

**MAHARAJA RANJIT SINGH STATE TECHNICAL UNIVERSITY,
DABWALI ROAD, BATHINDA-151001**

[Established by Govt. of Punjab vide Act No. 5 of 2015, UGC Act 2(f)]

DEAN ACADEMIC AFFAIRS

www.mrsstu.ac.in Ph. 08725072488, 01642284298, 09417628270 daa.mrsstu@gmail.com

Ref. No.: DAA/MRSSTU/200

Date: 09.03.2016

Your Ref. No.: NIL

Date: NIL

REVISED

SUBJECT: MRSSTU 1st ACADEMIC COUNCIL MEETING ON 11.3.2016

To

- 1. Dr. (Prof.) Mohan Paul Singh Isher,** **Chairman**
Vice-Chancellor, MRSSTU, Bathinda,
vcmrstu@gmail.com
- 2. Dr. (Prof.) Paramjeet Singh,** **Member**
Dean Faculty (Engineering & Technology),
Former Professor of Chemical Engineering & Former Registrar, Panjab University
Chd., Former Registrar, Adesh University, Bathinda. H. No. 2921, Phase-7, Mohali.
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- 3. Dr. B.S. Ghuman,** **Member**
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- 4. Prof. Sanjeev Kumar Sharma,** **Member**
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Sector-14, Chandigarh.
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- 5. Prof. Subodh Kumar,** **Member**
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FNASc, Department of Chemistry, Guru Nanak Dev University, Amritsar-143005.
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- 6. Dr. Meenakshi Malhotra,** **Member**
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Director, University Institute of Hotel & Tourism Management, Panjab University,
Sector-14, Chandigarh-160014.
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- 7. Prof. Karamjit Singh Chahal,** **Member**
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- 8. Dr. (Prof.) Ashish Baldi,** **Member**
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 Principal & Professor, HOD, Deptt. of Quality Assurance, I.S.F. College of
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- 10. Director,** **Member**
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- 12. Director,** **Member**
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- 14. Director,** **Member**
 Shaheed Bhagat Singh State Technical Campus, Moga Road, NH-95, Ferozepur.
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- 15. Principal,** **Member**
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- 16. Principal,** **Member**
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- 19. Principal,** **Member**
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- 20. Principal,** **Member**
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- 23. Director,** **Member**
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President, Punjab State Agricultural Implements Manufacturers' Association, Industrial Area-B, Partap Nagar, St. No. 9, Ludhiana-141003 or his Nominee
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- 25. Dr. S.S. Marwaha,** **Member**
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- 26. Sh. Sanjeev Nagpal,** **Member**
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- 28. Dean Academic Affairs,** **Special Invitee**
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- 29. Dean College Development Council,** **Special Invitee**
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- 30. Dean R&D,** **Special Invitee**
MRSSTU, Bathinda

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- 31. Dean Students Welfare,** **Special Invitee**
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- 33. Registrar,** **Member-Secretary (Ex-Officio)**
MRSSTU, Bathinda,
(Ph. 08872500251) reg@mrsstu.ac.in

Sir/Madam,

It is to inform you that 1st MRSSTU Academic Council Meeting has been scheduled on 11/03/2016 at 10.30 AM in Committee Room of Maharaja Ranjit Singh State Technical University (MRSSTU), Dabwali Road, Bathinda. You are requested to make it convenient to attend this meeting. You are further requested to confirm your availability to attend this meeting and travel plan by email. TA/Honourarium will be paid as per MRSSTU, BTI norms. Agenda of the meeting is attached.

**Dr. (Prof.) GURSHARAN SINGH,
DEAN ACADEMIC AFFAIRS, MRSSTU, BTI**

Copy to

- 1) PA to Hon'ble Vice Chancellor MRSSTU, Bathinda for Information Please
- 2) Registrar MRSSTU, Bathinda
- 3) Assistant Registrar Accounts, MRSSTU, Bathinda.

MAHARAJA RANJIT SINGH STATE TECHNICAL UNIVERSITY,
DABWALI ROAD, BATHINDA-151001

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Ref. No.: DAA/MRSSTU//98

Date: 08.03.2016

Your Ref. No.: NIL

Date: NIL

SUBJECT: MRSSTU 1st ACADEMIC COUNCIL MEETING ON 30.11.2015

To

1. **Dr. (Prof.) Mohan Paul Singh Isher, Chairman**
Vice-Chancellor, MRSSTU, Bathinda,
vcMrsstu@gmail.com
2. **Dr. (Prof.) Paramjeet Singh, Member**
Dean Faculty (Engineering & Technology),
Former Professor of Chemical Engineering & Former Registrar, Panjab University
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31. Dean Students Welfare,

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Special Invitee

32. Registrar, Member-Secretary (Ex-Officio)

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(Ph. 08872500251) reg@mrsstu.ac.in

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**MAHARAJA RANJIT SINGH
STATE TECHNICAL UNIVERSITY, BATHINDA**

(Established by Govt. of Punjab under Punjab Act 5 of 2015 and UGC Act 2 (f))

**AGENDA
1ST ACADEMIC COUNCIL MEETING**

VENUE: COMMITTEE ROOM

DATE: 11-03-2016

TIME: 10:30 A.M.

**INDEX & PREAMBLE - MRSSTU 1ST ACADEMIC COUNCIL MEETING
(11.03.2016)**

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01.04	To report MRSSTU Ph.D. Regulations -2015 approved in 1 st Deans of Faculties Meeting held on 4.11.2015	01	IV (88-112)
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**INDEX & PREAMBLE - MRSSTU 1ST ACADEMIC COUNCIL MEETING
(11.03.2016)**

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01.19	To approve the Proposed Minimum Eligibility Criteria for 2016-17 Batch Admissions	05	XIV (174-194)
01.20	To approve the Proposed Nomenclature System of Student University Registration Number	06	XV (195-196)
01.21	To approve the Proposed Codes of Programmes & Courses	06	XVI (197-201)
01.22	To discuss and approve the Proposed MRSSTU Migration Rules-2016	06	XVII (202-205)
01.23	To ratify the Academic Calendar notified for the year 2016	06	XVIII (206)
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(11.03.2016)**

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01.34	To inform Reservation Policy/PET Fee Concession and Fee for SC/ST Ph.D. Candidates	09	---
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**INDEX & PREAMBLE - MRSSTU 1ST ACADEMIC COUNCIL MEETING
(11.03.2016)**

I. PREMBLE:

The Maharaja Ranjit Singh State Technical University, Bathinda is a new affiliating Technical University, established by Govt. of Punjab vide Punjab Act No. 5 of 2015 notified through Punjab Government Gazette-Extraordinary (Regd. No. CHD/0092/2015-2017) notification No. 5-Leg./2015 dated 12th February 2015 and registered with UGC u/s 2(f) (**APPENDIX-A**).

The objectives of this new Technical University are to provide, upgrade and promote Quality Technical Education, Training and Research in Technical Education to create entrepreneurship and a conducive environment for the pursuit of Technical Education in close cooperation with industry. In the pursuit of creating excellence in Teaching, Research and Skill Development, the University has to attain highest standards by following and conforming to norms/standards policies laid down by the All India Council for Technical Education, New Delhi, University Grants Commission, New Delhi. As an outcome of the above endeavors, the University is expected to generate and maintain resources through consultancy services, testing services, continuing education programmes, national and international collaborations, transfer of intellectual property rights, etc.

MRSSTU will cater to the needs of Technical Education of students of eleven districts. They will have easier and cheaper access to technical education near to their native places. This will help in alleviating financial constraints on their parents and building confidence in them in terms of safety, security, reliability and accessibility.

This University is committed to get accreditation for its Programmes from National/International Bodies, which is not possible without the active participation and support of stake holders. So, The Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) always seeks suggestions, guidance and support to improve its functioning and upgrade its standards in technical education.

II. TERRITORIAL JURISDICTION:

Consequent on the implementation of this Act, Technical Institutions of Eleven Districts of Punjab have been affiliated to MRSSTU with effect of 1st July, 2015: Barnala, Bathinda, Faridkot, Fatehgarh Sahib, Fazilka, Ferozepur, Mansa, Moga, Patiala, Sangrur and Sri Muktsar Sahib.

III. CONSTITUTION OF MRSSTU BOARD OF GOVERNORS:

Consequent upon the establishment of The Maharaja Ranjit Singh State Technical University, Bathinda, Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda was formed as per point 13 of MRSSTU Act (**APPENDIX-A**).

IV. CONSTITUTION OF MRSSTU ACADEMIC COUNCIL:

Consequent upon the establishment of The Maharaja Ranjit Singh State Technical University, Bathinda, Academic Council was formed as per point 14 of MRSSTU Act and the same was approved vide item no. 1.2 of Board of Governors

**INDEX & PREAMBLE - MRSSTU 1ST ACADEMIC COUNCIL MEETING
(11.03.2016)**

Meeting. Constitution of MRSSTU Academic Council and its main functions are summarized in **APPENDIX-B**.

V. CONSTITUENT COLLEGES OF MRSSTU:

1. Giani Zail Singh Campus College of Engineering & Technology, Bathinda,
2. Punjab Institute of Technology, Nandgarh, District Bathinda,
3. Punjab Institute of Technology, GTB Garh Moga,
4. Punjab Institute of Technology, Rajpura, District Patiala,
5. Punjab Institute of Technology, Mansa,
6. Punjab Institute of Technology, Arniwala, District Ferozepur

ITEM NO. 01.01 TO REPORT VISION & MISSION OF MAHARAJA RANJIT SINGH STATE TECHNICAL UNIVERSITY, BATHINDA

Vision and Mission of Maharaja Ranjit Singh State Technical University, Bathinda has been discussed in 1st and 2nd Meeting of Board of Governors of the University. On the directions of the Board of Governors, Vision and Mission has been uploaded on University website for comments and suggestions, but no comments and suggestions have been received by the University (APPENDIX-I, Page 13).

The matter is placed before the Academic Council for information.

ITEM NO. 01.02 TO REPORT THE CONSTITUTION & NOTIFICATION OF 7 FACULTIES

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 2nd Meeting held on 07-09-2015 vide agenda item no. 2.20, the 7 Faculties have been constituted and Deans appointed for a period of two years (01.10.15 to 30.09.17) vide notifications dated 7.10.2015 (APPENDIX-II, Pages 14-34).

The matter is placed before the Academic Council for information.

ITEM NO. 01.03 TO REPORT THE CONSTITUTION & NOTIFICATION OF 26 BOARDS OF STUDIES

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 2nd Meeting held on 07-09-2015 vide agenda item no. 2.19, the 26 Board of Studies have been constituted for a period of two years (01.10.15 to 30.09.17) have been notified vide notifications dated 7.10.2015 (APPENDIX-III, Pages 35-87).

The matter is placed before the Academic Council for information.

ITEM NO. 01.04 TO REPORT MRSSTU Ph.D. REGULATIONS -2015 APPROVED IN 1ST DEANS OF FACULTIES MEETING HELD ON 4.11.2015

MRSSTU Ph.D. Regulations-2015 have been discussed and approved in the 1st Deans of Faculties Meeting held on 4.11.2015 and notified vide notification no. 45 dated 15.12.2015 (APPENDIX-IV, Pages 88-112). These have been uploaded on University website.

The matter is placed before the Academic Council for information & suggestions.

ITEM NO. 01.05 TO RATIFY CONSTITUTION & NOTIFICATION OF UNIVERSITY RESEARCH BOARD (URB)

University Research Board has been constituted and notified vide notification no. 50 dated 8.2.2016 (APPENDIX-V, Pages 113-114).

The matter is placed before the Academic Council for suggestions/ratification.

ITEM NO. 01.06 TO RATIFY THE Ph.D. FEE STRUCTURE NOTIFIED

Investigator will be eligible to continue as Supervisor/Principal Investigator when period left for superannuation is less than 02 years.

The matter is placed before the Academic Council for suggestions/approval.

ITEM NO. 01.11 TO APPROVE MINIMUM ELIGIBILITY REQUIREMENTS NEEDED FOR A DEPARTMENT TO ACT AS APPROVED UNIVERSITY RESEARCH CENTRE

University shall develop its Constituent Institutes toward becoming an effective resource of learning for the Ph.D. students. However, to impart them quality research environment and facilities, desirable resource requirements have been proposed for allocating MRSSTU Approved University Research Center (URC) Status to a particular School/Department in an Affiliated Institute after deliberations with various Deans of Faculties (APPENDIX-VIII, Pages 124-125).

The matter is placed before the Academic Council for suggestions/approval.

ITEM NO. 01.12 TO APPROVE Ph.D. COURSE WORK EVALUATION PATTERN AND CURRICULUM TO BE FOLLOWED BASED ON PERCENTAGE SYSTEM RATHER THAN ON CREDIT SYSTEM, UNTIL NEW CURRICULUM BASED ON CREDIT SYSTEM IS IMPLEMENTED

Since Credit Based Ph.D. Course Curriculum and PG level (M.Tech./M.Sc. etc) Curriculum Scheme are yet to be finalized, so it is proposed that the currently running MRSSTU's PG Course Work Scheme and Evaluation based on percentage should be followed till the implementation of Credit Based System.

The matter is placed before the Academic Council for suggestions/approval.

ITEM NO. 01.13 TO APPROVE REMUNERATION FOR Ph.D. ENTRANCE TEST QUESTION PAPER SETTER

Ph.D. Entrance Test PET remuneration for setting Question Papers along with providing Answer Keys need to be decided. It is proposed as Rs 30 per question. As PET shall be of 60 questions, remuneration shall be Rs. 3,000/- Along with it is proposed that lump sum amount of Rs 300/- be paid as contingency/ postal/ stationary expenses. Minimum Three Question Papers per discipline are proposed to be set, out of which one at random shall be selected.

The matter is placed before the Academic Council for suggestions/approval.

ITEM NO. 01.14 TO APPROVE PATTERN OF PET QUESTION PAPER, MAXIMUM TIME ALLOWED AND NO OF QUESTIONS

ITEM NO. 01.18 TO APPROVE THE PROPOSED CHOICE BASED CREDIT SYSTEM

Choice Based Credit System -2016 has been proposed for all Programmes for July 2016 Batch and onwards (APPENDIX-XIII, Pages 165-173).

The matter is placed before the Academic Council for suggestions/approval.

ITEM NO. 01.19 TO APPROVE THE PROPOSED MINIMUM ELIGIBILITY CRITERIA FOR 2016-17 BATCH ADMISSIONS

Minimum Eligibility Criteria-2016 for admissions to various Programmes has been proposed for July 2016 Batch and onwards (APPENDIX-XIV, Pages 174-194).

The matter is placed before the Academic Council for suggestions/approval.

ITEM NO. 01.20 TO APPROVE THE PROPOSED NOMENCLATURE SYSTEM OF STUDENT UNIVERSITY REGISTRATION NUMBER

A Nomenclature System has been proposed to identify all the students to be admitted in Affiliated/Constituent Colleges/Main Campus of MRSSTU by an alphanumeric unique ID consisting of 13 characters, known as MRSSTU Student Registration Number (APPENDIX-XV, Pages 195-196). This number will be the same throughout the Programme of study of a student. This number consists of 13 characters, which will reveal,

- a) The Year of Admission,
- b) Affiliated College/Constituent College/Main Campus, where the student has been admitted,
- c) Level of Programme: PG, UG, Post Graduate diploma, Certificate,
- d) Programme in which student has been admitted

The matter is placed before the Academic Council for suggestions/approval.

ITEM NO. 01.21 TO APPROVE THE PROPOSED CODES OF PROGRAMMES & COURSES

Programme Codes have been proposed (APPENDIX-XVI, Pages 197-201).

The matter is placed before the Academic Council for suggestions/approval.

ITEM NO. 01.22 TO DISCUSS AND APPROVE THE PROPOSED MRSSTU MIGRATION RULES-2016

Following Migration Rules are proposed to be implemented from the 2016-17 Academic Session (APPENDIX-XVII, Pages-202-205).

The matter is placed before the Academic Council for suggestions/approval.

constituted for a period of one year, i.e. Academic Year 2015-16 (APPENDIX-XXII, Page 221).

The matter is placed before the Academic Council for suggestions/ratification.

ITEM NO. 01.28 TO DISCUSS AND APPROVE MRSSTU READMISSION RULES-2016 AFTER A GAP

Appended Readmission Rules are proposed to be implemented from the 2016-17 Academic Session (APPENDIX-XXIII, Pages 222-223).

The matter is placed before the Academic Council for suggestions/approval.

ITEM NO. 01.29 TO APPROVE INTERPRETATION COMMITTEE

An Interpretation Committee has been constituted to interpret and to give recommendations, in case any doubt/conflict arises in the interpretation of any of the Academic Regulations of MRSSTU, Bathinda. The matter will be referred by the Vice Chancellor to the Interpretation Committee for its interpretation. Final decision lies with the Vice Chancellor (APPENDIX-XXIV, Page 224).

The matter is placed before the Academic Council for suggestions/approval.

ITEM NO. 01.30 TO RATIFY STUDY SCHEME & SYLLABUS FOR 1ST YEAR 2015 BATCH STUDENTS OF MRSSTU, BATHINDA NOTIFIED VIDE NOTIFICATION NO. 41 DATED 23.10.2015

Consequent upon the decision of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 1st Meeting held on 15-06-2015, it was decided that the Study Scheme & Syllabus of IKG PTU, Jalandhar shall be followed for 1st Year students admitted in 2015 for all Courses throughout the Degree and notified vide notifications no. 41 dated 23.10.2015 (APPENDIX-XXV, Page 225).

The matter is placed before the Academic Council for ratification.

ITEM NO. 01.31 TO APPROVE B.TECH. 1ST YEAR STUDY SCHEME FOR 2016 BATCH & ONWARDS

B.Tech. 1st Year Study Scheme for 2016 Batch & onwards has been proposed (APPENDIX-XXVI, Pages 226-227).

The matter is placed before the Academic Council for suggestions/approval.

ITEM NO. 01.32 TO APPROVE STARTING OF B.SC. (NM) CO-EDUCATIONAL COURSE AT PIT MANSA

It is proposed that Co-educational B.Sc. in Non-Medical stream with 30 seats may be started in PIT, Mansa. Also the said course is as per the demand of the area. No. of seats may be increased up to 60 after getting the response from the area.

**ITEM NO. 01.37 TO EMPOWER THE VICE CHANCELLOR TO TAKE DECISIONS
IN CASE OF ANY URGENT MATTER**

It is proposed to empower Vice Chancellor to take decisions on urgent matters which will be put up before next Academic Council Meeting for ratification.

The matter is placed before the Academic Council for approval.

NOTE:

Any other Agenda item can be discussed with the permission of the Chair.

Government of Punjab
Department of Technical Education & Industrial Training
(Technical Education-2 Branch)

NOTIFICATION

No. 13/4/2015 - 2TE2 491910/A

Dated 25/5/15

In the pursuance of the provision of Sub-Section (2),(3) and (5) of Section 13 of The Maharaja Ranjit Singh State Technical University, Act 2014 (Punjab Act no 5 of 2015), the Governor of Punjab and Chancellor, Maharaja Ranjit Singh State Technical University, Bathinda is pleased to appoint first Board of Governor of the Maharaja Ranjit Singh State Technical University, Bathinda as under, for a period of three years:

- A Chairman: Chief Secretary, Govt. of Punjab
- B Vice Chairman: Principal Secretary, Govt. of Punjab, Department of Technical Education and Industrial Training.
- C Ex-officio Members:
- i) Vice-Chancellor, Maharaja Ranjit Singh State Technical University, Bathinda;
 - ii) Vice-Chancellor, I K Gujral, Punjab Technical University, Jalandhar;
 - iii) Secretary to Government of Punjab, Department of Finance;
 - iv) Director Technical Education & Industrial Training, Punjab;
 - v) Chairman of the North-West Committee, All India Council for Technical Education, Chandigarh;
 - vi) President of the Confederation of Indian Industry or his nominee;
 - vii) Director of Indian Institute of Technology, Ropar.
- D Nominated Members
- (i) Two eminent industrialists:
 - a. Sh. Rajinder Gupta, Managing Director
Trident Group of Industries, Barnala Sangrur,
 - b. Sh. Rajinder Kumar Mittal, Chairman & Managing Director,
M/s. BCI, Industries and Infrastructures Ltd, Bathinda.
 - (ii) Two eminent technologists:
 - a. Dr. S.K. Salwan, Former Vice Chancellor, I K Gujral Punjab Technical University & Chairman, Armament Research Board, New Delhi.
 - b. Sh. Chandra Mohan, Formerly Vice-Chairman & MD, Punjab Tractors & Swaraj Group.

(iii) One principal of the college by rotation

Dr. J.S. Hundal, Campus Director, Giani Zail Singh, PTU Campus,
Bathinda

(iv) One head of the department by rotation from amongst the heads of the departments of the university

Will be nominated after the establishment of the departments of the University.

Dat-3, Chandigarh, the
08-5-2015

M.P. Singh, IAS
Principal Secretary to Govt. of Punjab,
Department of Technical Education
& Ind. Training, Punjab.

No - 13/4/2015 - ATE 2

Dated

A copy is forwarded to the Controller, Printing & Stationary, Punjab, Chandigarh with the request to publish this Notification in Punjab Government Gazette (Extra ordinary) and send 100 copies to this department.

Sd/-
Special Secretary to Govt. of Punjab,
Department of Technical Education
& Ind. Training, Punjab.

No - 13/4/2015 - ATE 2

Dated

A copy is forwarded to the following for information and necessary action:-

- 1 The Principal Secretary to H.E. Governor of Punjab and Chancellor of Maharaja Ranjit Singh State Technical University, Bathinda.
- 2 The Principal Secretary to Chief Minister, Punjab for kind information of Hon'ble Chief Minister, Punjab

Sd/-
Special Secretary to Govt. of Punjab,
Department of Technical Education
& Ind. Training, Punjab.

**Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.**

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref No : VC/Notification/02

Dated : 26/06/15

NOTIFICATION

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda in its 1st meeting held on 15-06-2015 vide agenda item no. 1.2, the constitution of Academic Council is as under:

S. N.	Nomenclature	Designation	Proposed Academic Council
1.	The Vice-Chancellor:	Chairman	Vice-Chancellor, Maharaja Ranjit Singh State Technical University, Bathinda-151001(Pb.)
2.	The Dean of Faculties:	Member (One Member)	1. Dean Faculty (Engineering & Technology)
			2. Dean Faculty (Pharmacy)
			3. Dean Faculty (Commerce & Business Management)
			4. Dean Faculty (Sciences)
			5. Dean Faculty (Hospitality & Tourism Management)
			6. Dean Faculty (Architecture & Planning)
			7. Dean Faculty (Humanities & Social Sciences)
3.	The Heads of the Departments/Schools of the University:	Members	1. Director/Head of Departments/Schools of the
			2. University and Constituent Colleges/Campuses
			3.
			4.
4.	The Principals of ten Colleges affiliated to the University by rotation (Provided that no Principal shall be nominated again unless all others have been nominated at least once):	Members	1. Director, Shaheed Bhagat Singh State Technical Campus, Moga Road, NH-95, Ferozepur-160014 (Punjab)
			2. Principal, Malout Institute of Management & Information Technology, Malout-152107 (Punjab)
			3. Principal, Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib (Punjab)
			4. Principal, Guru Teg Bahadur Khalsa Institute of Engineering & Technology, Chhapiawali, Malout, Sri Muktsar Sahib(Punjab)
			5. Principal, Gurukul Vidyapeeth Institute of Engineering & Technology, Chandigarh-Patiala Highway, Ramnagar, Rajpura, Patiala (Punjab)
			6. Principal, Indo Soviet Friendship College of Pharmacy, GT Road, Moga (Punjab)
			7. Principal, Lala Lajpat Rai College of Pharmacy, Moga (Punjab)
			8. Principal, Bhai Gurdas Institute of Management and Technology, Main Patiala Road, Sangrur-148001 (Punjab)

			9. Principal, RIMT-Institute of Management & Computer Technology, Mandi Gobindgarh-147301 (Punjab)
			10. Principal, Baba Hira Singh Bhattal Institute of Engineering & Technology, Sunam-Jakhial Road, Lehragaga, Sangrur-148031(Punjab)
5.	Two Eminent Industrialists (to be nominated by the Board):	Members	1. S. Karnail Singh Gharial, President, Punjab State Agricultural Implements Manufacturers' Association or his nominee 2. Dr. S.S.Marwaha, CEO, Biotechnology Incubator, Punjab, Ludhiana.
6.	Two Eminent Technologists(to be nominated by the Board):	Members	1. Sh. Sanjeev Nagpal, Sampurn Agri Ventures Pvt. Ltd. (SAVPL), Panchkula (Haryana). 2. Sh. Prabh Dass, MD and CEO, HMEL, Guru Gobind Singh Refinery, Bathinda or his nominee.
7.	Registrar, MRSSTU, Bathinda	Secretary (Ex-Officio)	

Endst. No. 244 to 265

Vice Chancellor

Dated: 03-07-15

A copy of the above is forwarded to the following for information and necessary action:-

1. Hon'ble Chief Secretary, Govt. of Punjab and Chairman, Maharaja Ranjit Singh State Technical University, Bathinda.
2. All concerned.

Vice Chancellor

MAHARAJA RANJIT SINGH STATE TECHNICAL UNIVERSITY, BATHINDA**VISION**

To contribute towards the state, the nation and the world through advancement for attaining excellence in technical education and research, and to provide quality human resource having high professional and ethical conduct to serve the needs of the industry and society

MISSION

- To provide a conducive and inspiring environment for promoting advancement in technology and research by fostering freedom, empowerment, commitment, creativity and innovation
- To provide competent and highly skilled professionals and entrepreneurs to meet the requirements of the industry and society for discovery and dissemination of knowledge
- To inculcate high moral, ethical and professional values and standards amongst the students.
- To promote research and development in various fields of technical education and establishment of Centres of Excellence in collaboration with national and international institutions, industries and agencies

APPENDIX-II

**Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.**

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref. No : Notification/ 34Dated : 07-10-15**NOTIFICATION****FACULTY OF ARCHITECTURE & PLANNING**

(01.10.15 to 30.09.17)

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.20, the following **Faculty of Architecture & Planning** is hereby constituted for a period of two years (01.10.15 to 30.09.17).

Sr. No	Nomenclature	Name & Address	Designation
01	Dean, Faculty	Prof. Karanjit Singh Chahal, Head, Department of Architecture, GND University, Asr (Ph. 9417107403) kschahal@rediffmail.com	Chairman
02	All Heads of Depths of various branches of the Faculty in Univ.	1. Ar. Bhuphinder Pal Singh, Head, GZS Campus CET, Bathinda (Ph. 8872500267, 9417755569) hpaldhot@hotmail.com	Member
03	All Professors in Faculty From University Depths. constituent College /affiliated Colleges	1. Dr. Prabhjot Kaur, Professor, GZS Campus CET, Bathinda (Ph. 9780811342) pkaurdap@gmail.com 2. Ar. Ambrish K. Gupta, Principal, RIMT- College of Arch., Mandi Gobindgarh. 3. Ar. Kanwaljit Inder Singh Virdi, Prof., RIMT-College of Arch., Mandi Gobindgarh. 4. Ar. Kanchan, Professor, RIMT-College of Arch., Mandi Gobindgarh. 5. Ar. Renu Saigal, Principal, Surya Educational & Charitable Trust Group of Inst., School of Arch., Shambhu, Rajpura. 6. Ar. Gian Chand Aggarwal, Prof., RIMT- College of Arch., Mandi Gobindgarh.	Members
04	Two Associate Professors by seniority by	1. Ar. Ranjeet Kaur, Associate Professor, GZS Campus CET, Bathinda (Ph. 9988486889) ranjeetkjohnal@yahoo.co.in	

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	period of 2 years from Univ. Depts./constituent College/affiliated College	2. Ar. Ripu Daman Singh, Associate Professor, GZS Campus CET, Bathinda (Ph. 8872500273, 9815222335) ripu_guinder@yahoo.co.in	
05	Two Assistant Professors by seniority by rotation for a period of 2 years from Univ. Depts./constituent College/affiliated College	1. Ar. Avinash Singh, Assistant Professor, GZS Campus CET, Bathinda (0164-2294933) asingharch@gmail.com 2. Ar. Vijay Lewis Christopher, RIMT-College of Arch., Mundi Gobindgarh	
06	In case any branch is not represented above in the Faculty by a representative from affiliated Colleges, then add here upto two HODs from affiliated Colleges in the concerned branch by rotation	-NIL-	
07	One expert in each branch from outside Univ.	1. Dr. Gaurav Raheja, Associate Professor, IIT Roorkee, Uttarakhand. (Ph. 01332-285709) gruleslap@iitr.ac.in	

The major functions of each Faculty shall be to supervise, discuss and decide on all matters pertaining to courses of studies, teaching schemes and other academic matters falling in their respective fields.

Endst. No. 4214

Dated: 19/10/15

Sd/-
Registrar

A copy of the above is forwarded to the following for information & record please.

1. All concerned,
2. PS to Vice-Chancellor,
3. Dean Academic Affairs,
4. Director College Development Council

Abhishek
19/10/15
Deputy Registrar (Admn.)

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**Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.**

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref. No : Notification/ 35

Dated : 07-10-15

NOTIFICATION

FACULTY OF COMMERCE & BUSINESS MANAGEMENT

(01.10.15 to 30.09.17)

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.20, the following Faculty of Commerce & Business Management is hereby constituted for a period of two years (01.10.15 to 30.09.17).

Sr. No	Nomenclature	Name & Address	Designation
01	Dean, Faculty	Prof. Sanjeev Kumar Sharma, Director, University Institute of Applied Management Sciences, Panjab University, Sector-14, Chd. (Ph. 9814487217) uiams@pu.ac.in	Chairman
02	All Heads of Depts of various branches of the Faculty in the University	1. Ms. Suman Kathuria, Head, Dept. of Management Studies, GZS Campus CET, Bathinda (Ph. 8872500270) suman_kathuria@yahoo.co.in	Member
03	All Professors in Faculty From University Depts. constituent College/affiliated Colleges	1. Dr. Manvinder Tandon, Director & Prof., RIMT Institute of Management and Computer Tech. 2. Dr. Guninderjit Singh, Professor, Bhai Gurdas Institute of Management & Tech, Sangrur. 3. Dr. Janardhanan K. P, Professor, Bhai Gurdas Institute of Management & Tech., Sangrur. 4. Dr. Suvreet Kaur Jawandha, Professor, Bhai Gurdas Institute of Mangt. & Tech., Sangrur. 5. Dr. Ajay Prasher, Professor, Bahra Group of Institutions, Bhedpura (Patiala) 6. Dr. Anshu Kataria, Aryans Business School, Nephra-Thuha, Rajpura (Patiala) 7. Dr. Adarshpreet Mehra, Professor, Lala Lajpat Rai Institute of Engg. & Tech., Moga. 8. Dr. Gaurav Bakshi, Professor, North West Institute of Engg. & Tech., Dhudike, Moga. 9. Dr. Sarwesh Chandra Sinha, Professor, North West Institute of Engg. & Tech., Dhudike, Moga.	Member

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		<p>10. Dr. Nceraj Sharma, Professor, Gian Jyoti Group of Colleges, Banur.</p> <p>11. Dr. P. Parkash Arya, Professor, Dr IT Business School, Jalandpur (Patiala)</p> <p>12. Dr. Sunandha Ghosh, Professor, Dr IT Business School, Jalandpur (Patiala)</p> <p>13. Dr. C.H. Pandey, Professor, Ferozepur Institute of Management, Ferozepur.</p> <p>14. Dr. Vikas Jain, Professor, Ferozepur Institute of Management, FZP.</p> <p>15. Dr. Surindar Singh, Professor, RIMT Institute of Management and Computer Tech., Mandi Gobindgarh.</p> <p>16. Dr. Sham Lal Bhardwaj, Professor, RIMT Institute of Management and Computer Tech., Mandi Gobindgarh.</p> <p>17. Dr. Kawal Parmar, Professor, Centre for Management Studies, Ramnagar, Patiala.</p> <p>18. Dr. N.K. Maheshwary, Professor, North West Group of Institutions, Moga.</p>	
04	Two Associate Professors by seniority by rotation for a period of 2 years from Univ. Depts/ constituent College/affiliated College	<p>1. Dr. Manish Bansal, Associate Professor, Dept. of Management, MIMIT, Malout (Ph. 9356937037) bansal_mimit@yahoo.com</p> <p>2. Dr. Raminder Pal Singh, Associate Professor, SBSSTC, Ferozepur (Ph. 8054011077) rpsinghromy@gmail.com</p>	Members
05	Two Assistant Professors by seniority by rotation for a period of 2 years from Univ. depts./ constituent College/ affiliated College	<p>1. Mr. Ajay Samyal, Assistant Professor, Dept. of Management, MIMIT, Malout (Ph. 8427103077) aksamyal@gmail.com</p> <p>2. Dr. Sukhwinder Kaur Dhanda, Assistant Professor, Dept. of Management, BBSB Engg. College, Fatehgarh Sahib subkhwinder.dhanda@bbsbec.ac.in</p>	Members
06	In case any branch is not represented above in the Faculty by a representative from affiliated Colleges, then	-NIL-	Members

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	add here upto two HODs from affiliated Colleges in the concerned branch by rotation		
07	One expert in each branch from outside University.	1. Dr. S.P. Bansal, Vice-Chancellor, Maharaja Agrasen University, Atal Kunj, Baddi (HP) info@mau.ac.in	Members

The major functions of each Faculty shall be to supervise, discuss and decide on all matters pertaining to courses of studies, teaching schemes and other academic matters falling in their respective fields.

Endst. No. 4363

Dated: 19/10/15

Sd/-
Registrar

A copy of the above id forwarded to the following for information & record please.

1. All concerned,
2. PS to Vice-Chancellor,
- ✓ 3. Dean Academic Affairs,
4. Director College Development Council

Abhilash
07/10/15
Deputy Registrar (Admn.)

Maharaja Ranjit Singh State Technical University, Bathinda
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(5/21)

**Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.**

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref. No : Notification/ 23

Dated : 07-10-15

NOTIFICATION

**FACULTY OF ENGINEERING & TECHNOLOGY
(01.10.15 to 30.09.17)**

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.20, the following Faculty of Engineering & Technology is hereby constituted for a period of two years (01.10.15 to 30.09.17).

Sr. No	Nomenclature	Name & Address	Designation
01	Dean, Faculty	Prof.(Dr.) Paramjeet Singh, H. No. 2921, Phase-7, Mohali (Ph. 9814469688) pjsingh8399@gmail.com	Chairman
02	All Heads of Dept. of various branches of the faculty in the University	<ol style="list-style-type: none"> 1. Er. Gurpreet Singh Bath, Head, Dept. of Civil Engineering, GZS Campus CET, Bathinda (Ph. 9417171710) gpsbath66@gmail.com 2. Er. Abhilasha Jain, Head, Dept. of Computer Sc & Engg, GZS Campus CET, Bathinda (Ph. 8872500274) ese.gzscet@gmail.com 3. Dr. Jyoti Saxena, Head, Dept. of Electr. & Comm. Engg, GZS Campus CET, Bathinda (Ph. 8872500262) eceptugza@gmail.com 4. Mr. Surinder Singh, Head, Dept. of Mech. Engg, GZS Campus CET, Bathinda (Ph. 8872500264) barnalass17@yahoo.com 5. Dr. Rajeev Kumar Varshney, Head, Dept. of Textile Engineering, GZS Campus CET, Bathinda (Ph. 8872500271) textilegzscetbti@gmail.com 6. Dr. Harminder Singh Bindra, Head, Dept. of Information Technology, MIMT Malout (Ph. 9872928828). 7. Er. Bhiwani Singh, Head, Dept. of Aeronautical Engineering, Gurukul Vidhyapeeth Institute of Engineering & Technology, Banur (Ph. 01762-264400) 8. Dr. Rajiv Arora, Head, Dept. of Chemical Engineering, Shaheed Bhagat Singh State 	Members

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		<p>Technical Campus, Moga Road, NH-95, Ferozepur-160014 (Punjab) (Ph. 9463385619) rjiv_fzr@yahoo.com</p> <p>9. Dr. Tanuja Srivastawa, Head, Dept. of Food Technology, Bhai Gurdas Institute of Engineering & Technology, Sangrur. (Ph. 9814847492)</p>	
03	All Professors in Faculty From University Depts. constituent College-affiliated Colleges	<p>1. Dr. Savina Bansal, Professor, Dept. of Electr. & Comm Engg. GZS Campus CET, Bathinda. (Ph. 8146600954) savina.bansal@gmail.com</p> <p>2. Dr. Rakesh Bansal, Professor, Dept. of Electr. & Comm. Engg. GZS Campus CET, Bathinda. (Ph. 9463000954) drakeshibansal@gmail.com</p> <p>3. Dr. Ashok K. Goel, Professor, Dept. of Electr. & Comm Engg. GZS Campus CET, Bathinda (Ph. 8872500259) ashokkgoyal@gmail.com</p> <p>4. Dr. Harsh Sadawarti, Professor, RIMT Institute of Engg. & Tech., Mandi Gobindgarh.</p> <p>5. Dr. K. R. Aggarwal, Professor, RIMT Institute of Engg. & Tech., Mandi Gobindgarh.</p> <p>6. Dr. Vikas Chawla, Professor, Dept. of Mech., Ferozepur College of Engg. Tech., Ferozepur.</p> <p>7. Dr. Sushil Garg, Professor, RIMT-Maharaja Aggarsane College, Mandi Gobindgarh.</p> <p>8. Dr. Suresh Chand Jain, Professor, Gurukul Vidyapeeth Institute of Engg. & Tech, Ramnagar, Patiala.</p> <p>9. Dr. Sudhakar Sharma, Professor, Gurukul Vidyapeeth Institute of Engg. & Tech, Ramnagar, Patiala.</p> <p>10. Dr. Rahul Malhotra, Professor, Dept. of Electronics & Communication Engg., Guru Teg Bhadur Khalsa Institute of Engg. & Tech. Chhapian Wali- Malout</p> <p>11. Dr. S.K. Kautish, Professor, Dept. of Computer Science Engineering, North West Institute of Engg. & Tech., Dhudike, Moga.</p> <p>12. Dr. Kewal S. Panesar, Professor, Dept. of Computer Science & Engineering, North West Institute of Engg. & Tech., Dhudike, Moga.</p> <p>13. Dr. Mohita, Professor, Dept. of Computer Science & Engineering, North West Institute of Engg. & Tech., Dhudike, Moga.</p> <p>14. Dr. Raja Singh Khela, Professor, Jasdev Singh Sandhu Institute of Engg. & Tech., Kauli, Patiala (Ph. 9915999446)</p>	Members

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	<p>15. Dr. D.S. Dhaliwal, Professor, Bharat Group of Colleges, Khera Khurd, Mansa.</p> <p>16. Dr. Dalbir Singh, Professor, Deptt. of Mechanical Engg., Bhai Maha Singh College of Engg. & Tech, Sri Muktsar Sahib.</p> <p>17. Dr. Manoj Mittal, Professor, Dept. of Production Engineering, Bhai Maha Singh College of Engg. & Tech, Sri Muktsar Sahib.</p> <p>18. Dr. S.S. Khurmi, Professor, Dept. of Computer Science & Engineering, Bhai Maha Singh College of Engg. & Tech, Sri Muktsar Sahib.</p> <p>19. Dr. R.P. Gupta, Professor, Bio-Tech., BIS Institute of Sciences & Tech., Gagra, Moga (Ph. 9878822104).</p> <p>20. Dr. M.S. Dhanju, Professor, Bio-Tech., BIS Institute of Institute of Sciences & Tech. Gagra, Moga.</p> <p>21. Dr. Amanpreet Singh Sethi, Professor, Dept. of Mechanical Engg., Baba Banda Singh Bhadur, Engg. College, Fatehgarh Sahib. (Ph. 9855043335) aps.sethi@bbsbec.ac.in</p> <p>22. Dr. J.S. Oberoi, Professor, Dept. of Mechanical Engg., Baba Banda Singh Bhadur, Engg. College, Fatehgarh Sahib (Ph. 9855567977) jaspreet.singh@bbsbec.ac.in</p> <p>23. Dr. Lakhvir Singh, Professor, Dept. of Mechanical Engg., Baba Banda Singh Bhadur, Engg. College, Fatehgarh Sahib. lakhvir.singh@bbsbec.ac.in</p> <p>24. Dr. Lakhwinder Singh, Professor, Dept. of Electrical Engg., Baba Banda Singh Bhadur, Engg. College, Fatehgarh Sahib (Ph. 9888174689) ishpreet.singh@bbsbec.ac.in</p> <p>25. Dr. Shankar Ramamoorthy, Professor, Dept. of Compute Science & Engineering, Bhai Gurdas Institute of Engg. & Tech., Sangrur.</p> <p>26. Dr. Sunita Rani, Professor, Dept. of Civil Engg., Bhai Gurdas Institute of Engg. & Tech., Sangrur.</p> <p>27. Dr. N.K. Deshmukh, Professor, Dept. of ECE, Bhai Gurdas Institute of Engg. & Tech., Sangrur.</p> <p>28. Dr. Pious Verma, Professor, Bhara Group of Institutions, Bhedpura (Patiala)</p>	
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		<p>29. Dr. Rajveer Singh, Professor, Dept. of Civil Engg., Akli Education & Research Society Group of Institutions, Goniana Jaitu Road, Goniana Mandi, Bathinda.</p> <p>30. Dr. Roli Mishra, Professor, Dept. of Electrical Engg., Akli Education & Research Society Group of Institutions, Goniana Jaitu Road, Goniana Mandi, Bathinda.</p> <p>31. Dr. Atul Khurana, Professor, Dept. of Computer Science & Engineering, Aryabhata Group of Institutes, Cheema Jodhpur, Barnala.</p> <p>32. Dr. S.K. Mahla, Professor, Dept. of Mech., Adesh Institute of Engg. & Tech. Faridkot.</p> <p>33. Dr. Umesh Kumar Garg, Professor, IT, GTB Khalsa College Chhapianwali, Malout</p> <p>34. Dr. P.B. Mahapatra, Professor, Ghubaya College of Engg. & Tech., Sukhera Bodla, Jalandhar.</p> <p>35. Dr. Swaranjit Singh, Professor, Dept. of Electronics & Communication Engg., Desh Bhagat Foundation Group of Institutions, Moga.</p> <p>36. Dr. Malkiat Singh, Professor, Dept. of Electronics & Communication Engg., Desh Bhagat Foundation Group of Institutions, Moga.</p> <p>37. Dr. I.S. Dhaliwal, Professor, Dept. of Mechanical Engg., Desh Bhagat Foundation Group of Institutions, Moga.</p> <p>38. Dr. Manpreet Singh, Professor, Mech. Dept., Swami Vivekanand Institute of Engg. & Tech., Ram Nagar, Near Banur, Patiala.</p>	
04	Two Associate Professors by seniority by rotation for a period of 2 years from Univ. Depts./ constituent/ affiliated College	<p>1. Dr. Sanjiv Aggarwal, Associate Professor, Dept. of Civil Engineering, GZS Campus CET, Bathinda (Ph. 9478022281) sanjiv_aggarwal@rediffmail.com</p> <p>2. Dr. Balwinder Singh, Associate Professor, Dept. of Mechanical Engineering, GZS Campus CET, BTI (Ph. 8872500275) drlwssidhu07@gmail.com</p>	Members
05	Two Assistant Professors by seniority by rotation for a	<p>1. Mr. Dinesh Kumar, Assistant Professor, Dept. of CSE, GZS Campus CET, Bathinda (Ph. 9417060111) dk_scorpio@rediffmail.com</p>	Members

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	period of 2 years from Univ. Depts./ constituent/ affiliated College	2. Mr. Harish Kumar Garg, Assistant Professor, Dept. of Mechanical Engineering, GZS Campus CET, Bathinda (Ph. 8872500266) harish_k_garg@rediffmail.com	
06	In case any branch is not represented above in the Faculty by a representative from affiliated Colleges, then add here upto two HODs from affiliated Colleges in the concerned branch by rotation	1. Mr. Sublash Kumar, Dept. of Marine Engg., Gurukul Vidyapeeth Institute of Engg. & Tech., Banur. 2. Mr. Gaurav Kumar, Dept. of Petroleum Engg., Associate Professor, Gurukul Vidyapeeth Institute of Engineering & Technology, Banur	Members
07	One expert in each branch from outside University.	1. Dr. Kishori Lal, Professor, Aero Tech, PEC University of Technology, Chd. (Ph. 9815375469) kishorilal@pec.ac.in 2. Dr. Rafat Siddique, Sr. Professor, Civil, Thapar University, Patiala rsiddique@thapar.edu 3. Dr. Sushil Kumar Kansal, Professor, Chemical, UIET, PU, Chandigarh (Ph. 9876581564) sushilkk1@pu.ac.in 4. Dr. Rajesh Bhatia, Professor, CSE, PEC Technology Campus, Chandigarh (Ph. 0172-2753854) rbhatia@pec.ac.in 5. Dr. Neena Gupta, Professor, ECE, PEC Technology Campus, Chandigarh (Ph. 9815503245) neenagupta@pec.ac.in 6. Dr. K.S. Sandhu, Professor, EE, NIT, Kurukshetra (Ph. 01744233303) kjssandhu@rediffmail.com 7. Dr. Narpinder Singh, Professor, Dept. of Food Technology, GNDU, Amritsar (Ph. 9464777980) narpinders@yahoo.com 8. Dr. A.L. Sangal, Professor, IT, DAVIET, Jalandhar. 9. Mr. Gunchetan Singh, Marine Engg., Design Engineer, Bechtel India Pvt. Ltd., Flat 1160, Sec 15 Part 2, Gurgaon.	Members

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		10. Dr. Harmesh Kansal, Professor, ME, University Institute of Engineering and Technology, Chandigarh	
		11. Dr. S. Ghosh (Ex-Chairman), Professor, Textile Engg., NIT Jalandhar ghoshs@nitj.ac.in	

The major functions of each Faculty shall be to supervise, discuss and decide on all matters pertaining to courses of studies, teaching schemes and other academic matters falling in their respective fields.

Enclst. No. 4366

Dated: 19/10/15

Sd/-
Registrar

A copy of the above id forwarded to the following for information & record please.

1. All concerned,
2. PS to Vice-Chancellor,
- ✓ 3. Dean Academic Affairs,
4. Director College Development Council

[Signature]
Deputy Registrar (Admn.)

Maharaja Ranjit Singh State Technical University, Bathinda
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(11/2)

**Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.**

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref. No : Notification/ 37

Dated : 07-10-15

NOTIFICATION

FACULTY OF HOSPITALITY AND TOURISM MANAGEMENT

(01.10.15 to 30.09.17)

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.20, the following **Faculty of Hospitality & Tourism Management** is hereby constituted for a period of two years (01.10.15 to 30.09.17).

Sr. No	Nomenclature	Name & Address	Designation
01	Dean, Faculty	Dr. Meenakshi Malhotra, Director, University Institute of Hotel & Tourism Management, Panjab University, Sector-14, Chandigarh (Ph. 9888081002) meenmal@yahoo.com	Chairperson
02	All Heads of Depts of various branches of the Faculty in Univ.	1. Mr. Raghav Sharma, Head, Dept. of Airline Tourism & Hospitality Management, Desh Bhagat Foundation Group of Institutions Moga (Ph. 8284900263)	Member
03	All Professors in Faculty From University Depts. constituent College /affiliated Colleges	1. Mrs. Bharti Tyagi, Dr. Ambedkar Institute of Hotel Management, Sector 42-D, Chd. 2. Mr. T.K. Razhdann, Chandigarh College of Hotel Management.	Members
04	Two Associate Professors by seniority by rotation for a period of 2 years from Univ. Depts./ constituent College/affiliated College	1. Ms. Bhanu Vig, Sri Sukhmani Institute of Hotel Management, Dera Bassi.	Members
05	Two Assistant Professors by seniority by	1. Ms. Tarunvir Kaur, Assistant Professor, Desh Bhagat Foundation Group of Institutions, Moga.	Members

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	rotation for a period of 2 years from Univ. Depts./ constituent College/affiliated College	2. Mr. Arun Singh Thakur, Assistant Professor, UIHMT, Punjab University, Chandigarh (Ph. 9465226116) arunthakur@pu.ac.in 3. Mr. Ranjit Singh, Assistant Professor, Desh Bhagat Foundation Group of Institutions Mega. 4. Mr. Gurdyal Singh Sidhu, Assistant Professor, Surya Educational & Charitable Trust Group of Institutions, Shambhu, Rajpura	
06	In case any branch is not represented above in the Faculty by a representative from affiliated Colleges, then add here upto two HODs from affiliated Colleges in the concerned branch by rotation	-NIL-	Members
07	One expert in each branch from outside University.	1. Ms. Meenakshi Malhotra, Principal, UIHMT, Punjab University, Chandigarh Ph. 9888081002) uihmt@pu.ac.in	Member

The major functions of each Faculty shall be to supervise, discuss and decide on all matters pertaining to courses of studies, teaching schemes and other academic matters falling in their respective fields.

Endst. No. 4369

Dated: 19/10/13

Sd/-
Registrar

A copy of the above is forwarded to the following for information & record please.

1. All concerned,
2. PS to Vice-Chancellor,
- ✓ 3. Dean Academic Affairs,
4. Director College Development Council

(Signature)
Deputy Registrar (Admn.)

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**Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.**

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref. No : Notification/ 33

Dated : 07.10.15

NOTIFICATION

FACULTY OF HUMANITIES & SOCIAL STUDIES

(01.10.15 to 30.09.17)

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.20, the following Faculty of Humanities & Social Studies is hereby constituted for a period of two years (01.10.15 to 30.09.17):

Sr. No	Nomenclature	Name & Address	Designation
01	Dean, Faculty	Dr. B.S. Ghuman, Deptt. of Public Adm., Panjab Univ., Sector-14, Chd (Ph. 9815942534) ghumanbs@pu.ac.in	Chairman
02	All Heads of Depts of various branches of the Faculty in the University	1. Ms. Suman Kathuria, GZS Campus CFT, Bathinda (Ph. 8872500270) suman_kathuria@yahoo.co.in 2. Dr. Harjinder Pal Singh Walia, Head, Dept. of Mass Comm. & Journalism, Punjabi Univ., Patiala (Ph. 9872314380) 3. Dr. Raminder Pal Singh, Head, Dept. of Humanities & Social Studies, SBSSTC, Ferozepur (Ph. 8054011077) rpsinghromy@gmail.com	Members
03	All Prof. in Faculty From Univ. Depts. Const. College/affiliated Colleges	1. Dr. Hari Singh Sahota, Professor English, Jaedev Singh Sandhu Institute of Engg. & Tech., Kauli, Patiala. 2. Dr. Jagir Singh, Professor, Professor, North West Group of Institutions, Moga	Members
04	Two Associate Professors by seniority by rotation for a period of 2 years from Univ. Depts./const. College/affiliated College	1. Dr. Kiranjeet Kaur, Associate Professor, SBSSTC, Ferozepur (Ph. 8283820720) kirankican2@rediffmail.com 2. Dr. B.S. Brar, Associate Professor, Adesh Institute of Engineering & Technology, Faridkot.	Members

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05	Two Assistant Professors by seniority by rotation for a period of 2 years from Univ. Depts./constituent College/affiliated College	1. Mr. Mohit Kumar, Assistant Professor, MIMIT, Malout (Ph. 9872266003) mohit_es@rediffmail.com 2. Dr. Sushil Kumar, Assistant Professor, Punjabi University Campus, Tatwandi Sabo.	Members
06	In case any branch is not represented above in the Faculty by a representative from affiliated Colleges, then add here upto two HODs from affiliated Colleges in the concerned branch by rotation	1. Ms. Harpreet Kaur, Assistant Professor, Fashion Tech., Desh Bhagat Foundation Group of Institutions, (Moga).	Members
07	One expert in each branch from outside University.	1. Mr. Sanjay Wadwalkar, Prof., Mass Communication, Punjab Univ., Chandigarh (Ph. 9464250408) sanwad@pu.ac.in 2. Ms. Meeta Gawri, Northern India Institute of Fashion Technology, Mohali 3. Mr. Gobind Rai, Northern India Institute of Fashion Technology, Mohali. 4. Dr. Sukhdev Singh, Prof, English, GNDU, Amr. (Ph. 9464225655) sukhgndu@gmail.com	Members

The major functions of each Faculty shall be to supervise, discuss and decide on all matters pertaining to courses of studies, teaching schemes and other academic matters falling in their respective fields.

Encl. No 4372

Dated: 19/10/15

A copy of the above is forwarded to the following for information & record please.

1. All concerned,
2. PS to Vice-Chancellor,
3. Dean Academic Affairs,
4. Director College Development Council

(Signature)
Deputy Registrar (Admn.)

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**Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.**

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref. No: Notification/ 39

Dated : 07-10-15

NOTIFICATION

FACULTY OF SCIENCES

(01.10.15 to 30.09.17)

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.20, the following Faculty of Sciences is hereby constituted for a period of two years (01.10.15 to 30.09.17).

Sr. No	Nomenclature	Name & Address	Designation
01	Dean, Faculty	Prof. Subodh Kumar, FNASc, Department of Chemistry, Guru Nanak Dev University, Asr (Ph. 9872361528) subodh_gndu@yahoo.co.in	Chairman
02	All Heads of Depts of various branches of the Faculty in the University	<ol style="list-style-type: none"> 1. Dr. Gursharan Singh, Head, Dept. of Chemistry, GZS Campus CET, Bathinda (Ph. 8872500260) gursharans82@gmail.com 2. Dr. Sandeep Kansal, Head, Dept. of Physics, GZS Campus CET, Bathinda (Ph. 8872500263) skansal2k1@yahoo.com 3. Dr. Karanvir Singh, Head, Dept. of Mathematics, GZS Campus CET, Bathinda (Ph. 8872211150) karanyirs786@gmail.com 4. Dr. R.P. Gupta, Head, Dept. of Bio-Technology, BIS Institute of Sciences and Technology, Gagra (Moga). 5. Dr. Vikram Singh, Head, Dept. of Agriculture, Swami Vivekanand Faculty of Technology and Management, Ram Nagar, Banur. 	Members
03	All Professors in Faculty from Univ. Depts. Const. College/affiliated Colleges	<ol style="list-style-type: none"> 1. Dr. J.S. Hundal, Professor, GZS Campus CET, Bathinda (Ph. 8872500251) principalgzscet@yahoo.co.in 2. Dr. Mohinder Pal, Professor, Applied Physics, RIMT institute of Engg. & Tech. Mandi Gobindgarh. 3. Dr. Jawahar Lal Kapoor, Professor, Applied Chemistry, RIMT institute of Engg. & Tech. Mandi Gobindgarh. 	Members

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		<ol style="list-style-type: none"> 4. Dr. Yogeshwar Chauchan, Professor Physics, Jasdev Singh Sandhu Institute of Engg. & Tech., Kauli, Patiala 5. Dr. Charanjit Lal, Professor Mathematics, Jasdev Singh Sandhu Institute of Engg. & Tech., Kauli, Patiala 6. Dr. Mecnu Sharma, Professor Physics, Jasdev Singh Sandhu Institute of Engg. & Tech., Kauli, Patiala 7. Dr. Jaskaran Singh, Professor Mathematics, MIMT, Malout (Ph. 9356737037) bhullarjaskarn@rediffmail.com 8. Dr. Harbax Singh Bhatni, Baba Banda Singh Bhadur, Engg. College, Fatehgarh Sahib (Ph. 9914935678), Sahib bhathihs100@yahoo.com 9. Dr. Archana Gupta, Professor, Dept. of Physics, Swami Vivekanand Institute of Engg. & Tech., Ram Nagar, Near Banur, Patiala. 10. Dr. Buta Singh, Professor, Dept. of Physics, Asra College of Engg. & Tech., Bhawanigarh. 11. Dr. K.C. Gupta, Professor, Dept. of Mathematics, Dept. of Electronics & Communication Engg., ASRA College of Engg. & Tech., Bhawanigarh 12. Dr. Harbans Sandhu, Professor, Guru Ram Das Institute of Engg. & Tech. Bathinda. 13. Dr. Awdhesh Pandey, Professor, Guru Ram Das Institute of Engg. & Tech. Bathinda. 14. Dr. M.S. Dhanju, Professor, Dept. of Bio-Technology, BIS Institute of Sciences and Technology, Gagra (Moga). 15. Dr. V.K. Mehan, Professor, Dept. of Agriculture, Dev Raj Group of Institutions Management & Technology, Ferozepur. 	
04	Two Associate Professors by seniority by rotation for a period of 2 years from Univ. Depts./ constituent College/affiliate of College	<ol style="list-style-type: none"> 1. Dr. Lalit Sharma, Associate Professor Chem., Dept. of Applied Sciences, SBSSTC Ferozepur 2. Dr. Sangeeta Sharma, Associate Professor, SBSSTC Ferozepur (Ph. 9888569566) ssharma70in@yahoo.co.in 	Members
05	Two Assistant Professors by seniority by	<ol style="list-style-type: none"> 1. Mrs. Mamta Kanwal, Assistant Professor, Dept. of Mathematics, GZS Campus CET, Bathinda. 	Members

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	rotation for a period of 2 years from Univ. Depts./const. College/affiliate of College	2. Dr. Ravikant, Assistant Professor, Bhai Gurdas College of Engg. & Tech., Sangrur.	
06	In case any branch is not represented above in the Faculty by a representative from affiliated Colleges, then add here upto two HODs from affiliated Colleges in the concerned branch by rotation	-NIL-	Members
07	One expert in each branch from outside University.	1. Dr. Sushil Mittal, Professor Chem., Thapar University, Patiala. 2. Dr. S.S. Bhatia, Professor Math., Thapar University, Patiala. 3. Dr. B.S. Bajwa, Professor Phy., GNDU, Amritsar. 4. Dr. Jaspreet Kaur, Professor Bio-Tech., University Institute of Engineering and Technology, Punjab University, Chandigarh 5. Dr. J.S. Bal, Professor, Agri. Dept., GNDU Amritsar.	Members

The major functions of each Faculty shall be to supervise, discuss and decide on all matters pertaining to courses of studies, teaching schemes and other academic matters falling in their respective fields

Sd/-
Registrar

Enclst. No. 4375

Dated: 19/10/15

A copy of the above is forwarded to the following for information & record please.

1. All concerned,
2. PS to Vice-Chancellor,
- ✓ 3. Dean Academic Affairs,
4. Director College Development Council

Abhishek Singh
Deputy Registrar (Admn.)

Maharaja Ranjit Singh State Technical University, Bathinda
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**Maharaja Ranjit Singh State Technical University,
Dabwali Road, Bathinda**

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref. No : Notification/ 44

Dated : 18-11-2015

NOTIFICATION

FACULTY OF PHARMACY

(01.10.15 to 30.09.17)

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.20, the following Faculty of Pharmacy is hereby constituted for a period of two years (01.10.15 to 30.09.17).

Sr. No	Nomenclature	Name & Address	Designation
01	Dean, Faculty	Dr. Ashish Baldi, Principal, ISF College of Pharmacy, GT Ferozpur Road, NH 95, PO Ghal Kalan, Moga, 142001 (Ph. 08968423848) principal.isfcp@gmail.com	Chairman
02	All Heads of Deptts of various branches of the Faculty in Univ.	1. Dr. Ashish Baldi, Principal, ISF College of Pharmacy, GT Ferozpur Road, NH 95, PO Ghal Kalan, Moga, 142001 (Ph. 08968423848) principal.isfcp@gmail.com	Member
03	All Professors in Faculty from University Deptts., constituent Colleges / affiliated Colleges	1. Dr. Promila Sama, Professor, MLT, BIS Institute of Science & Tech. (Gagra Campus), Moga-Amritsar Highway, Gagra- Moga 142043 (Ph. 09872825773) drpromilasama@yahoo.com 2. Dr. H.S. Lamba, Professor & Director, Lala Lajpat Rai College of Pharmacy, Moga - Ferozepur G.T. Road, Near P.S Sadar, Moga, 142001 (Pharmacognosy) (Ph. 09501197936) llrcpmoga@gmail.com 3. Dr. Reni Kapur, Professor, Akal College of Pharmacy & Technical Education, Mastuana Sahib, Pharmacy College Complex, Badrukhan, Ubhewal Road, Sangrur, 148001. (Pharmacognosy) (Ph. 08699720016) reni_bhalla@rediffmail.com 4. Dr. R.K. Narang, Professor, ISF College of Pharmacy, GT Ferozpur Road, NH 95, PO Ghal Kalan, Moga, Punjab, 142001, India	Members

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		<p>(Ph. 09878696688) drknisf@gmail.com</p> <p>5. Dr. Sushma Gupta, Professor & Principal, Swami Vivekanand College of Pharmacy, Ramnagar, Banur, Dist. Patiala (Pharmaceutic Chemistry) (Ph. 08556001839) principal.svcpl@gmail.com</p> <p>6. Dr. Pradeep, Professor & Principal, Bahra Institute of Pharmacy, Village Bhedpur, Tehsil & Dist. Patiala (Pharmaceutical Chemistry) (Ph. 09592325432) bipatiala@gmail.com</p> <p>7. Dr. Amit Kumar Goyal, Professor, ISF College of Pharmacy, GT Ferozpur Road, NH 95, PO Ghal Kalan, Moga, 142001 (Pharmaceutics) (Ph. 0987828688) amitkumargoyal1979@yahoo.com</p> <p>8. Dr. Rahul Deshmukh, Professor, ISF College of Pharmacy, GT Ferozpur Road, NH 95, PO Ghal Kalan, Moga, 142001 (Pharmacology) (Ph. 09988904375) login2rd@gmail.com</p>	
04	Two Associate Professors by seniority by rotation for a period of 2 years from Univ. Depts./ constituent Colleges/ affiliated Colleges	<p>1. Dr. B.S. Bajwa, Associate Professor, Lala Lajpat Rai College of Pharmacy, Moga - Ferozpur G.T.Road, Near P.S Sadar, Moga, 142001 (Pharmaceutical Chemistry) (Ph. 09815640751) bajwabaljinder@yahoo.co.in</p> <p>2. Dr. G.S. Roy, Associate Professor, Baba Ishar Singh College of Pharmacy, Kot-ise-khan, Dharmkot Road, Teh. Zira, Dist. Ferozpur. (Pharmacognosy) (Ph. 09878822103) soham_ronkini@yahoo.com</p>	Members
05	Two Assistant Professors by seniority by rotation for a period of 2 years from Univ. Depts./ constituent Colleges/ affiliated Colleges	<p>1. Mr. Nadeem Khan, Assistant Professor, Swift School of Pharmacy (SSP), Village - Ghagar Sarai, Tehsil - Rajpura Dist. Patiala (Pharmacology) (Ph. 09888117833) nadeem_khansre@yahoo.com</p> <p>2. Mr. Rakesh Garg, Assistant Professor, S.D. College of Pharmacy, Pakka College Rd, Barnala, Punjab 148101 (Pharmacognosy) (Ph. 09417493032) rakeshgogi@rediffmail.com</p>	Members
06	In case any branch is not represented above in the Faculty by a representative	-NIL-	Members

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	from affiliated Colleges, then add here upto two HODs from affiliated Colleges in the concerned branch by rotation		
07	One expert in each branch from outside University.	<p>1. Dr. Anupam Sharma, Professor, UIPS, Panjab University, Sector-14, Chandigarh, – 160014 (Pharmacognosy) (Ph. 09872021661) ans1959@rediffmail.com.</p> <p>2. Dr. R.K. Goel, Professor, Department of Pharmaceutical Sciences & Drug Research, Punjabi University, Patiala (Pharmacognosy) (Ph. 09417881189) goelrkpup@gmail.com.</p> <p>3. Dr. B.S. Bhoop, Professor, UIPS, Panjab University, Chandigarh, Sector-14, Chandigarh-160014. (Pharmaceutics) (Ph. 09815602785) bsbhoop@yahoo.com.</p> <p>4. Dr. Raj Kumar, In-Charge, Centre for Pharmaceutical Sciences & Natural Products, Central University of Punjab, Bathinda (Pharmaceutical Chemistry) (Ph. 09914567224) raj.khunger@gmail.com</p>	Members.

The major functions of each Faculty shall be to supervise, discuss and decide on all matters pertaining to courses of studies, teaching schemes and other academic matters falling in their respective fields.

sd
Registrar

Endst. No. 4979

Dated: 19/11/15

A copy of the above id forwarded to the following for information & record please.

1. All concerned,
2. PS to Vice-Chancellor,
- ✓ 3. Dean Academic Affairs,
4. Director College Development Council

Chit...
Deputy Registrar (Admn.)

Maharaja Ranjit Singh State Technical University, Bathinda
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DAA APPENDIX - III

Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref. No : Notification/ 57

Dated : 01-10-15

NOTIFICATION

**Board of Studies
Architecture & Planning
(Tenure 01.10.15 to 30.09.17)**

Course:

I. B. Arch.

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State - Technical University, Bathinda (MRSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.19, the following Board of Studies in Architecture & Planning is hereby constituted for a period of two years (01.10.15 to 30.09.17).

Sr. No.	Nomenclature	Name & Address	Designation
(i)	Head of the Department concerned	1. Ar. Bhupinder Pal Singh, Head, GZS Campus CET, Dabwali Road, Bathinda, (Ph. 8372500267, 9417755569) braldhot@hotmail.com	Chairman
(ii)	One Faculty member (of each specialization)	1. Dr. Prabhjot Kaur, Professor, GZS Campus CET, Dabwali Road, Bathinda (Ph. 9780811342) pkaurdap@gmail.com 2. Ar. Ranjeet Kaur, Associate Professor, GZS Campus CET, Dabwali Road, Bathinda. (Town Planning & Arch.) (Ph. 9988486889) ranjeetkjohnal@yahoo.co.in 3. Ar. Ripu Daman Singh, Associate Professor, GZS Campus CET, Dabwali Road, Bathinda. (Green Arch.) (Ph. 8872500273, 9815222335) ripu_jatinder@yahoo.co.in	Member(s)
(iii)	One Expert (in the subject from outside the Univ.)	1. Dr. Gaurav Raheja, Associate Professor, III Roockee, Uttarakhand., (Ph. 01332-285709) grdeslap@itr.ac.in	Member
(iv)	Two Experts (nominated by the Vice Chancellor)	1. Ar. Sohan Lal Saharan, Associate Professor, CCA, Chandigarh. 2. Ar. Jeet Gupta, Retd. Chief Town Planner, UPL, Chandigarh.	Members
(v)	Two Faculty members (from	1. Ar. Ambrish K. Gupta, Principal, RIMT College of Arch. Mandi Gobindgarh.	Members

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	affiliated/constituent Colleges)	2. Ar. Renu Saigal, Principal, Surya Educational & Charitable Trust Group of Institutions, School of Architecture, Shambhu, Raipura	
(vi)	One representative (from industry/ corporate sector)	1. Ar. Sunil Kapoor, Principal, Architectural Spacescrapers, Chandigarh.	Member
(vii)	One post graduate meritorious alumnus	1. Ar. Sugandh Malhotra, Practicing Architect, Director, Studio Ideate, New Delhi, info@studioideate.com , 9810296933.	Member

The main functions of BOS are as follows:

- Prepare syllabi for various courses keeping in view the objectives of the institution, interest of stakeholders and national requirements for consideration and approval of the Academic Council.
- Suggest methodologies for innovative teaching and evaluation techniques.
- Suggest panel of experts to the Academic Council for appointment as examiners.
- Coordinate research, teaching, extension and other academic activities in the department/ institution.
- The Board of studies will also suggest a panel of faculty members for setting the question papers and for appointment as External examiners for practical courses.
- Any other assignment given by the Vice-Chancellor from time to time.

Quorum:

Quorum of the Board of Studies is a minimum of half of the members of the board of Studies including the chairman, Board of Studies.

Endst. No. 1820

Dated: 9/10/15

5/6
Registrar

A copy of the above is forwarded to the following for information & record please.

- All concerned,
- PS to Vice-Chancellor,
- Dean Academic Affairs,
- Director College Development Council

(Signature)
Deputy Registrar (Admn.)

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**Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.**

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref. No : Notification/ 15

Dated : 07-10-15

NOTIFICATION

**Board of Studies
Bio-Technology
(Tenure 01.10.15 to 30.09.17)**

Courses:

1. B.Sc. (Bio-Technology)
2. M.Sc. (Bio-Technology)

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.19, the following **Board of Studies in Bio-Technology** is hereby constituted for a period of two years (01.10.15 to 30.09.17).

Sr. No.	Nomenclature	Name & Address	Designation
(i)	Head of the Department concerned	1. Dr. R.P. Gupta, Head, Dept. of Bio-Technology, BIS Institute of Sciences and Technology, Garga (Moga) (Ph. 9878822104).	Chairman
(ii)	One Faculty member (of each specialization)	1. Dr. M.S. Dhanju, Professor, Dept. of Bio-Technology, BIS Institute of Sciences and Technology, Garga (Moga) 2. Dr. Vikas Handa, Assistant Professor, Thapar University, Patiala. vikas.handa@thapar.edu 3. Ms. Reena Mittal, Assistant Professor, Dept. of Bio-Technology, BIS Institute of Sciences and Technology, Garga (Moga)	Member(s)
(iii)	One Expert (in the subject from outside the Un'v.)	1. Dr. M.S. Reddy, Professor, Thapar University, Patiala. msreddy@thapar.edu	Member
(iv)	Two Experts (nominated by the Vice Chancellor)	1. Dr. D Goyal, Professor, Thapar University, Patiala. dgoyal@thapar.edu 2. Dr. Jaspreet Kaur, Professor, University Institute of Engineering and Technology, Punjab University, Chandigarh.	Members

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(v)	Two Faculty members (from affiliated/constituent Colleges)	1. Dr. Meenakshi Bhagat, Assistant Professor, Dept. of Bio-Technology, BIS Institute of Sciences and Technology, Gurga (Moga) 2. Dr. Sanjeev Puri, Professor, University Institute of Engineering and Technology, Punjab University, Chandigarh.	Members
(vi)	One representative (from industry/corporate sector)	1. Dr. Arvind Bakshi www.futurefoodconcepts.org (Ph. 98142-03946)	Member
(vii)	One post graduate meritorious alumnus	1. Dr. Anu Kalia, Department of Nanotechnology, PAU Ludhiana.	Member

The main functions of BOS are as follows:

- Prepare syllabi for various courses keeping in view the objectives of the institution, interest of stakeholders and national requirements for consideration and approval of the Academic Council.
- Suggest methodologies for innovative teaching and evaluation techniques.
- Suggest panel of experts to the Academic Council for appointment as examiners.
- Coordinate research, teaching, extension and other academic activities in the department/ institution.
- The Board of studies will also suggest a panel of faculty members for setting the question papers and for appointment as External examiners for practical courses.
- Any other assignment given by the Vice-Chancellor from time to time.

Quorum:

Quorum of the Board of Studies is a minimum of half of the members of the board of Studies including the chairman, Board of Studies.

Endst. No. 1834

Dated: 9/10/15

A copy of the above is forwarded to the following for information & record please.

- All concerned,
- PS to Vice-Chancellor,
- Dean Academic Affairs,
- Director College Development Council

[Signature]
Deputy Registrar (Admn.)

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**Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.**

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref. No : Notification/ 11

Dated : 27-10-15

NOTIFICATION

Board of Studies

Agriculture

(Tenure 01.10.15 to 30.09.17)

Course:

I. B.Sc. (Agriculture)

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.19, the following **Board of Studies in Agriculture** is hereby constituted for a period of two years (01.10.15 to 30.09.17).

Sr. No.	Nomenclature	Name & Address	Designation
(i)	Head of the Department concerned	1. Dr. Vikram Singh, Head, Dept. of Agriculture, Swami Vivekanand Faculty of Technology and Management, Ram Nagar, Banur. (Ph. 0176-2507000).	Chairman
(ii)	One Faculty member (of each specialization)	1. Dr. Yachna, Assistant Professor, Swami Vivekanand Faculty of Technology and Management, Ram Nagar, Banur. 2. Mr. Baljinder Singh, Assistant Professor, Ferozpur Institute of Management, Ferozpur.	Member(s)
(iii)	One Expert (in the subject from outside the Univ.)	1. Dr. K.C. Chaudhary, Professor, Animal Nutritionist, 32, Satguru Nagar Ludhiana. (Ph. 9417859499) kc_chaudhary@rediffmail.com	Member
(iv)	Two Experts (nominated by the Vice-Chancellor)	1. Dr. Naveen Singh, Senior Scientist (Plant Breeding), Division of Plant Breeding, IARI, New Delhi. (Ph. 011-25841481) naveensingh@iari.res.in . 2. Dr. A.K. Singh, Department of Processing & Food Engineering, College of Agriculture Engg. & Technology, PAU Ludhiana. (Ph. 9988053844).	Members

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(v)	Two Faculty members (from affiliated/constituent Colleges)	1. Dr. V.K. Mohan, Professor, Dev Raj Group of Institutions Management and Technology, Ferozepur. 2. Mr. Harjinder Singh, Assistant Professor, Dev Raj Group of Institutions Management and Technology, Ferozepur.	Members
(vi)	One representative (from industry/ corporate sector)	1. Dr. Harpreet Kaur, Assistant Professor, Department of Agriculture, Khalsa College, Patiala. preet20may@yahoo.co.in	Member
(vii)	One post graduate meritorious alumnus	1. Dr. Sarbjit Singh Bal, Dean Agriculture, Baba Farid College, Deon, Bathinda. (Ph. 9501115223).	Member

The main functions of BOS are as follows:

- Prepare syllabi for various courses keeping in view the objectives of the institution, interest of stakeholders and national requirements for consideration and approval of the Academic Council.
- Suggest methodologies for innovative teaching and evaluation techniques.
- Suggest panel of experts to the Academic Council for appointment as examiners.
- Coordinate research, teaching, extension and other academic activities in the department/ institution.
- The Board of studies will also suggest a panel of faculty members for setting the question papers and for appointment as External examiners for practical courses.
- Any other assignment given by the Vice-Chancellor from time to time.

Quorum:

Quorum of the Board of Studies is a minimum of half of the members of the board of Studies including the chairman, Board of Studies.

Enclst. No. 1847

Dated: 9/10/15

Sd/-
Registrar

A copy of the above is forwarded to the following for information & record please.

- All concerned,
- PS to Vice-Chancellor,
- Dean Academic Affairs,
- Director College Development Council

[Signature]
27/10/2015
Deputy Registrar (Admn.)

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(6/5)

**Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.**

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref. No : Notification/ 19

Dated : 07-10-15

NOTIFICATION

**Board of Studies
Fashion Technology
(Tenure 01.10.15 to 30.09.17)**

Courses:

1. B.Sc. (Fashion Technology)
2. B.Sc. (Fashion Design)
3. M.Sc. (Fashion Technology)

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.19, the following **Board of Studies in Fashion Technology** is hereby constituted for a period of two years (01.10.15 to 30.09.17).

Sr. No.	Nomenclature	Name & Address	Designation
(i)	Head of the Department concerned	1. Dr. Poonam Sharma, Head, Dept of Fashion Technology, Northern India Institute of Fashion Technology, Mohali. (Ph. 0172-504994, 9417303649) thakur10poonam@yahoo.co.in	Chairperson
(ii)	One Faculty member (of each specialization)	1. Mr. Gobind Rai, Northern India Institute of Fashion Technology, Mohali. 2. Ms. Anu H. Gupta, Assistant Professor, UIFT, PU, Chandigarh.	Member(s)
(iii)	One Expert (in the subject from outside the Univ.)	1. Ms. Meeta Gawri, Northern India Institute of Fashion Technology, Mohali.	Member
(iv)	Two Experts (nominated by the Vice Chancellor)	1. Ms. Shweta Sharma, Northern India Institute of Fashion Technology, Mohali. 2. Ms. Harpreet Kaur, Assistant Professor, Desh Bhagat Foundation Group of Institutions, Moga.	Members
(v)	Two Faculty members (from affiliated/constituent Colleges)	1. Ms. Rajinder Kaur, Assistant Professor, Desh Bhagat Foundation Group of Institutions, Moga. 2. Ms. Manpreet Kaur, Assistant Professor, Desh Bhagat Foundation Group of Institutions, Moga.	Members

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(vi)	One representative (from industry/ corporate sector)	1. Ms. Chhaya Verma, Assistant Professor, Clothing and Textiles Department, Govt. Home Science College, Chandigarh (Ph. 9417862612) chhaya_chandu@yahoo.com	Member
(vii)	One post graduate meritorious alumnus	1. Mr. Jaspal Kalra, Associate Professor, Indian Institute of Art and Design, Delhi (Ph. 9871509897) jaspal@jaspalkalra.in	Member

The main functions of BOS are as follows:

- Prepare syllabi for various courses keeping in view the objectives of the institution, interest of stakeholders and national requirements for consideration and approval of the Academic Council.
- Suggest methodologies for innovative teaching and evaluation techniques.
- Suggest panel of experts to the Academic Council for appointment as examiners.
- Coordinate research, teaching, extension and other academic activities in the department/ institution.
- The Board of studies will also suggest a panel of faculty members for setting the question papers and for appointment as External examiners for practical courses.
- Any other assignment given by the Vice-Chancellor from time to time.

Quorum:

Quorum of the Board of Studies is a minimum of half of the members of the board of Studies including the chairman, Board of Studies.

Endst. No. 1860

Dated: 9/10/15 ^{Sd/-}
Registrar

A copy of the above id forwarded to the following for information & record please.

- All concerned,
- PS to Vice-Chancellor,
- Dean Academic Affairs,
- Director College Development Council

[Signature]
27/10/2015
Deputy Registrar (Admn.)

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(8/50)

**Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.**

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref. No : Notification/ 13

Dated : 07-10-15

NOTIFICATION

**Board of Studies
Chemical Engineering
(Tenure 01.10.15 to 30.09.17)**

Course:

I. B.Tech. (Chemical Engineering)

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.19, the following **Board of Studies in Chemical Engineering** is hereby constituted for a period of two years (01.10.15 to 30.09.17).

Sr. No.	Nomenclature	Name & Address	Designation
(i)	Head of the Department concerned	1. Dr. Rajiv Arora, Head, Dept. of Chemical Engineering, SBSSTC, Ferozepur. (Ph. 9463385619) rajiv_fzr@yahoo.com	Chairman
(ii)	One Faculty member (of each specialization)	1. Dr. Rajeev Kumar Garg, Associate Professor, Dept. of Chemical Engineering, SBSSTC, Ferozepur. (Ph. 8288012013) rkg_garg@rediffmail.com 2. Dr. Sushil Mittal, Professor, Thapar University Patiala (Ph. 9815653261) smittal2001@yahoo.com 3. Mr. Pankaj Kalra, Assistant Professor, Dept. of Chemical Engineering, SBSSTC, Ferozepur. (Ph. 8054100770) pankajkalra75@gmail.com	Member(s)
(iii)	One Expert (in the subject from outside the Univ.)	1. Dr. Raj Kumar Gupta, Associate Professor, Thapar University, Patiala. rkgupta@thapar.edu ,	Member
(iv)	Two Experts (nominated by the Vice Chancellor)	1. Dr. Minakshi Goyal, Professor, Department of Chemical Engg., Panjab Univ., Chandigarh. (Ph. 9815608594) dcet@pu.ac.in . 2. Dr. M.K. Jha, Professor, Department of Chemical Engg., NIT Jalandhar (Ph. 9417290668) jhamk@nitj.ac.in	Members

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(v)	Two Faculty members (from affiliated/constituent Colleges)	1. Dr. Seema Sharma, Associate Professor, GZS Campus CET, Bathinda (Ph. 9417114169, 8872500279) harprit6920@gmail.com 2. Mrs. Balpreet Kaur, Associate Professor, Dept. of Chemical Engineering, SBSSTC, Ferozepur (Ph. 9417291494) balpreet_kaur@yahoo.com	Members
(vi)	One representative (from industry/ corporate sector)	1. Dr. Sushil Kumar Kansal, Chemical, PU, Chandigarh (Ph. 9876581564) sushilkki@pu.ac.in	Member
(vii)	One post graduate meritorious alumnus	1. Mr. Baljeev Kumar, Assistant Professor, Dept. of Chemical Engineering, BCET, Gurdaspur (Ph. 9417198711) baljeevk@yahoo.co.in	Member

The main functions of BOS are as follows:

- Prepare syllabi for various courses keeping in view the objectives of the institution, interest of stakeholders and national requirements for consideration and approval of the Academic Council.
- Suggest methodologies for innovative teaching and evaluation techniques.
- Suggest panel of experts to the Academic Council for appointment as examiners.
- Coordinate research, teaching, extension and other academic activities in the department/ institution.
- The Board of studies will also suggest a panel of faculty members for setting the question papers and for appointment as External examiners for practical courses.
- Any other assignment given by the Vice-Chancellor from time to time.

Quorum:

Quorum of the Board of Studies is a minimum of half of the members of the board of Studies including the chairman, Board of Studies.

Enlst. No. 1874

Dated: 9/10/15

sl/-
Registrar

A copy of the above is forwarded to the following for information & record please.

- All concerned,
- PS to Vice-Chancellor,
- Dean Academic Affairs,
- Director College Development Council

(Signature)
Deputy Registrar (Admn.)

Maharaja Ranjit Singh State Technical University, Bathinda
Ph. 0164-2280197, Fax 0164-2280164, Email: reg@mrsstu.ac.in

10/53

**Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.**

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref. No : Notification/ 11

Dated : 07-10-15

NOTIFICATION

Board of Studies

Food Technology

(Tenure 01.10.15 to 30.09.17)

Course:

I. B.Tech. (Food Technology)

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.19, the following **Board of Studies in Food Technology** is hereby constituted for a period of two years (01.10.15 to 30.09.17).

Sr. No.	Nomenclature	Name & Address	Designation
(i)	Head of the Department concerned	1. Dr. Tanuja Srivastwa, Head, Dept. of Food Technology, Bhai Gurdas Institute of Engineering & Technology, Sangrur. (Ph. 9814847492)	Chairperson
(ii)	One Faculty member (of each specialization)	1. Dr. Gursharan Singh, Professor, Dept. of Chemistry, GZS Campus CET, Bathinda (Ph. 9417628270) gursharans82@gmail.com 2. Dr. Satnam Singh, Assistant Professor, Bhai Gurdas Institute of Engineering & Technology, Sangrur.	Member(s)
(iii)	One Expert (in the subject from outside the Univ.)	1. Dr. Narpinder Singh, Professor, Dept. of Food Technology, GNDU Amritsar (Ph. 9464777980) narpinders@yahoo.com	Member
(iv)	Two Experts (nominated by the Vice Chancellor)	1. Dr. Amarjeet Kaur, Professor, Dept. of Food Technology, PAU, Ludhiana. 2. Dr. Vikas Nada, Associate Professor, Bhai Gurdas Institute of Engineering & Technology, Sangrur.	Members
(v)	Two Faculty members (from affiliated/constituent Colleges)	1. Dr. Prabhpreet Kaur, Assistant Professor, Bhai Gurdas Institute of Engineering & Technology, Sangrur. 2. Dr. Seema Sharma, Associate Professor, Dept. of Chemistry, GZS Campus CET, Bathinda.	Members

Maharaja Ranjit Singh State Technical University, Bathinda
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(vi)	One representative (from industry/ corporate sector)	1. Dr. Sanjeev Sharma, Diet & Nutrition Consultant A.P. Organics Limited Dhuri, Sangrur. (Ph. 9872424105)	Member
(vii)	One post graduate meritorious alumnus	1. Dr. D.C. Saxena, Professor & Head, Dept. of Food Engineering & Technology, SLIET Sangrur.	Member

The main functions of BOS are as follows:

- Prepare syllabi for various courses keeping in view the objectives of the institution, interest of stakeholders and national requirements for consideration and approval of the Academic Council.
- Suggest methodologies for innovative teaching and evaluation techniques.
- Suggest panel of experts to the Academic Council for appointment as examiners.
- Coordinate research, teaching, extension and other academic activities in the department/ institution.
- The Board of studies will also suggest a panel of faculty members for setting the question papers and for appointment as External examiners for practical courses.
- Any other assignment given by the Vice-Chancellor from time to time.

Quorum:

Quorum of the Board of Studies is a minimum of half of the members of the board of Studies including the chairman, Board of Studies.

Endst. No. 1887

Dated: 9/10/15

sd/-
Registrar

A copy of the above is forwarded to the following for information & record please.

- All concerned,
- PS to Vice-Chancellor,
- Dean Academic Affairs,
- Director College Development Council.

(Signature)
Deputy Registrar (Admn.)

Maharaja Ranjit Singh State Technical University, Bathinda
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**Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.**

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref. No : Notification/ 15

Dated : 07-10-15

NOTIFICATION

Board of Studies

Civil Engineering

(Tenure 01.10.15 to 30.09.17)

Courses:

1. B.Tech. (Civil Engineering)
2. B.Tech. (Construction Engineering)
3. M.Tech. (Civil Engineering)
4. M.Tech. (Structural Engineering)
5. B.Tech. (Mining Engineering)

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.19, the following **Board of Studies in Civil Engineering** is hereby constituted for a period of two-years (01.10.15 to 30.09.17).

Sr. No.	Nomenclature	Name & Address	Designation
(i)	Head of the Department concerned	1. Fr. Gurpreet Singh Bath, Head, GZS Campus CET, Dabwali Road, Bathinda. (Ph. 9417171710) gpsbath66@gmail.com	Chairman *
(ii)	One Faculty member (of each specialization)	1. Dr. Sanjiv Kumar Aggarwal, Associate Professor, GZS Campus CET, Dabwali Road, Bathinda (Transportation Engg.) (Ph. 9470022281) sanjiv_aggarwal@rediffmail.com 2. Dr. Manjeet Bansal, Associate Professor, GZS Campus CET, Dabwali Road, Bathinda. (Structure Engg.) (Ph. 9815126102) push_kar5@yahoo.com 3. Dr. Rakesh Kumar, Associate Professor, GZS Campus CET, Dabwali Road, Bathinda (Structure Engg.) (Ph. 8872500295) rkumar_s@rediffmail.com	Member(s)
(iii)	One Expert (in the subject from outside the Univ.)	1. Dr. Maneek Kumar, Professor, Thapar University, Patiala. maneek@thapar.edu	Member

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Ph. 0164-2280197, Fax 0164-2280164, Email: reg@mrsstu.ac.in

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(iv)	Two Experts (nominated by the Vice Chancellor)	1. Dr. Rafat Siddique, Senior professor, Thapar University, Patiala. rsiddique@thapar.edu 2. Dr. Sibay John, Professor, Department of Civil Engg., PEC, Chandigarh.	Members
(v)	Two Faculty members (from affiliated/constituent Colleges)	1. Mr. Sandeep Singla, Associate Professor RIMT – Institute of Engineering & Tech. 2. Mr. Bohar Singh, Head & Assistant Professor, SBSSTC, Ferozepur (Ph. 8146992581) boharsingh@gmail.com	Members
(vi)	One representative (from industry/corporate sector)	1. Mr. R.K. Mahajan, GM Unitech, Noida	Member
(vii)	One post graduate meritorious alumnus	1. Er. Rohini Garg, Ambuja Cement, Chandigarh.	Member

The main functions of BOS are as follows:

- Prepare syllabi for various courses keeping in view the objectives of the institution, interest of stakeholders and national requirements for consideration and approval of the Academic Council.
- Suggest methodologies for innovative teaching and evaluation techniques.
- Suggest panel of experts to the Academic Council for appointment as examiners.
- Coordinate research, teaching, extension and other academic activities in the department/ institution.
- The Board of studies will also suggest a panel of faculty members for setting the question papers and for appointment as External examiners for practical courses.
- Any other assignment given by the Vice-Chancellor from time to time.

Quorum:

Quorum of the Board of Studies is a minimum of half of the members of the board of Studies including the chairman, Board of Studies.

Enclst. No. 1901

Dated: 9/10/15

Sd/-
Registrar

A copy of the above id forwarded to the following for information & record please.

- All concerned.
- PS to Vice-Chancellor,
- Dean Academic Affairs,
- Director College Development Council

(Signature)
Deputy Registrar (Admn.)

Maharaja Ranjit Singh State Technical University, Bathinda
Ph. 0164-2280197, Fax 0164-2280164, Email: reg@mrsstu.ac.in

(14/53)

**Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.**

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref. No : Notification/ 16

Dated : 07-10-15

NOTIFICATION

**Board of Studies
Textile Engineering
(Tenure 01.10.15 to 30.09.17)**

Course:

I. B.Tech. (Textile Engineering)

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.19, the following **Board of Studies in Textile Engineering** is hereby constituted for a period of two years (01.10.15 to 30.09.17).

Sr. No.	Nomenclature	Name & Address	Designation
(i)	Head of the Department concerned	1. Dr. Rajeev Varshney, Head, Department of Textile Engg., GZS Campus College of CET, Bathinda. (Ph. 8872500271) textilegzseetbi@gmail.com	Chairman
(ii)	One Faculty member (of each specialization)	1. Dr. Anupam Kumar, Associate Professor, Department of Textile Engg., GZS Campus College of CET, Bathinda (Textile Technology) (Ph. 9417025296) anup28298@yahoo.com 2. Dr. Devanand Uttam, Associate Professor, Department of Textile Engg., GZS Campus College of CET, Bathinda (Textile Technology) (Ph. 9417233925) d_a_uttam@yahoo.com 3. Mr. Kalyan Roy, Assistant Professor, Department of Textile Engg., GZS Campus College of CET, Bathinda (Garment, Fabric Manufacture) (Ph. 9815099040) kalyankalyan1@yahoo.co.in	Member(s)
(iii)	One Expert (in the subject from outside the Univ.)	1. Dr. Arunangsho Mukherjee, Professor, NIT Jalandhar.	Member
(iv)	Two Experts (nominated by the Vice Chancellor)	1. Dr. Apurba Dass, Department of Textile Technology, IIT Delhi.	Members

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		2. Dr. Arun Kumar Patra, Associate Professor, TIES, Bhiwani.	
(v)	Two Faculty members (from affiliated/constituent Colleges)	1. Mr. Prakshit Paul, Assistant Professor, Department of Textile Engg., GZS Campus College of CET, Bathinda. 2. Dr. J.N. Chakraborty, Department of Textile Engg., NIT Jalandhar.	Members
(vi)	One Representative (from industry/corporate sector)	1. Sh. Ramesh Raina, GM, Vardhman Polytex Limited, Bathinda.	Member
(vii)	One Post Graduate meritorious alumnus	1. Mr. Harwinder Singh, Assistant Professor, Department of Textile Engg., NIT Jalandhar.	Member

The main functions of BOS are as follows:

- Prepare syllabi for various courses keeping in view the objectives of the institution, interest of stakeholders and national requirements for consideration and approval of the Academic Council.
- Suggest methodologies for innovative teaching and evaluation techniques.
- Suggest panel of experts to the Academic Council for appointment as examiners.
- Coordinate research, teaching, extension and other academic activities in the department/ institution.
- The Board of studies will also suggest a panel of faculty members for setting the question papers and for appointment as External examiners for practical courses.
- Any other assignment given by the Vice-Chancellor from time to time.

Quorum:

Quorum of the Board of Studies is a minimum of half of the members of the board of Studies including the chairman, Board of Studies.

Endst. No. 1929

self
Registrar
Dated: 09/10/15

A copy of the above id forwarded to the following for information & record please.

- All concerned,
- PS to Vice-Chancellor,
- ✓ Dean Academic Affairs,
- Director College Development Council

[Signature]
Deputy Registrar (Admn.)

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**Maharaja Ranjit Singh State Technical University,
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(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref. No : Notification/ 17

Dated : 07-10-15

NOTIFICATION

**Board of Studies
Computer Science & Engineering
(Course 01.10.15 to 30.09.17)**

Courses:

1. B.Tech. (Computer Science & Engineering)
2. B.Tech. (Computer & Communication Engineering)
3. B.Tech. (3-D Animation & Graphics)
4. B.Tech. (Computer Networking)
5. M.Tech. (Computer Science & Engineering)
6. M.Tech. (Computer Engineering)

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.19, the following Board of Studies in Computer Science & Engineering is hereby constituted for a period of two years (01.10.15 to 30.09.17).

Sr. No.	Nomenclature	Name & Address	Designation
(i)	Head of the Department concerned	1. Fr. Abhilasha Jain, Head, Deptt. of CSE & Engg., GZS Campus CET, Bathinda. (Ph. 8872500274) cse.gzsect@gmail.com	Chairperson
(ii)	One Faculty member (of each specialization)	1. Dr. Paramjeet Singh, Associate Professor, Department of Computer Science & Engg., GZS Campus CET, Bathinda (Ph. 8872500297) param2009@yahoo.com 2. Dr. Shaveta Rani, Associate Professor, Department of Computer Science & Engg., GZS Campus CET, Bathinda (Ph. 8284011796) garg_shavy@yahoo.com 3. Dr. Naresh Kumar, Associate Professor, Deptt. of Comp. Science & Engg., GZS Campus CET, Bathinda (Ph. 9463077886) naresh2834@rediffmail.com	Member(s)
(iii)	One Expert (in the subject from outside the Univ.)	1. Dr. Lakhwinder Kaur, Professor, Deptt. of Computer Science, Punjabi Univ., Patiala.	Member
(iv)	Two Experts (nominated by the Vice Chancellor)	2. Dr. Rajesh Bhatia, Professor, PEC Technological Campus, Chandigarh (Ph. 0172-2753854) rbhatia@pec.ac.in	Members

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17/53

		1. Dr. Savita Gupta, Professor & Head, University Institute of Engg. & Technology, Panjab University, Chd.	
(v)	Two Faculty members (from affiliated/constituent Colleges)	1. Dr. Sushil Garg, Principal, RIMT-Maharaja Aggarwal Engg. College, Mandi Gobindgarh. 2. Dr. Karishan Saluja, Associate Professor, SBSSTC, Ferozepur (Ph. 8288012014) k.salujasbs@gmail.com	Members
(vi)	One representative (from industry/corporate sector)	1. Mr. Gagan Virmani, NZ Technologies, E-44, Phase-8, Industrial Area, Mohali.	Member
(vii)	One post graduate meritorious alumnus	1. Dr. Gaurav Gupta, Asstt. Prof., University College of Engg., Punjabi Univ., Patiala.	Member

The main functions of BOS are as follows:

- Prepare syllabi for various courses keeping in view the objectives of the institution, interest of stakeholders and national requirements for consideration and approval of the Academic Council.
- Suggest methodologies for innovative teaching and evaluation techniques.
- Suggest panel of experts to the Academic Council for appointment as examiners.
- Coordinate research, teaching, extension and other academic activities in the department/ institution.
- The Board of studies will also suggest a panel of faculty members for setting the question papers and for appointment as External examiners for practical courses.
- Any other assignment given by the Vice-Chancellor from time to time.

Quorum:

Quorum of the Board of Studies is a minimum of half of the members of the board of Studies including the chairman, Board of Studies.

Endst. No. 1943

Dated: 09/10/15

A copy of the above is forwarded to the following for information & record please.

- All concerned,
- PS to Vice-Chancellor,
- ✓ Dean Academic Affairs,
- Director College Development Council

Sd/-
Registrar

(Signature)
Deputy Registrar (Admn.)

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18/52

**Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.**

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref. No : Notification/ 19

Dated : 07-10-15

NOTIFICATION

**Board of Studies
Information Technology
(Tenure 01.10.15 to 30.09.17)**

Courses:

1. B.Tech. (Information Technology)
2. B.Sc. (Information Technology)
3. M.Tech. (Information Technology)
4. M.Tech. (Information Technology & CW)
5. M.Sc. (Information Technology)

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.19, the following **Board of Studies in Information Technology** is hereby constituted for a period of two years (01.10.15 to 30.09.17).

Sr. No.	Nomenclature	Name & Address	Designation
(i)	Head of the Department concerned	1. Dr. Harminder Singh Bindra, Head, Department of Information Technology, MIMIT, Malout. (Ph. 9872928828).	Chairman*
(ii)	One Faculty member (of each specialization)	1. Mr. Dinesh Kumar, Associate Professor, Department of Computer Science & Engg., GZS Campus CET, Bathinda (Ph. 9417060111) dk_scorpio@rediffmail.com 2. Er. Abhilasha Jain, Head, Department of Computer Science & Engg., GZS Campus CET, Bathinda (Ph. 8872500274) ese.gzscet@gmail.com 3. Dr. Paramjeet Singh, Associate Professor, Department of Computer Science & Engg., GZS Campus CET, Bathinda (Ph. 8872500297) param2009@yahoo.com	Member(s)
(iii)	One Expert (in the subject from outside the Univ.)	1. Chhotu Sharma, CEO CS Soft Solutions Pvt. Ltd., C-133, Phase-8, Mohali. es@essoftolutions.com.	Member
(iv)	Two Experts (nominated by the Vice Chancellor)	1. Dr. Rajesh Bhatia, Professor, PEC Technological Campus, Chandigarh.	Members

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		2. Dr. Lakhwinder Kaur, Professor, Department of Computer Science, Punjabi University, Patiala.	
(v)	Two Faculty members (from affiliated/constituent Colleges)	1. Mr. Vikas Singla, Assistant Professor, MIMIT Malout. 2. Dr. Kanwalvir Singh Dhindsa, Associate professor, Department of Information Technology, BBSB Engg. College, Fatehgarh Sahib.	Members
(vi)	One representative (from industry/ corporate sector)	1. Navdeep Singh Gill, Acradian Technocrats, Ludhiana.	Member
(vii)	One post graduate meritorious alumnus	1. Mr. Sandeep Singh Kang, Project Manager, Infosys Ltd. (Ph. 9878823838)	Member

The main functions of BOS are as follows:

- Prepare syllabi for various courses keeping in view the objectives of the institution, interest of stakeholders and national requirements for consideration and approval of the Academic Council.
- Suggest methodologies for innovative teaching and evaluation techniques.
- Suggest panel of experts to the Academic Council for appointment as examiners.
- Coordinate research, teaching, extension and other academic activities in the department/ institution.
- The Board of studies will also suggest a panel of faculty members for setting the question papers and for appointment as External examiners for practical courses.
- Any other assignment given by the Vice-Chancellor from time to time.

Quorum:

Quorum of the Board of Studies is a minimum of half of the members of the board of Studies including the chairman, Board of Studies.

Self
Registrar

Estst. No. 1957

Dated: 09/10/15

A copy of the above is forwarded to the following for information & record please.

- All concerned,
- PS to Vice-Chancellor,
- Dean Academic Affairs,
- Director College Development Council

09/10/2015
Deputy Registrar (Admn.)

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(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref. No : Notification/ 19

Dated : 27-10-15

NOTIFICATION

**Board of Studies
Computer Applications
(Tenure 01.10.15 to 30.09.17)**

Courses:

1. Bachelor of Computer Applications
2. Masters of Computer Applications
3. Post Graduate Diploma in Computer Applications

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.19, the following **Board of Studies in Computer Applications** is hereby constituted for a period of two years (01.10.15 to 30.09.17).

Sr. No.	Nomenclature	Name & Address	Designation
(i)	Head of the Department concerned	1. Mr. Sanjay Bhatnagar, Head, Department of Computer Applications, GZS Campus CET, Bathinda. (Ph. 8872500265) bhatnagar.sanjay@hvtmail.com	Chairman
(ii)	One Faculty member (of each specialization)	1. Ms. Nisha Tayal, Assistant Professor, GZS Campus CET, Bathinda (Ph. 7696340632) gzsmea12@gmail.com 2. Mr. Anil Bansal, Associate Professor, SBSSTC, Ferozepur (Ph. 9463095890) bansalanil69@yahoo.com 3. Ms. Jyoti Rani, GZS Campus CET, Bathinda (Ph. 9417460026) esejyotigill@gmail.com	Member(s)
(iii)	One Expert (in the subject from outside the Univ.)	1. Dr. Sandeep Sharma, GNDU Amritsar.	Member
(iv)	Two Experts (nominated by the Vice Chancellor)	1. Dr. Anil Verma, Associate Professor, Thapar University, Patiala. akverma@thapar.edu 2. Dr. Vishal Goyal, Associate Professor, Punjabi University, Patiala.	Members

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(v)	Two Faculty members (from affiliated/constituent Colleges)	1. Dr. Gulshan Kumar, Assistant Professor, SBSSTC Ferozepur (Ph. 8146550540) gulshanahuja@gmail.com 2. Mr. Rajeev Kumar Chopra, Assistant professor, Regional Institute of Management & technology, Mandi Gohindgarh.	Members
(vi)	One representative (from industry/ corporate sector)	1. Mr. Neeraj Bhatt, AON Technologies, Gurgaon.	Member
(vii)	One post graduate meritorious alumnus	1. Mr. Sourabh Aggarwal, Aricent, Gurgaon.	Member

The main functions of BOS are as follows:

- Prepare syllabi for various courses keeping in view the objectives of the institution, interest of stakeholders and national requirements for consideration and approval of the Academic Council.
- Suggest methodologies for innovative teaching and evaluation techniques.
- Suggest panel of experts to the Academic Council for appointment as examiners.
- Coordinate research, teaching, extension and other academic activities in the department/ institution.
- The Board of studies will also suggest a panel of faculty members for setting the question papers and for appointment as External examiners for practical courses.
- Any other assignment given by the Vice-Chancellor from time to time.

Quorum:

Quorum of the Board of Studies is a minimum of half of the members of the board of Studies including the chairman, Board of Studies.

sd/-
Registrar

Endst. No. 1971

Dated: 09/10/15

A copy of the above is forwarded to the following for information & record please.

- All concerned,
- PS to Vice-Chancellor,
- Dean Academic Affairs,
- Director College Development Council

(Signature)
Deputy Registrar (Admn.)

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(22/52)

**Maharaja Ranjit Singh State Technical University,
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(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

No : Notification/ 20

Dated : 07-10-15

NOTIFICATION

**Board of Studies
Electrical Engineering
(Tenure 01.10.15 to 30.09.17)**

Courses:

1. B.Tech (Electrical Engineering)
2. B.Tech (Electrical Engineering & Industrial Control)
3. M.Tech (Electrical Engineering)

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.19, the following **Board of Studies in Electrical Engineering** is hereby constituted for a period of two years (01.10.15 to 30.09.17).

Sr. No.	Nomenclature	Name & Address	Designation
(i)	Head of the Department concerned	1. Dr. Jyoti Saxena, Head, Department of Electrical & Electronics engineering, GZS Campus CET Bathinda (Ph. 8872500262) cceptugzs@gmail.com	Chairperson
(ii)	One Faculty member (of each specialization)	1. Dr. Ruja Singh Khela, Principal, Jasdev Singh Sandhu Institute of Engg. & Tech. Kauli Patiala. (Electrical Machines) (Ph. 9915999446) 2. Dr. Lakhwinder Singh, Prof., Baba Banda Singh Badhur College of Engg. & Tech. Fathegarh Sahib (Power Systems) (Ph. 9814508213) 3. Dr. Satish Kansal, Associate Prof., Baba Hira Singh Bathal Institute of Engg & Tech. Lehragaga, Sangrur, (Electric Drives) (Ph. 9417250579) kansalbhsb@gmail.com	Member(s)
(iii)	One Expert (in the subject from outside the university)	1. Mr. Manoj Kumar Sharma, Associate Professor, Univ. Institute of Engg. & Technology, Panjab University, Chandigarh.	Member
(iv)	Two Experts (nominated by The Vice Chancellor)	1. Dr. Yadwinder Singh Brar, Professor, GNDEC, Ludhiana. braryadwinder@yahoo.co.in	Members

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		2. Dr. Sanjay Jain, Professor, Thapar University Patiala. skjain@thapar.edu	
(v)	Two Faculty members (from affiliated/constituent colleges)	1. Mr. Simerpreet Singh, Assistant Prof. & Head, EED, Bhai Gurdas Institute of Engg. & Tech., Sangrur. 2. Mr. Manmeet Singh Gill, Associate Prof., RIMT- Institute of Engineering & Technology, Mandi Gobindgarh.	Members
(vi)	One representative (from industry/corporate sector)	1. Mr. Pardeep Aggarwal, Jay Bee Industries, 5 km Stone, Malout Road, Bathinda (Ph. 9815332387) pradeep@jaybecindustries.com	Member
(vii)	One post graduate meritorious alumnus	1. Mr. Rajneesh Bansal, Regional Leader, GE Energy, Noida	Member

The main functions of BOS are as follows:

- Prepare syllabi for various courses keeping in view the objectives of the institution, interest of stakeholders and national requirements for consideration and approval of the Academic Council.
- Suggest methodologies for innovative teaching and evaluation techniques.
- Suggest panel of experts to the Academic Council for appointment as examiners.
- Coordinate research, teaching, extension and other academic activities in the department/ institution.
- The Board of studies will also suggest a panel of faculty members for setting the question papers and for appointment as External examiners for practical courses.
- Any other assignment given by the Vice-Chancellor from time to time.

Quorum:

Quorum of the Board of Studies is a minimum of half of the members of the board of Studies including the chairman, Board of Studies.

S/H
Registrar

Endst. No. 1985

Dated: 09/10/15

A copy of the above is forwarded to the following for information & record please.

- All concerned,
- PS to Vice-Chancellor,
- ✓ 3. Dean Academic Affairs,
4. Director College Development Council

Abhi
Deputy Registrar (Admn.)

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**Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.**

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

No : Notification/ 21

Dated : 07-10-15

NOTIFICATION

**Board of Studies
Electronics Engineering
(Tenure 01.10.15 to 30.09.17)**

Courses:

1. B.Tech. (Electronics & Communication Engineering)
2. B.Tech. (Electronics & Tele-Communication Engineering)
3. B.Tech. (Electronics & Instrumentation Engineering)
4. M.Tech. (Electronics & Communication Engineering)
5. M.Tech. (Microelectronics)

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.19, the following **Board of Studies in Electronics Engineering** is hereby constituted for a period of two years (01.10.15 to 30.09.17).

Sr. No.	Nomenclature	Name & Address	Designation
(i)	Head of the Department concerned	1. Dr. Jyoti Saxena, Head, Department of Electrical & Electronics engineering, GZS Campus CET Bathinda (Ph. 8872500262) cceptugzs@gmail.com	Chairperson
(ii)	One Faculty member (of each specialization)	1. Dr. Savina Bansal, Professor, Department of Electronics, GZS Campus CET Bathinda (Ph. 8146600954) savina.bansal@gmail.com 2. Dr. Ashok K. Goyal, Professor, Department of Electronics, GZS Campus CET Bathinda (Ph. 8872500259) ashokkgoyal@gmail.com 3. Dr. Balraj Singh Sidhu, Associate Professor, GZS Campus CET Bathinda (Ph. 9876006758) drbss.sidhu@gmail.com	Member(s)
(iii)	One Expert (in the subject from outside the Univ.)	1. Dr. Manjeet S. Patterh, Professor, Punjabi University, Patiala (Ph. 0175-3046323) mspattar@yahoo.com	Member
(iv)	Two Experts (nominated by the Vice Chancellor)	1. Dr. Amit K. Garg, Professor, Deenbandhu Chhotu Ram University, Sonapat (Ph. 8901124120) garg_amit03@yahoo.co.in	Members

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		2. Dr. Rakesh Bansal, Professor, Department of Electronics, GZS Campus CET Bathinda (Ph. 9463000954) drakeshbansal@gmail.com	
(v)	Two Faculty members (from affiliated/constituent Colleges)	1. Dr. Satvir Singh, Professor, Department of ECE, SBSSTC Ferozepur (Ph. 8427680001) satvir15@gmail.com 2. Dr. Hardeep Singh Ryait, Associate professor, BBSB CET Fatehgarh Sahib. hardeepstryait@bbsbec.ac.in	Members
(vi)	One representative (from industry/corporate sector)	1. Mr. Amit Singal, DGM (CFE-North), BSNL. (Ph. 0164-2549000)	Member
(vii)	One post graduate meritorious alumnus	1. Mr. Manish Goyal, Head of Education Centre, Apple India Pvt. Ltd, N. Delhi.	Member

The main functions of BOS are as follows:

- Prepare syllabi for various courses keeping in view the objectives of the institution, interest of stakeholders and national requirements for consideration and approval of the Academic Council.
- Suggest methodologies for innovative teaching and evaluation techniques.
- Suggest panel of experts to the Academic Council for appointment as examiners.
- Coordinate research, teaching, extension and other academic activities in the department/ institution.
- The Board of studies will also suggest a panel of faculty members for setting the question papers and for appointment as External examiners for practical courses.
- Any other assignment given by the Vice-Chancellor from time to time.

Quorum:

Quorum of the Board of Studies is a minimum of half of the members of the board of Studies including the chairman, Board of Studies.

Endst. No. 1999

Dated: 09/10/15

Sd/-
Registrar

A copy of the above id forwarded to the following for information & record please.

- All concerned,
- PS to Vice-Chancellor,
- ✓ Dean Academic Affairs,
- Director College Development Council

(Signature)
Deputy Registrar (Admn.)

Maharaja Ranjit Singh State Technical University, Bathinda
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**Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.**

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

No : Notification/ 23

Dated : 07-10-15

NOTIFICATION

**Board of Studies
Electrical & Electronics Engineering
(Tenure 01.10.15 to 30.09.17)**

Course:

I. B.Tech. (Electrical & Electronics Engineering)

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.19, the following **Board of Studies in Electrical & Electronics Engineering** is hereby constituted for a period of two years (01.10.15 to 30.09.17).

Sr. No.	Nomenclature	Name & Address	Designation
(i)	Head of the Department concerned	1. Dr. Jyoti Saxena, Head, Department of Electrical & Electronics engineering, GZS Campus CET Bathinda (Ph. 8872500262) eeptugzs@gmail.com	Chairperson
(ii)	One Faculty member (of each specialization)	1. Dr. Raja Singh Khela, Principal, Jasdev Singh Sandhu Institute of Engg. & Technology, Kauli, Patiala (Electrical Machines). (Ph. 9915999446) 2. Dr. Balraj Singh Sidhu, Associate Professor, GZS Campus CET Bathinda (Ph. 9876006758) drbss.sidhu@gmail.com 3. Dr. A.S. Buttar, Associate Professor, PIT Kapurthala (Ph. 9815925088) danshavtar@rediffmail.com	Member(s)*
(iii)	One Expert (in the subject from outside the Univ.)	1. Dr. K.S. Sandhu, Professor, NIT, Kurukshetra (Ph. 01744233303) kjssandhu@rediffmail.com	Member
(iv)	Two Experts (nominated by the Vice Chancellor)	1. Dr. Yadwinder Singh Brar, Professor, GNDEC Ludhiana. braryadwinder@yahoo.co.in 2. Dr. Lakhwinder Singh, Professor, BBSB CET Fatehgarh Sahib (Ph. 9814508213)	Members

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(v)	Two Faculty members (from affiliated/constituent Colleges)	1. Dr. Satvir Singh, Professor, Department of ECE, SBSSTC Ferozepur (Ph. 8427680001) satvir15@gmail.com 2. Dr. Satish Kansal, Associate Professor, Baba Hira Singh Bhattal Institute of Engg. & Technology, Lehragaga, Sangrur (Ph. 9417250579) kansalbhsh@gmail.com	Members
(vi)	One representative (from industry/corporate sector)	1. Mr. Ameet Sharma, Honeywell Corporation, Gurgaon.	Member
(vii)	One post graduate meritorious alumnus	1. Mr. Vaneet Bansal, Deputy Manager Engineering, Indian Oil Corporation Limited.	Member

The main functions of BOS are as follows:

- Prepare syllabi for various courses keeping in view the objectives of the institution, interest of stakeholders and national requirements for consideration and approval of the Academic Council.
- Suggest methodologies for innovative teaching and evaluation techniques.
- Suggest panel of experts to the Academic Council for appointment as examiners.
- Coordinate research, teaching, extension and other academic activities in the department/ institution.
- The Board of studies will also suggest a panel of faculty members for setting the question papers and for appointment as External examiners for practical courses.
- Any other assignment given by the Vice-Chancellor from time to time.

Quorum:

Quorum of the Board of Studies is a minimum of half of the members of the board of Studies including the chairman, Board of Studies.

Endst. No. 2013

Dated: 09/10/15

Sd/-
Registrar

A copy of the above id forwarded to the following for information & record please.

- All concerned.
- PS to Vice-Chancellor,
- Dean Academic Affairs.
- Director College Development Council

[Signature]
Deputy Registrar (Admn.)

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**Maharaja Ranjit Singh State Technical University,
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(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

No : Notification/ 23

Dated : 07-10-15

NOTIFICATION

**Board of Studies
Mechanical Engineering
(Tenure 01.10.15 to 30.09.17)**

Courses:

1. B.Tech. (Mechanical Engineering)
2. B.Tech. (Automobile Engineering)
3. B.Tech. (Automotive Engineering)
4. B.Tech. (Industrial Engineering)
5. M.Tech. (Mechanical Engineering)
6. M.Tech. (CAD/CAM),
7. M.Tech. (Thermal)
8. M.Tech. (Production)

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.19, the following **Board of Studies in Mechanical Engineering** is hereby constituted for a period of two years (01.10.15 to 30.09.17).

Sr. No.	Nomenclature	Name & Address	Designation
(i)	Head of the Department concerned	1. Mr. Surinder Singh, Head, Department of ME, GZS Campus CET Bathinda (Ph. 8872500264) barnalass17@yahoo.com	Chairman
(ii)	One Faculty member (of each specialization)	1. Dr. Balwinder Singh, Associate Professor, Department of Mech. Engg. GZS Campus CET Bathinda (Ph. 8872500275) drbwssidhu07@gmail.com 2. Mr. Charanjit Singh, Associate Professor, Department of Mechanical Engineering, GZS Campus CET Bathinda (Ph. 8195888988) charanjitmech@gmail.com 3. Mr. Naveen Singla, Associate Professor, Deptt. Mech. Engg., GZS Campus CET Bathinda (Ph. 9463259653) single.naveen2@gmail.com	Member(s)
(iii)	One Expert (in subject from outside the Univ.)	1. Dr. J.S. Khamba, Professor, Punjabi University, Patiala (Ph. 9872979070) jskhamba@gmail.com	Member

**Maharaja Ranjit Singh State Technical University, Bathinda
Ph. 0164-2280197, Fax 0164-2280164, Email: reg@mrsstu.ac.in**

29/5/15

(iv)	Two Experts (nominated by the Vice Chancellor)	1. Dr. Harmesh Kansal, Univ. Institute of Engineering & Tech., Panjab Univ., Chd. 2. Dr. Sehajpal Singh, Professor, GNDEC Ludh. (9855279865) meeh@gndec.ac.in	Members
(v)	Two Faculty members (from affiliated/constituent Colleges)	1. Dr. Rajesh Gupta, Associate Professor, ME, GZS Campus CET Bathinda (Ph. 8872500261) rg91@rediffmail.com 2. Dr. Amampreet Singh Sethi, Professor, BBSB CET Fatehgarh Sahib (Ph. 9855043335) ups.sethi@bbsbec.ac.in	Members
(vi)	One representative (from industry/ corporate sector)	1. Dr. Sunil Prakash, Plant Head, Ambuja Cement Bathinda.	Member
(vii)	One post graduate meritorious alumnus	1. Dr. Ajay Batish, Professor, Thapar University, Patiala. abatish@thapar.edu	Member

The main functions of BOS are as follows:

- Prepare syllabi for various courses keeping in view the objectives of the institution, interest of stakeholders and national requirements for consideration and approval of the Academic Council.
- Suggest methodologies for innovative teaching and evaluation techniques.
- Suggest panel of experts to the Academic Council for appointment as examiners.
- Coordinate research, teaching, extension and other academic activities in the department/ institution.
- The Board of studies will also suggest a panel of faculty members for setting the question papers and for appointment as External examiners for practical courses.
- Any other assignment given by the Vice-Chancellor from time to time.

Quorum:

Quorum of the Board of Studies is a minimum of half of the members of the board of Studies including the chairman, Board of Studies.

Sd/-
Registrar

Endst. No. 2027

Dated: 09/10/15

A copy of the above id forwarded to the following for information & record please.

- All concerned,
- PS to Vice-Chancellor,
- ✓ Dean Academic Affairs,
- Director College Development Council

(Signature)
Deputy Registrar (Admn.)

Maharaja Ranjit Singh State Technical University, Bathinda
Ph. 0164-2289197, Fax 0164-2280164, Email: reg@mrsstu.ac.in

30/53

**Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.**

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref. No : Notification/ 24

Dated : 07-10-15

NOTIFICATION

**Board of Studies
Marine Engineering
(Tenure 01.10.15 to 30.09.17)**

Course:

I. B.Tech. (Marine Engineering)

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.19, the following **Board of Studies in Marine Engineering** is hereby constituted for a period of two years (01.10.15 to 30.09.17).

Sr. No.	Nomenclature	Name & Address	Designation
(i)	Head of the Department concerned	1. Mr. Surinder Singh, Head, Department of Mechanical Engineering, GZS Campus CET Bathinda (Ph. 8872500264) barnalass17@yahoo.com	Chairman
(ii)	One Faculty member (of each specialization)	1. Dr. Balwinder Singh, Associate Professor, Department of Mechanical Engineering, GZS Campus CET Bathinda (Ph. 8872500275) drbwssidhu07@gmail.com 2. Mr. Subhash Kumar, Assistant Professor, Marine Engineering, Gurukul Vidhyapeeth Institute of Engg. & Tech., Banur. 3. Mr. Naveen Singla, Associate Professor, Department of Mechanical Engineering, GZS Campus CET Bathinda (Ph. 9463259653) single.naveen2@gmail.com	Member(s)
(iii)	One Expert (in the subject from outside the Univ.)	1. Dr. Harmesh Kansal, ME, University Institute of Engineering & Technology, Panjab University, Chandigarh.	Member
(iv)	Two Experts (nominated by the Vice Chancellor)	1. Mr. Varun Kapoor, Toshiba JSW Power Systems, Pvt. Limited, A/149, Shyam Park Extension, Sahibabad. 2. Dr. Rupinder Singh, GNDEC Ludhiana (Ph. 8427000490) rupinderhillon87@yahoo.co.in	Members

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(v)	Two Faculty members (from affiliated/constituent Colleges)	1. Dr. Rajesh Gupta, Associate Professor, Department of Mechanical Engineering, GZS Campus CET Bathinda (Ph. 8872500261) rg91@rediffmail.com 2. Mr. Rajpreet Singh, Assistant Professor, Gurukul Vidhyapeeth Institute of Engg. & Tech., Banur.	Members
(vi)	One representative (from industry/ corporate sector)	1. Dr. Sunil Prakash, Plant Head, Ambuja Cement Bathinda.	Member
(vii)	One post graduate meritorious alumnus	1. Mr. Gunchetan Singh, Design Engineer, Bechtel India Pvt., Limited, Flat 1160, Sector 15, Part-2, Gurgaon.	Member

The main functions of BOS are as follows:

- Prepare syllabi for various courses keeping in view the objectives of the institution, interest of stakeholders and national requirements for consideration and approval of the Academic Council.
- Suggest methodologies for innovative teaching and evaluation techniques.
- Suggest panel of experts to the Academic Council for appointment as examiners.
- Coordinate research, teaching, extension and other academic activities in the department/ institution.
- The Board of studies will also suggest a panel of faculty members for setting the question papers and for appointment as External examiners for practical courses.
- Any other assignment given by the Vice-Chancellor from time to time.

Quorum:

Quorum of the Board of Studies is a minimum of half of the members of the board of Studies including the chairman, Board of Studies.

Endst. No. 2041

Dated: 09/10/15

A copy of the above id forwarded to the following for information & record please.

- All concerned,
- PS to Vice-Chancellor,
- Dean Academic Affairs,
- Director College Development Council

sl/-
Registrar

Abhi
Deputy Registrar (Admn.)

Maharaja Ranjit Singh State Technical University, Bathinda
Ph. 0164-2280197, Fax 0164-2280164, Email: reg@mrstu.ac.in

32/53

**Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.**

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref. No : Notification/ 25

Dated : 07-10-15

NOTIFICATION

Board of Studies

Aeronautical/Aerospace/Aircraft Maintenance

(Tenure 01.10.15 to 30.09.17)

Courses:

1. B. Tech in Aeronautical Engineering
2. B. Tech in Aerospace Engineering
3. B. Tech in Aircraft Maintenance Engineering

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.19, the following **Board of Studies in Aeronautical/Aerospace/Aircraft Maintenance** is hereby constituted for a period of two years (01.10.15 to 30.09.17).

Sr. No.	Nomenclature	Name & Address	Designation
(i)	Head of the Department concerned	1. Er. Bhiwani Singh Head, Department of Aerospace and Aeronautical Engineering Er. Bhiwani Singh Head, Department of Aerospace and Aeronautical Engineering, Gurukul Vidhyapeeth Institute of Engineering & Technology, Banur. (Ph. 01762-264400)	Chairman
(ii)	One Faculty member (of each specialization)	1. Er. Mohinder Singh, Professor, Aeronautical Engineering, Gurukul Vidhyapeeth Institute of Engineering & Technology, Banur 2. Dr. Kishori Lal, PEC University of Technology, Chandigarh (Ph. 9815375469) kishorilal@pec.ac.in	Member(s)
(iii)	One Expert (in the subject from outside the Univ.)	1. Mr. A. Rampal, Scientist F, TBRL, DRDO Chandigarh	Member
(iv)	Two Experts (nominated by the Vice Chancellor)	1. Mr. Rakesh Kumar, Assistant Professor, PEC University of Technology, Chandigarh. (Ph. 9878215676) rakeshkumar@pec.ac.in. 2. Mr. Rajesh Kumar, Assistant Professor, PEC University of Technology, Chandigarh (Ph. 0172-2753269)	Members

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33/53

(v)	Two Faculty members (from affiliated/constituent Colleges)	1. Mr. M. D. Sarwar, Associate Professor, Gurukul Vidhyapeeth Institute of Engineering & Technology, Banur 2. Mr. Tejinder Kumar Jindal, Assistant Professor, PEC University of Technology, Chandigarh (Ph. 9417133408) tkjindal@pec.e.in	Members
(vi)	One representative (from industry/ corporate sector)	1. Dr. Om Prakash, Head Aerospace Engineering Department, University of Petroleum and Energy Studies, Dehradun	Member
(vii)	One post graduate meritorious alumnus	1. Mr. Sudhir Joshi, Assistant professor, Aerospace Engineering Department, University of Petroleum and Energy Studies, Dehradun.	Member

The main functions of BOS are as follows:

- Prepare syllabi for various courses keeping in view the objectives of the institution, interest of stakeholders and national requirements for consideration and approval of the Academic Council.
- Suggest methodologies for innovative teaching and evaluation techniques.
- Suggest panel of experts to the Academic Council for appointment as examiners.
- Coordinate research, teaching, extension and other academic activities in the department/ institution.
- The Board of studies will also suggest a panel of faculty members for setting the question papers and for appointment as External examiners for practical courses.
- Any other assignment given by the Vice-Chancellor from time to time.

Quorum:

Quorum of the Board of Studies is a minimum of half of the members of the board of Studies including the chairman, Board of Studies.

Sd/-
Registrar

Enclst. No. 2054

Dated: 09/10/15

A copy of the above id forwarded to the following for information & record please.

- All concerned,
- PS to Vice-Chancellor,
- Dean Academic Affairs,
- Director College Development Council

Gdhit
= 2/10/2015
Deputy Registrar (Admn.)

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Ph. 0164-2280197, Fax 0164-2280164, Email: reg@nrsstu.ac.in

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**Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.**

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref. No : Notification/ 26

Dated : 07-10-15

NOTIFICATION

Board of Studies

Petrochemicals & Petroleum Refinery Engineering

(Tenure 01.10.15 to 30.09.17)

Course:

I. B.Tech. (Petrochemicals & Petroleum Refinery Engineering)

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.19, the following **Board of Studies in Petrochemicals & Petroleum Refinery Engineering** is hereby constituted for a period of two years (01.10.15 to 30.09.17).

Sr. No.	Nomenclature	Name & Address	Designation
(i)	Head of the Department concerned	1. Prof. G. S Bath, Head, Dept. of Civil Engineering, GZS Campus CET, Bathinda (Ph. 9417171710) gpsbath66@gmail.com	Chairman
(ii)	One Faculty member (of each specialization)	1. Mr. Gaurav Kumar, Associate Professor, Gurukul Vidhyapeeth Institute of Engineering & Technology, Banur 2. Mr. Mudit Jain, Associate Professor, Gurukul Vidhyapeeth Institute of Engineering & Technology, Banur	Member(s)
(iii)	One Expert (in the subject from outside the Univ.)	1. Dr. R. K. Tripathi, Associate Professor, University of Petroleum and Energy Studies, Dehradun	Member
(iv)	Two Experts (nominated by the Vice Chancellor)	1. Dr. Dharmendra Kumar Gupta, Professor, University of Petroleum and Energy Studies, Dehradun 2. Er. Ashish Aggarwal, University of Petroleum and Energy Studies, Dehradun	Members
(v)	Two Faculty members (from affiliated/constituent Colleges)	1. Mr. Anil Aggarwal Assistant Professor, Gurukul Vidhyapeeth Institute of Engineering & Technology, Banur 2. Dr. Sanjiv Aggarwal, Associate Professor, Dept. of Civil Engineering, GZS Campus CET, Bathinda (Ph. 9478022281) sanjiv_aggarwal@rediffmail.com	Members

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Ph. 0164-2280197, Fax 0164-2280164, Email: reg@mrsstu.ac.in

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(vi)	One representative (from industry/ corporate sector)	1. Mr. Gaurav Kumar Gupta, AGM-SFSG HPCL Mittal Energy Ltd., (Ph. 9988883145) gauravk.gupta@hmel.in.	Member
(vii)	One post graduate meritorious alumnus	1. Mr. Daljit Singh, AGM Maintenance, HPCL Mittal Energy Ltd., (Ph. 9988887610) daljit.singh@hmel.in.	Member

The main functions of BOS are as follows:

- Prepare syllabi for various courses keeping in view the objectives of the institution, interest of stakeholders and national requirements for consideration and approval of the Academic Council.
- Suggest methodologies for innovative teaching and evaluation techniques.
- Suggest panel of experts to the Academic Council for appointment as examiners.
- Coordinate research, teaching, extension and other academic activities in the department/ institution.
- The Board of studies will also suggest a panel of faculty members for setting the question papers and for appointment as External examiners for practical courses.
- Any other assignment given by the Vice-Chancellor from time to time.

Quorum:

Quorum of the Board of Studies is a minimum of half of the members of the board of Studies including the chairman, Board of Studies.

Sd/-
Registrar

Endst. No. 2067

Dated: 09/10/15

A copy of the above id forwarded to the following for information & record please.

- All concerned,
- PS to Vice-Chancellor,
- Dean Academic Affairs,
- Director College Development Council

Shiv
07/10/2015
Deputy Registrar (Admn.)

Maharaja Ranjit Singh State Technical University, Bathinda
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36/53

**Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.**

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref. No : Notification/ 37

Dated : 07-10-15

NOTIFICATION

**Board of Studies
Hospitality & Tourism Management
(Tenure 01.10.15 to 30.09.17)**

Courses:

- 1. B.Sc. (Airline Tourism & Hospitality Management)
- 2. B.Sc. (Hotel Management and Catering Technology)

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.19, the following **Board of Studies in Hospitality & Tourism**

Management is hereby constituted for a period of two years (01.10.15 to 30.09.17).

Sr. No.	Nomenclature	Name & Address	Designation
(i)	Head of the Department concerned	1. Mr. Raghav Sharma, Head, Dept. of Airline Tourism & Hospitality Management, Desh Bhagat Foundation Group of Institutions, Moga (Ph. 8284900263)	Chairman
(ii)	One Faculty member (of each specialization)	1. Ms. Tarunvir Kaur, Assistant Professor, Desh Bhagat Foundation Group of Institutions, Moga 2. Mrs. Bharati Tyagi, Principal, Dr. Ambedkar Institute of Hotel Management, Chandigarh, Sector 42-D, Chd. 3. Mr. Arun Singh Thakur, Assistant Professor, UIHMT, Panjab University Chandigarh (Ph. 9465226116) arunthakur@pu.ac.in	Member(s)
(iii)	One Expert (in the subject from outside the Univ.)	1. Ms. Meenakshi Mallhotra, Principal, UIHMT, Panjab University Chandigarh (Ph. 9888081002) uihmt@pu.ac.in	Member
(iv)	Two Experts (nominated by the Vice Chancellor)	1. Mrs. Bhanu Vig, Principal, Sri Sukhmani Institute of Hotel Management, Dera Bassi 2. Mr. T. K. Razhdan, Principal, Chandigarh College of Hotel Management.	Members
(v)	Two Faculty members (from affiliated/constituent Colleges)	1. Mr. Ranjit Singh, Assistant Professor, Desh Bhagat Foundation Group of Institutions, Moga	Members

Maharaja Ranjit Singh State Technical University, Bathinda
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		2. Mr. Gurdyal Singh Sidhu, Assistant Professor, Surya Educational & Charitable Trust Group of institutions, Shambhu, Rajpura	
(vi)	One representative (from industry/ corporate sector)	1. Dr. Prashant Kumar Gautam, Associate Professor, UIHMT, Panjab University Chandigarh (Ph. 9815976444) prashantgautam@pu.ac.in	Member
(vii)	One post graduate meritorious alumnus	1. Mr. Naveen Nanchahal, Principal, Dr. Ambedkar Institute of Hotel Management, Sector 42-D, Chandigarh (Ph. 0172-2604833) jhmcld@yahoo.com, aihm_cld@yahoo.com	Member

The main functions of BOS are as follows:

- Prepare syllabi for various courses keeping in view the objectives of the institution, interest of stakeholders and national requirements for consideration and approval of the Academic Council.
- Suggest methodologies for innovative teaching and evaluation techniques.
- Suggest panel of experts to the Academic Council for appointment as examiners.
- Coordinate research, teaching, extension and other academic activities in the department/ institution.
- The Board of studies will also suggest a panel of faculty members for setting the question papers and for appointment as External examiners for practical courses.
- Any other assignment given by the Vice-Chancellor from time to time.

Quorum:

Quorum of the Board of Studies is a minimum of half of the members of the board of Studies including the chairman, Board of Studies.

Enclst. No. 2081

Dated: 09/10/15

Sd/-
Registrar

A copy of the above is forwarded to the following for information & record please.

- All concerned,
- PS to Vice-Chancellor,
- Dean Academic Affairs,
- Director College Development Council

Sd/-
27/10/2015
Deputy Registrar (Admn.)

Maharaja Ranjit Singh State Technical University, Bathinda
Ph. 0164-2280197, Fax 0164-2280164, Email: reg@mrsstu.ac.in

38/52

**Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.**

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref. No : Notification/ 330

Dated : 07-10-15

NOTIFICATION

**Board of Studies
Commerce & Business Management
(Tenure 01.10.15 to 30.09.17)**

Courses:

- 1. Bachelor in Business Administration ✓
- 2. B.Com, B.Com (Professional)
- 3. M.Com, M.com (Professional)
- 4. Master's in Business Administration ✓
- 5. Post Graduate Diploma (Management)

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.19, the following **Board of Studies in Commerce & Business Management** is hereby constituted for a period of two years (01.10.15 to 30.09.17).

Sr. No.	Nomenclature	Name & Address	Designation
(i)	Head of the Department concerned	1. Dr. Suman Kathuria, GZS Campus CET, Dabwali Road, Bathinda (Ph. 8872500270) suman_kathuria@yahoo.co.in	Chairperson
(ii)	One Faculty member (of each specialization)	1. Dr. Veerpal Kaur Associate Professor, GZS Campus CET, Dabwali Road, Bathinda (Ph. 9814503254) veerpalkaur1@rediffmail.com 2. Dr. Sukhwinder Kaur Dhanda, Assistant Professor, BBSBEC, Fatehgarh Sahib, subkhwinder.dhanda@bbsbec.ac.in	Member(s)
(iii)	One Expert (in the subject from outside the Univ.)	1. Dr. Akshay K. Dhingra, Professor, Thapar University, Patiala. akdhingra@thapar.edu	Member
(iv)	Two Experts (nominated by the Vice-Chancellor)	1. Dr. R. K. Mahajan, Professor, Punjabi University Regional Centre, Bathinda 2. Dr. Mrs. Ravi Kiran, Professor, School of Humanities and Social Sciences, Thapar University, Patiala. rkiran@thapar.edu	Members

Maharaja Ranjit Singh State Technical University, Bathinda
Ph. 0164-2280197, Fax 0164-2280164, Email: reg@mrsstu.ac.in

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(v)	Two Faculty members (from affiliated/constituent Colleges)	1. Dr. Manvidar Tandon, Director & Prof. RIMT Institute of Management and Computer Technology, Mandi Gobindgarh 2. Dr. Manish Bansal, Associate Professor, MIMT, Malout (Ph. 9356937037) bansal_mimit@yahoo.com	Members
(vi)	One representative (from industry/ corporate sector)	1. Mr. Manoj Kumar Bagla, Vice President, HR & Admin (Corporate), Samrat Plywood Limited, Plot No. 182/11, Industrial Area, Phase 1, Chandigarh. (Ph. 9501025840) bagla@samratply.in	Member
(vii)	One post graduate meritorious alumnus	1. Mr. Nitin Jindal, Area Manager, Zee Education, Patiala	Member

The main functions of BOS are as follows:

- Prepare syllabi for various courses keeping in view the objectives of the institution, interest of stakeholders and national requirements for consideration and approval of the Academic Council.
- Suggest methodologies for innovative teaching and evaluation techniques.
- Suggest panel of experts to the Academic Council for appointment as examiners.
- Coordinate research, teaching, extension and other academic activities in the department/ institution.
- The Board of studies will also suggest a panel of faculty members for setting the question papers and for appointment as External examiners for practical courses.
- Any other assignment given by the Vice-Chancellor from time to time.

Quorum:

Quorum of the Board of Studies is a minimum of half of the members of the board of Studies including the chairman, Board of Studies.

sd/-
Registrar

Encl. No. 2094

Dated: 09/10/15

A copy of the above is forwarded to the following for information & record please.

- All concerned.
- PS to Vice-Chancellor,
- Dean Academic Affairs,
- Director College Development Council

[Signature]
Deputy Registrar (Admn.)

Maharaja Ranjit Singh State Technical University, Bathinda
Ph. 0164-2280197, Fax 0164-2280164, Email: reg@mrstu.ac.in

40/53

**Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.**

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref. No : Notification/ 29

Dated : 27-10-15

NOTIFICATION

**Board of Studies
Humanities & Social Studies
(Tenure 01.10.15 to 30.09.17)**

Courses:

1. B.Se. (Mass Communication)
2. Humanities and Social Studies subjects offered in other courses offered in the University

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.19, the following **Board of Studies in Humanities & Social Studies** is hereby constituted for a period of two years (01.10.15 to 30.09.17).

Sr. No.	Nomenclature	Name & Address	Designation
(i)	Head of the Department concerned	1. Dr. Raminder Pal Singh, Head, Dept. of Humanities and Social Studies, SBSSTC, Ferozepur (Ph. 8054011077) rpsinghromy@gmail.com	Chairman
(ii)	One Faculty member (of each specialization)	1. Dr. Mrs. Ravi Kiran, Professor, Thapar University, Patiala (Industrial Management, IPRs, Business Economics) rkiran@thapar.edu 2. Dr. Mohammad Arif, Associate Professor, RIMT- Institute of Engineering & Technology	Member(s)
(iii)	One Expert (in the subject from outside the Univ.)	1. Dr. Santha Kumari, Professor, Thapar University, Patiala. santha@thapar.edu	Member
(iv)	Two Experts (nominated by the Vice Chancellor)	1. Dr. Navjit S. Johal, Prof. Punjabi University, Patiala 2. Mr. Sanjay Wadwalkar, Professor, School of Communication Studies, Panjab University, Chandigarh (Ph. 9464250408) sanwad@pu.ac.in	Members
(v)	Two Faculty members (from	1. Dr. B.S. Brar, Associate Professor, Adesh Institute of Engineering & Technology, Faridkot	Members

Maharaja Ranjit Singh State Technical University, Bathinda
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	affiliated/constituent Colleges)	2. Mr. Mohit Kumar, Assistant Professor, MIMIT Malout (Ph. 9872266003) mohit_es@rediffmail.com	
(vi)	One representative (from industry/ corporate sector)	1. Mr. Chanchal Jindal, MD PP Industries, Industrial Area, Bathinda. (Ph. 9876532835).	Member
(vii)	One post graduate meritorious alumnus	1. Mr. Sunny Behal, Assistant Professor, Department of Computer Sc. & Engg., SBSSFC Ferozpur (Ph. 8288012007) sunnybehal@rediffmail.com	Member

The main functions of BOS are as follows:

- Prepare syllabi for various courses keeping in view the objectives of the institution, interest of stakeholders and national requirements for consideration and approval of the Academic Council.
- Suggest methodologies for innovative teaching and evaluation techniques.
- Suggest panel of experts to the Academic Council for appointment as examiners.
- Coordinate research, teaching, extension and other academic activities in the department/ institution.
- The Board of studies will also suggest a panel of faculty members for setting the question papers and for appointment as External examiners for practical courses.
- Any other assignment given by the Vice-Chancellor from time to time.

Quorum:

Quorum of the Board of Studies is a minimum of half of the members of the board of Studies including the chairman, Board of Studies.

Sd/-
Registrar

Enrst. No. 3107

Dated: 09/10/15

A copy of the above id forwarded to the following for information & record please.

- All concerned,
- PS to Vice-Chancellor,
- Dean Academic Affairs,
- Director College Development Council

(Signature)
09/10/2015
Deputy Registrar (Admn.)

Maharaja Ranjit Singh State Technical University, Bathinda
Ph. 0164-2280137, Fax 0164-2280164, Email: reg@mrstu.ac.in

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**Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.**

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref. No : Notification/ 30

Dated : 07-10-15

NOTIFICATION

**Board of Studies
Pharmacy
(Tenure 01.10.15 to 30.09.17)**

Courses:

- | | |
|----------------------------------------------------------|-------------------------------------|
| 1. Pharmacy D | 7. M. Pharmacy (Pharmacology) |
| 2. Pharmacy D (Post Baccalaureate) | 8. M. Pharmacy (Pharmacognosy) |
| 3. B. Pharmacy | 9. M. Pharmacy (Analysis) |
| 4. M. Pharmacy | 10. M. Pharmacy (Quality Assurance) |
| 5. M. Pharmacy (Pharmaceutics)
Technology) | 11. B.Sc. (Medical Laboratory |
| 6. M. Pharmacy (Pharmaceutical Chemistry)
Technology) | 12. B.Sc. (Medical Laboratory |

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.19, the following **Board of Studies in Pharmacy** is hereby constituted for a period of two years (01.10.15 to 30.09.17).

Sr. No.	Nomenclature	Name & Address	Designation
(i)	Head of the Department concerned	1. Prof. (Dr.) N.K. Jain, ISF College of Pharmacy, Ferozepur, GT Road, Ghal Kalam, Moga (Ph. 8054114006) dr.jnarendr@gmail.com	Chairman
(ii)	One Faculty member (of each specialization)	1. Dr. H.S. Lamba, Professor Lala Lajpat Rai College of Pharmacy, Moga (Pharmacognosy, Pharma Sciences)	Member(s)
(iii)	One Expert (in the subject from outside the Univ.)	1. Dr. Anupam Sharma, Professor, UIPS, Panjab University, Chandigarh (Ph. 9872021661)	Member
(iv)	Two Experts (nominated by the Vice Chancellor)	1. Dr. R.V. Pradeep Chandran, Director-Principal, Bahra Institute of Pharmacy, Vill. Bhedpur, Distt. Patiala 2. Dr. Abdul Farooq Head, Dept. of Pharmaceutics Sciences, HNBU, Garhwal	Members
(v)	Two Faculty members (from	1. Dr. Amit Kumar Goyal, Professor, ISF College of Pharmacy, Ferozepur, G.T.	Members

Maharaja Ranjit Singh State Technical University, Bathinda
Ph. 0164-2280197, Fax 0164-2280164, Email: reg@mrsstu.ac.in

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	affiliated/constituent Colleges)	Road, Vill. Ghall Kalan, Moga (Ph. 9878286888) goyaldrl@gmail.com 2. Dr. B.S. Bajwa, Professor, Lala Lajpat Rai College of Pharmacy Moga (Ph'ceutic Chemistry)	
(vi)	One representative (from industry/ corporate sector)	1. Dr. A.S. Mann, Professor, BIS College of Pharmacy, Gagra Moga (Pharmacognocoy)	Member
(vii)	One post graduate meritorious alumnus	1. Dr. Ashish Baldi, Principal ISF College of Pharmacy, Ferozepur, GT Road, Vill. Ghall Kalan, Moga (Ph. 8968423848) principal.isfcp@gmail.com	Member

The main functions of BOS are as follows:

- Prepare syllabi for various courses keeping in view the objectives of the institution, interest of stakeholders and national requirements for consideration and approval of the Academic Council.
- Suggest methodologies for innovative teaching and evaluation techniques.
- Suggest panel of experts to the Academic Council for appointment as examiners.
- Coordinate research, teaching, extension and other academic activities in the department/ institution.
- The Board of studies will also suggest a panel of faculty members for setting the question papers and for appointment as External examiners for practical courses.
- Any other assignment given by the Vice-Chancellor from time to time.

Quorum:

Quorum of the Board of Studies is a minimum of half of the members of the board of Studies including the chairman, Board of Studies.

S//
Registrar

Enclst. No. 3119

Dated: 09/10/15

A copy of the above id forwarded to the following for information & record please.

- All concerned,
- PS to Vice-Chancellor,
- Dean Academic Affairs,
- Director College Development Council

(Signature)
Deputy Registrar (Admin.)

Maharaja Ranjit Singh State Technical University, Bathinda
Ph. 0164-2280197, Fax 0164-2280164, Email: reg@mrsstu.ac.in

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Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Prof. (Dr.) Jasbir S. Hundal
Registrar

Ref No : Reg/_____

Dated : _____

To

Dr. Ashish Baldi
Principal & Professor,
HOD, Deptt. of Quality Assurance,
I.S.F. College of Pharmacy,
Ferozepur Road, Ghal Kalan,
Moga-142001.

Sub: Regarding Nomination/Appointment as Dean, Faculty of Pharmacy, Maharaja Ranjit Singh State Technical University, Bathinda.

Dear Sir,

It is a great honour for me to inform you that recognizing your contribution in Teaching and Research & Development in the field of Pharmacy, the Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda has decided to nominate you for the post of Dean, Faculty of Pharmacy with immediate effect for a tenure of 02 years.

In addition, you are also appointed as Chairman, Board of Studies in Pharmacy with immediate effect.

As we are in the process of establishing new University, the curriculum revision for ongoing UG, PG courses is to be undertaken; new Ph.D ordinances are to be framed. New UG and PG courses to be offered by the University are to be finalized alongwith the establishment of Research & Development Centre. Therefore, your valuable inputs and guidance as Dean, Faculty of Pharmacy and Chairman, Board of Studies in Pharmacy is of immense importance to us.

We hope that your association with the University shall go a long way in maintaining high academic standards which this University envisions to do.

With regards,

Endst. No. 4495

Registrar
Dated: 27/10/15

A copy of the above is forwarded to the following for information & necessary action:-

1. Vice Chancellor, MRSSTU, Bathinda.
- ✓ 2. Dean, Academic affairs, MRSSTU, Bathinda.


Registrar

MAHARAJA RANJIT SINGH STATE TECHNICAL UNIVERSITY

Ph. No 0164-2280197, Fax 0164-2280164, Email: reg@mrsstu.ac.in

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**Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.**

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref. No : Notification/ 31

Dated : 07-10-15

NOTIFICATION

Board of Studies

Physics

(Tenure 01.10.15 to 30.09.17)

Course:

1. M.Sc. (Physics)

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.19, the following **Board of Studies in Physics** is hereby constituted for a period of two years (01.10.15 to 30.09.17).

Sr. No.	Nomenclature	Name & Address	Designation
(i)	Head of the Department concerned	1. Dr. Sandeep Kansal, Associate Professor & Head, GZS Campus CET, Bathinda (Ph. 8872500263) skansal2k1@yahoo.com	Chairman
(ii)	One Faculty member (of each specialization)	1. Dr. J. S. Hundal, Professor, GZS Campus CET, Bathinda (Material Science) (Ph. 8872500251) principalgzscet@yahoo.co.in 2. Dr. A. K. Tyagi, Professor, SBSSTC, Ferozepur (Ph. 01632-242138) akt@aol.com, anandktyagi@gmail.com 3. Dr. Meenu Sachan, Professor, Jasdev Singh Sandhu Institute of Engineering & Technology, Kauli, Patiala	Member(s)
(iii)	One Expert (in the subject from outside the Univ.)	1. Dr. Manoj Sharma, Professor, Thapar University, Patiala. msharma@thapar.edu	Member
(iv)	Two Experts (nominated by the Vice Chancellor)	1. Dr. Arvind Dhillon, IISER, Mohali (Ph. 9888564456) arvind@iiser.ac.in 2. Dr. Ravi Chand Singh, Associate Professor, GNDU Amritsar. rc.phy@gndu.ac.in	Members
(v)	Two Faculty members (from	1. Dr. Mohinder Pal, Professor, RIMT- Institute of Engineering & Technology	Members

Maharaja Ranjit Singh State Technical University, Bathinda
Ph. 0164-2280197, Fax 0164-2280164, Email: reg@mrsstu.ac.in

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	affiliated/constituent Colleges)	2. Dr. Ajay Kumar, Associate Professor, SBSSTC, Ferozepur	
(vi)	One representative (from industry/ corporate sector)	1. Dr. Dinkar Kanjilal, dk@juac.res.in	Member
(vii)	One post graduate meritorious alumnus	1. Ms Priyanka Goyal, (Ph. 9023359175).	Member

The main functions of BOS are as follows:

- Prepare syllabi for various courses keeping in view the objectives of the institution, interest of stakeholders and national requirements for consideration and approval of the Academic Council.
- Suggest methodologies for innovative teaching and evaluation techniques.
- Suggest panel of experts to the Academic Council for appointment as examiners.
- Coordinate research, teaching, extension and other academic activities in the department/ institution.
- The Board of studies will also suggest a panel of faculty members for setting the question papers and for appointment as External examiners for practical courses.
- Any other assignment given by the Vice-Chancellor from time to time.

Quorum:

Quorum of the Board of Studies is a minimum of half of the members of the board of Studies including the chairman, Board of Studies.

Endst. No. 3133

Dated: 09/10/15

S/
Registrar

A copy of the above is forwarded to the following for information & record please.

- All concerned,
- PS to Vice-Chancellor,
- Dean Academic Affairs,
- Director College Development Council

Abhishek
Deputy Registrar (Admn.)

Maharaja Ranjit Singh State Technical University, Bathinda
Ph. 0164-2280197, Fax 0164-2280164, Email: reg@mrsstu.ac.in

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**Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.**

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref. No : Notification/ 33

Dated : 07-10-15

NOTIFICATION

Board of Studies

Chemistry

(Tenure 01.10.15 to 30.09.17)

Course:

1. M.Sc. (Chemistry)

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.19, the following **Board of Studies in Chemistry** is hereby constituted for a period of two years (01.10.15 to 30.09.17).

Sr. No.	Nomenclature	Name & Address	Designation
(i)	Head of the Department concerned	1. Dr. Gursharan Singh, Professor & Head, GZS Campus CET, Bathinda. (Ph. 8872500260) gursharans82@gmail.com	Chairman
(ii)	One Faculty member (of each specialization)	1. Dr. Seema Sharma, Associate Professor, GZS Campus CET, Bathinda (Inorganic Chemistry) (Ph. 9417114169, 8872500279) harprit6920@gmail.com 2. Dr. Lalit Sharma, Associate Professor, Chem. Dept. of Applied Sciences, SBSSTC Ferozpur (Ph. 9872069500) lalitalit64@rediffmail.com 3. Dr. Palwinder Singh, Deptt. of Chemistry, GNDU, Amritsar (Ph. 9876062406) palwinder_singh_2000@yahoo.com	Member(s)
(iii)	One Expert (in the subject from outside the Univ.)	1. Dr. Sushil Mittal, Professor, Thapar University, Patiala (Ph. 9815653261) smittal2001@yahoo.com	Member
(iv)	Two Experts (nominated by the Vice Chancellor)	1. Dr. S.K. Mehta, Deptt. of Chemistry, Panjab University, Chandigarh (Ph. 9417786061) skmehta@pu.ac.in 2. Dr. Geeta Hundal, Deptt. of Chemistry, GNDU, Amritsar (Ph. 9501114469) geetahundal@yahoo.com	Members
(v)	Two Faculty members (from	1. Dr. Jawahar Lal Kapoor, Professor, Applied Chemistry, RIMT Institute of	Members

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	affiliated/constituent Colleges)	Engineering & Technology, Mandi Gobindgarh 2. Ms. Vandana, Assistant Professor, MIMIT Malout (Ph. 9417487965) vandnaraj@gmail.com	
(vi)	One representative (from industry/ corporate sector)	1. Dr. M.K. Jha, Professor, Department of Chemical Engg., NIT Jalandhar (Ph. 9417290668) jhamk@nitj.ac.in	Member
(vii)	One post graduate meritorious alumnus	1. Dr. Sangeeta Sharma, Associate Professor, SBSSTC Ferozepur (Ph. 9888569566) ssharma70in@yahoo.co.in	Member

The main functions of BOS are as follows:

- Prepare syllabi for various courses keeping in view the objectives of the institution, interest of stakeholders and national requirements for consideration and approval of the Academic Council.
- Suggest methodologies for innovative teaching and evaluation techniques.
- Suggest panel of experts to the Academic Council for appointment as examiners.
- Coordinate research, teaching, extension and other academic activities in the department/ institution.
- The Board of studies will also suggest a panel of faculty members for setting the question papers and for appointment as External examiners for practical courses.
- Any other assignment given by the Vice-Chancellor from time to time.

Quorum:

Quorum of the Board of Studies is a minimum of half of the members of the board of Studies including the chairman, Board of Studies.

Endst. No. 3147

Dated: 09/10/15

Sdf
Registrar

A copy of the above is forwarded to the following for information & record please.

- All concerned,
- PS to Vice-Chancellor,
- Dean Academic Affairs,
- Director College Development Council

Abhi
Deputy Registrar (Admn.)

Maharaja Ranjit Singh State Technical University, Bathinda
Ph. 0164-2280197, Fax 0164-2280164, Email: reg@mrsstu.ac.in

49/15

**Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.**

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref. No : Notification/ 33

Dated : 07-10-15

NOTIFICATION

**Board of Studies
Mathematics
(Tenure 01.10.15 to 30.09.17)**

Courses:

1. M.Sc. (Mathematics)
2. M.Sc. (Applied Mathematics)

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.19, the following **Board of Studies in Mathematics** is hereby constituted for a period of two years (01.10.15 to 30.09.17).

Sr. No.	Nomenclature	Name & Address	Designation
(i)	Head of the Department concerned	1. Dr. Karanvir Singh, Head, GZS Campus CET, Bathinda (Ph. 8872211150) karanvirs786@gmail.com	Chairman
(ii)	One Faculty member (of each specialization)	1. Dr. Jaskaran Singh Bhullar, Principal & Prof. MIMIT Malout (Ph. 9356737037) bhullarjaskarn@rediffmail.com 2. Mr. Kul Bhushan Agnihotri, Associate Professor, SBSSTC, Ferozepur (Ph.) 3. Mr. Mukesh Grover, Assistant Professor, GZS Campus CET, Bathinda (Ph. 9814922258) mukeshgrover.bti@gmail.com	Member(s)
(iii)	One Expert (in the subject from outside the Univ.)	1. Prof. Sukhjeet Singh Dhaliwal, Professor, SLIET, Longowal	Member
(iv)	Two Experts (nominated by the Vice Chancellor)	1. Prof. Jaspal Singh Aujla, Professor, NIT Jalandhar, aujlas@nitj.ac.in 2. Dr. Harbax Singh Bhatti, BBSBEC, Fatehgarh (Ph. 9914935678) Sahib bhattihs100@yahoo.com	Members
(v)	Two Faculty members (from affiliated/constituent Colleges)	1. Ms. Mamta Kansal, Assistant Professor, GZS Campus CET, Bathinda (Ph. 8872211700) mamtakansal2k8@yahoo.com	Members

**Maharaja Ranjit Singh State Technical University, Bathinda
Ph. 0164-2280197, Fax 0164-2280164, Email: reg@mrsstu.ac.in**

[Signature] 50/53

		2. Prof. Rajesh Kumar Narula, Assistant Professor, PIT Mansa	
(vi)	One representative (from industry/ corporate sector)	Not Applicable	Member
(vii)	One post graduate meritorious alumnus	1. Dr. Geeta Pratap, NIT Jalandhar. pratapg@nitj.ac.in	Member

The main functions of BOS are as follows:

- Prepare syllabi for various courses keeping in view the objectives of the institution, interest of stakeholders and national requirements for consideration and approval of the Academic Council.
- Suggest methodologies for innovative teaching and evaluation techniques.
- Suggest panel of experts to the Academic Council for appointment as examiners.
- Coordinate research, teaching, extension and other academic activities in the department/ institution.
- The Board of studies will also suggest a panel of faculty members for setting the question papers and for appointment as External examiners for practical courses.
- Any other assignment given by the Vice-Chancellor from time to time.

Quorum:

Quorum of the Board of Studies is a minimum of half of the members of the board of Studies including the chairman, Board of Studies.

Self
Registrar

Enclst. No. 3160

Dated: 09/10/15

A copy of the above id forwarded to the following for information & record please.

- All concerned,
- PS to Vice-Chancellor,
- ✓* Dean Academic Affairs,
- Director College Development Council

[Signature]
07/10/15
Deputy Registrar (Admn.)

Maharaja Ranjit Singh State Technical University, Bathinda
Ph. 0164-2280197, Fax 0164-2280164, Email: reg@mrssstu.ac.in

(59/53)

**Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.**

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref. No : Notification/ 43

Dated : 18-11-2015

NOTIFICATION

**Board of Studies
Environmental Science & Technology
(Tenure 01.10.15 to 30.09.17)**

Courses:

1. B.Tech. (Environmental Science & Engineering)
2. M.Tech. (Environmental Engineering & Management)
3. M.Sc. Environmental Science

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State - Technical University, Bathinda (MRSSTU) in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.19, the following **Environmental Science & Technology** is hereby constituted for a period of two years (01.10.15 to 30.09.17).

S. N.	Nomenclature	Name & Address	Designation
(i)	Head of the Department concerned	1. Er. Gurpreet Singh Bath, Head, GZS Campus CET, Dabwali Road, Bathinda. (Ph. 9417171710) gpsbath66@gmail.com	Chairman
(ii)	One Faculty member (of each specialization)	1. Dr. Manjeet Bansal, Associate Prof., GZS Campus CET, Dabwali Road, Bathinda. (Ph. 9815126102) push_kar5@yahoo.com 2. Dr. Seema Sharma, Associate Prof., Department of Chemistry, GZS Campus CET, Dabwali Road, Bathinda (Ph. 9417114169, 8872500279) harprit6920@gmail.com	Members
(iii)	One Expert (in the subject from outside the Univ.)	1. Dr. (Prof.) B.R. Gurjar, Department of Civil Engg., IIT Roorkee. (Ph. 09927141416) brgurjar@gmail.com	Member
(iv)	Three Experts (nominated by the Vice Chancellor from a panel of six recommended by the Head of Department)	1. Dr. (Prof.) Sanjay Sharma, Department of Civil Engg., NITTTTR Chd. (Ph. 09872005961) <i>Sector-16</i> sanjaysharmachd@yahoo.com 2. Dr. (Prof.) Anubha Kaushik, University School of Environmental management, Guru Gobind Singh Indraprastha University, Sector 16-C, Dwarka, New Delhi-110078 (Ph. 09654947305) aks.es.10@gmail.com 3. Dr. Manpreet Singh Bhatti, Department of botanical & Environmental Sciences, GNDU, Amritsar (Ph. 09417107598) mbhatti73@gmail.com	Members

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(v)	Two Faculty members (from affiliated/ constituent Colleges approved by the Vice-Chancellor)	1. Prof. (Dr.) Gursharan Singh, Professor, Department of Chemistry, GZS Campus College of Engg. & Tech., Bathinda (Ph. 09417628270) gursharans82@gmail.com 2. Dr. V.K. Garg, Associate Prof., Department of Environmental Science & Engineering, Guru Jambheshwar University of Sciences & Technology, Hisar (Ph. 09812058109) vinodkgarg@yahoo.com	Members
(vi)	One representative (from industry/ corporate sector)	1. Dr. Sunil Kumar, Sr. Scientist, Solid Waste Division, National, Environmental Engineering Research Institute, Nagpur (Ph. 08806029925) s_kumar@neeri.res.in, sunil_neeri@yahoo.co.in	Member
(vii)	One post graduate meritorious alumnus	1. Er. Ruby Sidhu, Asstt. Environmental Engineer, Punjab Pollution Control Board, Region Office, Rozanpore, Bathinda (Ph. 09779037004) ruby.sidhu11@gmail.com	Member

Region Office, Rozanpore, 401E,
Distt. Administrative Complex,
Bathinda.

The main functions of BOS are as follows:

- Prepare syllabi for various courses keeping in view the objectives of the institution, interest of stakeholders and national requirements for consideration and approval of the Academic Council.
- Suggest methodologies for innovative teaching and evaluation techniques.
- Suggest panel of experts to the Academic Council for appointment as examiners.
- Coordinate research, teaching, extension and other academic activities in the department/ institution.
- The Board of studies will also suggest a panel of faculty members for setting the question papers and for appointment as External examiners for practical courses.
- Any other assignment given by the Vice-Chancellor from time to time.

Quorum:

Quorum of the Board of Studies is a minimum of half of the members of the board of Studies including the chairman, Board of Studies.

S/-
Registrar

Endst. No. 4958

Dated: 19/11/15

A copy of the above id forwarded to the following for information & record please.

- All concerned,
- PS to Vice-Chancellor,
- Dean Academic Affairs,
- Director College Development Council

Ghanshyam Singh
Deputy Registrar (Admn.)

52/53

A-IV

APPENDIX-IV

**Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda**

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref. No : Notification/Reg/45

Dated : 15-12-2015

NOTIFICATION

Maharaja Ranjit Singh State Technical University, Bathinda Ph.D. Regulations-2015

Maharaja Ranjit Singh State Technical University, Bathinda has been established as an affiliating University vide Punjab Act No. 5 of 2015 notified through Punjab Government Gazette-Extraordinary (Regd. No. CHD/0092/2015-2017) notification No. 5-Leg./2015 dated 12th February 2015.

In pursuance of the Powers and Functions of the University vide section 4 (a), 4 (c) and 4 (d) of the above Act and as per the provisions contained in UGC (Minimum Standards and Procedures for Award of M.Phil./Ph.D. Degree) Regulations, 2009:

Consequent upon the Approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) in its 3rd meeting held on 06-11-2015 vide agenda item no. 3.9, the University has framed the following Regulations, hereby known as:

'Maharaja Ranjit Singh State Technical University, Bathinda Ph.D. Regulations-2015' for the Academic Programme leading to award of Ph.D. Degree, through its Departments and its approved Research Centres installed in its Constituent/Affiliated Colleges and approved collaborative research units.

Ph.D. Regulations-2015

Maharaja Ranjit Singh State Technical University, Bathinda-151001

Page 1 of 25

PREAMBLE

MRSSTU, Bathinda offers academic programme leading to the award of Ph.D. degree through its Departments and approved research centers installed in its affiliated colleges and approved collaborative units. The award of Ph.D. degree shall be in recognition of high academic achievements, independent and original research, characterized either by the discovery of facts, or by fresh approach towards the interpretation and application of existing theories and facts, or development of innovative products, techniques, ideas, and technologies for its applications to the solution of technical and scientific problems in Engineering & Technology, Architecture & Planning, Science, Humanities & Social Science and Management. It shall evince the candidate's capacity and capability to critically examine and logically conclude, and shall represent significant contribution to the existing knowledge. The academic programme leading to the Ph.D. degree is broad-based to the extent of involving a mandatory course work, research work presentations, publications and research thesis. Interdisciplinary research areas are encouraged through Co-supervision mechanisms. All candidates are expected to undertake the honor code to conduct all activities – academic and research in a manner that shall only enhance the prestige of the University. The degree of doctor of philosophy (Ph.D.) of the Maharaja Ranjit Singh State Technical University, Bathinda shall be conferred on a candidate who successfully completes all the requirements specified in these Ph.D. regulations, which are approved by the competent authority.

(A)

OUTLINE

The academic programme leading to the Ph.D. degree is broad-based that involves successful completion of a mandatory course work, research work presentations, and a research thesis. To streamline this program, Ph.D. regulations are framed with an aim to produce quality research work from the University. Two major committees are proposed and their role and purpose outlined.

- University Research Board (URB) shall be the highest research body of the University for monitoring, modifying, interpreting and arbitrating on any kind of dispute pertaining to these Ph.D. regulations. In addition, this body shall be competent to propose and issue amendments/addendum to these regulations as per the need and to comply with UGC guidelines from time to time.
- Department Doctoral Research Committee (DDRC) shall be constituted for every Department to take care of various research activities pertaining to its doctoral candidates. It shall be responsible for Ph.D. admissions as per these Regulations and to conduct interviews to ascertain candidates' research area, interest, and preparedness before admitting them to the programme. DDRC shall examine the candidate's research proposal and capabilities before the Ph.D. registration process and to recommend measures for strengthening candidate's potential for carrying out the research work. DDRC shall be responsible for regularly tracking and providing feedback on the candidate's research progress to facilitate quality research work. In addition, before thesis submission, it shall critically examine the work done through open seminar presentation with the aim to maintain high standard of research, its innovativeness, originality and contributions. In addition, it shall facilitate impartial evaluation of the thesis submitted.

Ph.D. REGULATIONS-2015

1.0 ELIGIBILITY

- i) The Admission to Ph.D. academic-research program shall be made in the various disciplines of the Faculties of this University, through an open advertisement at any time during the academic year. The candidates with minimum 55% marks (50% marks for SC/ST) in Master's Degree (in Engineering/Technology/ Science/Architecture/ Management/Computer application /Pharmacy (or Form-D) /Humanities and in those other areas, in which University decides to undertake the curriculum) of MRSSTU, Bathinda or an equivalent degree of recognized Indian or Foreign University (recognized by UGC/AIU) in the subject concerned/allied subject/cognate subject shall be eligible.
- ii) Candidates already having Ph.D. in a particular faculty is eligible only for a different subject/stream in the same faculty or in a different faculty as per clause 1.0 (i) above.
- iii) Only Post Graduation in a subject is essential qualification to pursue Ph.D. degree and Undergraduate candidates (like B.Tech.) will not be allowed to register for Ph.D. degree.

2.0 ADMISSION

2.1 Ph.D. ENTRANCE TEST (PET):

Subjected to the availability of slots/seats in a particular Faculty and Discipline, aspirant students shall be required to appear in a written Ph.D. entrance test (PET) to be conducted by the University. PET shall be a test of 100 marks to examine the student's depth of knowledge in concerned discipline, research related aptitude, analytical capability and language skills. Candidates securing at least 40% marks or above shall be eligible for the interview. The test score shall remain valid for 01 year only.

Merit list for admission shall be prepared out of 200 marks (weightage of PET:100: UG score: 40, PG score: 40, regular Teaching/Research Experience:10 @2 per year, SCI Journal publications: 10 (@5 per publication as author/co-author).

Merely qualifying the PET will not entitle a student for admission to Ph.D..

2.2 TEST EXEMPTION:

- i) Candidates who have qualified UGC(NET)/UGC-CSIR(JRF) exam/GATE/GPAT/INSPIRE/Fellowship awardees (AICTE/UGC/ MHRD)

Ch

Ph.D. Regulations-2015

Maharaja Ranjit Singh State Technical University, Bathinda-151001

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and those sponsored by Government (State/Union/ UT)/Public Enterprises/ DRDO/CSIR recognised research labs shall be exempted from PET.

- ii) Similarly, the M.Phil. degree holders from this University (with minimum 60% (55% in case of SC/ST/OBC students) or equivalent in grade or any other UGC approved/recognized University are exempted from the written test for the Ph.D. program.
- iii) Merit list for admission of such candidates exempted from PET as per clause 2.2 (i) and (ii) above shall be prepared out of 100 marks (Weightage: UG score: 40; PG score: 40; Fellowship awardee: 10; SCI Journal publications: 10 @5 per publication as author/co-author).
- iv) Candidates as per clause 2.2 (i) above shall be given preference over other categories.

However, all test exempted candidates need to appear for the subsequent interview.

2.3 INTERVIEW:

Successful shortlisted candidates (as per the Ph.D. Slots available) shall have to appear for an interview to be conducted by the Department Doctoral Research Committee (hereafter called DDRC) of the concerned Discipline to discuss their research interest/area and formally recommend their admission and supervisor, as applicable.

University can increase or decrease the number of seats depending upon the research facilities available.

2.4 SPONSORED/FELLOWSHIP AWARDEES:

The UGC/CSIR/INSPIRE/AICTE fellowship awardees or those sponsored by Government (State/Union/UT)/Public Enterprises/ CSIR/DRDO research labs or candidates who are awarded fellowships directly by their or any funding agencies for the purpose of pursuing Ph.D., can be registered any time during the session. NET/GATE/GPAT qualified project fellows appointed against financed projects of at least two years duration can also be registered for Ph.D. at any time during the session.

2.5 RESERVATION

National/State reservation policy shall be paid due attention in the process of Ph.D. admission. Candidates who have qualified UGC/CSIR/JRF/ INSPIRE/Fellowship

awardees/ and those sponsored by Government (State/Union/UT)/Public Enterprises/ recognised research labs will be admitted irrespective of reservation category.

The guidelines of the UGC and directions of the MHRD as applicable from time to time in regard to reservation for SC/ST/OBC/PWD in Ph.D. admissions shall be applicable automatically.

3.0 FELLOWSHIP/ SCHOLARSHIP

Ph.D. research scholars will be provided fellowship/scholarship as per the guidelines of the funding agencies from time to time.

4.0 SUPERVISOR:

4.1 ELIGIBILITY:

- i) All Regular Professors associated with the University/its affiliated PG colleges holding Ph.D. provided they are eligible to be appointed as Supervisor and are actively involved in research, and has at least two years to superannuation.
- ii) Regular Associate Professors or equivalent and Regular Assistant Professors or equivalent associated with the University/its affiliated PG colleges, who hold Ph.D. degree can supervise Ph.D. students. However, an Assistant Professor level faculty with Ph.D. must have cleared minimum 2 years of probation period successfully before supervising a Ph.D. candidate.
- iii) The Supervisor must also figure in the list approved by the University for the purpose.
- iv) Supervisor shall not be a relative such as wife/ husband, father/ mother, son/daughter, sister/ brother, wife's/husband's brother and sister, brother's/sister's son and daughter, first cousins, grand-son, grand-daughter, or such person as might be deemed a close relation of the candidate by the Vice-chancellor.

4.2 CO-SUPERVISOR:

- i) In addition to the supervisor, a candidate may be allocated a co-supervisor, in case research work is interdisciplinary in nature with full justification by the supervisor. Co-supervisor may be from the University or from the Institutions having MoU with the University, or from the Institutes of National importance (like IIT/IIT/IISER/IISc/NIT). In case of co-supervisor from outside the University, (s) he must fulfil the minimum norms of a research Supervisor.
- ii) Co-supervisor shall not be a relative such as wife/ husband, father/ mother, son/daughter, sister/ brother, wife's/husband's brother and sister,

brother's/sister's son and daughter, first cousins, grand-son, grand-daughter, or such person as might be deemed a close relation of the candidate by the Vice-chancellor.

4.3 CHANGE OF SUPERVISOR/CO-SUPERVISOR:

Normally change of supervisor/co-supervisor shall not be permitted, except under the circumstances mentioned below-

- i) In case the supervisor has left his affiliation with the university or by the mutual consent of the supervisor and the candidate. The earlier date of the Registration shall stand. DDRC shall have to recommend the same with justification.
- ii) In case of extreme hardship, where it becomes almost impossible for a candidate to work with the existing Supervisor and the VC has satisfied himself/herself. This clause is to be used sparingly under abnormal circumstances only.
- iii) In case a supervisor/co-supervisor retires or expires or leaves the affiliation of the University, during the course of the work, then as per the case need DDRC can recommend appointment of a full supervisor/co-supervisor/ caretaker cum administrative supervisor (to look after the administrative needs of the candidate's research work) depending upon the amount of work completed including publications.

4.4 SUPERVISOR ALLOCATION:

The DDRC shall recommend supervisor in a formal manner, depending on the number of students per faculty member, the available specialization/area among the faculty supervisors, research interest of the student and choice and consent of supervisor as indicated by student. The allotment/allocation of supervisor shall not be left to the individual student or teacher.

4.5 NUMBER OF SEATS UNDER A SUPERVISOR:

There shall not be more than **Eight** Ph.D. scholars under sole supervision (including full-time/part-time/sponsored research projects of this or any other university) at a time under a Professor, **Six** under an Associate Professor and **Four** under an Assistant Professor. However, if some of the candidates are under co-supervision as well, the upper limit on candidates for a Professor, Associate Professor and Assistant Professor

shall be **Ten, Eight, and Six** respectively. The candidature shall normally remain in force till the successful defence of viva-voce examination of the Thesis.

5.0 ADMISSION CATEGORIES:

Candidates shall be admitted under the following categories to this programme:

5.1 FULL-TIME:

- i) A person with *scholarship/fellowship/study leave from an organization/or without fellowship* who is neither employed nor is pursuing any other course of studies (shall submit a declaration in this concern) and whose supervisor is working in the jurisdiction of this university.
- ii) Candidates registered for full time programme in the university or in the approved centres of research in the jurisdiction of the university shall be available during the working hours for curricular, co-curricular and related activities.
- iii) Part-time candidates in employment, who want to pursue full-time studies may be allowed to convert as full time candidates during their research work subject to approval provided they are sponsored by their employer and should avail leave for the research period and should get formally relieved from their duty to join the research programme.
- iv) The full-time programme shall be undertaken in the departments of this university or in the approved university research centres. Full time Ph.D. scholars shall be required to be present in the university/centre. Candidates shall be marking their attendance daily and their presence shall be duly recorded and maintained in the concerned department/centre except on the days when s(he) is away from campus on duty/sanctioned leave.
- v) The full-time candidate shall not involve in any kind of remunerative academic work/duty outside the university premises without written permission from the supervisor and HoD concerned.
- vi) Full-time to Part-Time (External) conversion shall not be allowed normally and will be considered only on merit by DDRC for onward recommendation, but not before 15 months after confirmed registration.

5.2 PART-TIME (INTERNAL):

shall be **Ten, Eight, and Six** respectively. The candidature shall normally remain in force till the successful defence of viva-voce examination of the Thesis.

5.0 ADMISSION CATEGORIES:

Candidates shall be admitted under the following categories to this programme:

5.1 FULL-TIME:

- i) A person with scholarship/fellowship/study leave from an organization/or without fellowship who is neither employed nor is pursuing any other course of studies (shall submit a declaration in this concern) and whose supervisor is working in the jurisdiction of this university.
- ii) Candidates registered for full time programme in the university or in the approved centres of research in the jurisdiction of the university shall be available during the working hours for curricular, co-curricular and related activities.
- iii) Part-time candidates in employment, who want to pursue full-time studies may be allowed to convert as full time candidates during their research work subject to approval provided they are sponsored by their employer and should avail leave for the research period and should get formally relieved from their duty to join the research programme.
- iv) The full-time programme shall be undertaken in the departments of this university or in the approved university research centres. Full time Ph.D. scholars shall be required to be present in the university/centre. Candidates shall be marking their attendance daily and their presence shall be duly recorded and maintained in the concerned department/centre except on the days when s(he) is away from campus on duty/sanctioned leave.
- v) The full-time candidate shall not involve in any kind of remunerative academic work/duty outside the university premises without written permission from the supervisor and HoD concerned.
- vi) Full-time to Part-Time (External) conversion shall not be allowed normally and will be considered only on merit by DDRC for onward recommendation, but not before 15 months after confirmed registration.

5.2 PART-TIME (INTERNAL):

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- i) Full time teachers of this university, shall be called 'Part time (Internal)' candidates under the guidance of supervisor in the university.
- ii) Candidates working in this University in projects undertaken from State/Central/Quasi Government and totally funded through the projects shall also be called 'Part time (Internal)' candidates.
- iii) The place of research for teachers of this University shall be the concerned Departments of this University.

5.3 PART-TIME (EXTERNAL):

- i) Candidates working in Colleges/R&D Departments/Research laboratories in Units of Government/Quasi-Government/Industrial units, and sponsored by the respective employer/Organization, shall be called 'Part time (External)' candidates.
- ii) The place of research for the external candidates shall be the respective institution or unit or organization as the case may be and institutions where the Supervisor is working and also the Department concerned in the University.
- iii) All part-time registered candidates shall spend minimum forty-five days (minimum 15-days per visit) per year for consultations and research in the department and to be certified by the concerned Supervisor.
- iv) **Full-Time candidates shall be given preference over Part-Time candidates by the University.**

Both Full-time/Part-time candidates need to undertake mandatory pre-Ph.D. registration course work as mentioned in clause 6.0 in a REGULAR manner.

6.0 COURSE WORK

The DDRC shall normally meet within three weeks from the date of pre-registration/enrolment of the candidate to prescribe/recommend course work for the research scholar as proposed by Supervisor(s) and keeping in view candidate's area of research.

- i) Each Ph.D. student will have to undertake one mandatory course (**4 credits**) on Research Methodology (RM), which will include quantitative methods, computer applications and reviewing of latest published research work in the relevant field.
- ii) In addition, a Ph.D. candidate (having M.Phil./M.Tech./ M.Pharm. /M.Arch./MBA who has done course-work in PG) shall be required to undertake mandatory Regular course work in the relevant/cognate research area for minimum **six credits** (for example: 4-credit theory subject + 2-credit Practical work/ or two theory

subjects of 3-credit each) and a mandatory Seminar of **one credit** on her/his area of research as a part of pre-Ph.D. course-work. The Course work may or may not be from the parent department and shall be treated as pre-Ph.D. course work.

- iii) All other candidates, who have not done the relevant course work in their Post Graduation, shall be required to undertake minimum **ten credits** course work in one semester (for example 2 courses of 4-credit each / or 3 courses of 3-credits along with a 2-credit Practical work) and a mandatory Seminar of **one-credit** on her/his area of research in addition to **four credit** RM as a part of mandatory pre-Ph.D. course-work.
- iv) The candidate will have to clear courses within the first two semesters as per the programme of the Department.
- v) Direct fellowship awardees or candidates registered for Ph.D. during the middle of the semester will take up course work in the following semester.
- vi) The syllabus for Pre-Ph.D. course work, not covered in the ongoing PG curriculum, will be drawn by the Board of Studies or DDRC subject to the approval by BoS and highest academic body of the University.
- vii) An attendance less than the mandatory 75% (including 10% attendance benefit on medical grounds) in the course work shall attract cut in the scholarship/ fellowship.

7.0 COURSE COMPLETION CRITERION

- i) The candidate is required to score minimum 60% average marks in the prescribed course work (or equivalent CGPA).
- ii) The prescribed course work shall be completed within twelve months from the date of enrolment/pre-registration. In case a candidate fails, he/she may request another chance recommended by supervisor to complete the course work within six months with extra fee as applicable. After this any further chance may be granted by VC with extra fees as applicable.

8.0 RESEARCH PROPOSAL & Ph.D. REGISTRATION

On the successful completion of the prescribed course work, within 6 months, the candidate shall submit her/his research proposal/synopsis, giving problem statement, an outline of the research proposal, topic of research/thesis, review of literature, aims and objectives, methodology, plan of work, and bibliography. The submitted synopsis shall be subjected to scrutiny by DDRC within two-months. Candidate shall be required to give an open presentation of her/his research proposal before the DDRC, in which faculty of any other department may also be present.

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In case,

- i) The presentation/research proposal is accepted without any modifications by DDRC, the candidate shall apply for Ph.D. registration on a *prescribed performa*, and shall be assumed to be registered from the date of his submission of registration fee and undertaking the University "Honour code".
- ii) The presentation/research proposal is not approved/accepted, the candidate shall be resubmitting research synopsis afresh within six-months.
- iii) The committee desires some modifications in the submitted research proposal/Title for inclusion in the final thesis work, these shall be explicitly mentioned in the DDRC report with due intimation to candidate. Candidate shall submit this modified approved research proposal/synopsis within ten days and shall apply for Ph.D. registration on a *prescribed performa* and submit registration fees. A candidate shall be assumed to be registered for Ph.D. from the date of her/his submission of Ph.D. registration fee and undertaking the University "Honor Code".

8.1 CANCELLATION OF ENROLLMENT/REGISTRATION:

The enrolment/registration of the student will be cancelled, if ,

- i) The candidate does not enroll for course work in the ongoing/immediately following semester (if admitted mid-semester) on her/his admission to Ph.D. without specifying any reason.
- ii) The candidate fails to obtain the required CGPA/marks in course work as per rules.
- iii) The progress of the candidate is found Unsatisfactory by the Supervisor and the DDRC as per clause 9.0 (iii)
- iv) The candidate does not pay the fee/dues in time and even in extended period with late fee, as applicable.
- v) The candidate commits to plagiarism or unethical practices in research.
- vi) The candidate indulges in activities of indiscipline, and remains absent from the Department without permission of the competent authority.

9.0 REVIEW OF PROGRESS

- i) The student registered for Ph.D. shall submit progress-report on the work done after every twelve months on *prescribed Performa* duly certified by Supervisor(s) and shall deliver open seminars after every twelve-months on the dates fixed by the concerned department before DDRC, to apprise them about the progress of her/his research and to consider the feedback received, if any



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- ii) The Ph.D. student will maintain a complete record of research data collected or generated during the course of work and draft of the thesis.
- iii) In cases of non-receipt of two consecutive progress reports or two consecutive unsatisfactory reports or unethical practices in research committed by the student or misconduct by the student, the doctoral committee with Dean R&D in the chair, can recommend any action including cancellation of registration.

10.0 Ph.D. DURATION

10.1 MINIMUM DURATION:

No candidate shall be permitted to submit the thesis for the Ph.D. degree, unless (s)he has pursued research in the University/approved research centre for not less than twenty-four months (**Two years**) from the date of Ph.D. registration for full-time and thirty months (**Two and a Half years**) for part-time candidates.

10.2 MAXIMUM DURATION:

The maximum period for the submission of Ph.D. thesis shall be sixty months (**Five years**) from the date of Ph.D. registration.

10.3 EXTENSION OF DURATION:

- i) Provided in exceptional circumstances, the DDRRC may recommend to the Dean R&D extension of the registration of the candidate for a maximum period of twelve months with applicable extension fees. If the candidate fails to submit thesis within the extended period her/his registration shall lapse automatically.
- ii) Any further extension shall be subjected to the approval of the Vice-Chancellor.

11.0 ATTENDANCE AND LEAVE

- i) Full time Ph.D. scholars shall be required to be present in the University. Their presence shall be duly recorded and maintained in the Department/Centre concerned, except on the days when s(he) is away from campus on duty/sanctioned leave.
- ii) A Ph.D. scholar cannot avail more than one month leave in a year. (15 on incidental accounts +15 on medical grounds). Leave not availed shall not be accumulated at the lapse of the year (31st Dec) except on medical grounds.

12.0 PRE-THESIS SYNOPSIS

When the Supervisor(s) is of the opinion that thesis is in the final stage of completion, including mandatory publication requirement as in clause 13.0, the candidate shall apply on

prescribed performa for the pre-thesis synopsis seminar on his research findings, at least three-months before the intended period of submission of thesis to the office of HoD through Supervisor, along with 10-copies of the final synopsis of the research work. The candidate shall be allowed to submit her/his thesis for the Ph.D. degree only when the DDRC is satisfied about the work.

12.1 SEMINAR PRESENTATION:

- i) The pre-thesis synopsis seminar shall be conducted within a month by the DDRC before an open audience. The attendance of all present shall be recorded. The seminar presentation will examine the candidate's research contribution and accomplishment of proposed research objectives. In case, DDRC makes certain comments/suggestions for improvement, the candidate needs to incorporate these suggestions in the thesis under the advice of the supervisor(s). The publications required as per clause 13.0 from the candidate shall be put before the DDRC for scrutiny. Topic of the Thesis, if need be, can be fine tuned and recorded formally within the broader perspective of the initially approved title and /or research proposal at this stage.
- ii) In case of successful pre-thesis seminar, Supervisor(s) shall also submit separately a panel of six reputed examiners, as per clause 14.0, from India (preferably from widely covered geographical areas/ different states) and six from outside India from reputed Indian Institutes and Foreign Universities respectively. Examiners' particulars in regards to research interests and experience shall also be put before the DDRC for consideration and recommendation keeping in view the thorough, impartial and unbiased evaluation of the work.
- iii) A formal report on a *prescribed performa* in this regard, along-with extended abstract of Thesis (soft copy (pdf format)+ 04 hard copies), proof of research publications/acceptance, and recommended panel of examiners shall be submitted to the office of Dean R&D in confidential. The gist of the extended abstract should match with the approved research proposal.

12.2 UNSATISFACTORY SEMINAR:

In case, DDRC is not satisfied with the contributions made towards approved research objectives, the candidate will have to appear again, with applicable re-submission fee, if any, for the pre-thesis synopsis seminar within a period of

twelve months at the most though keeping in view the maximum Ph.D. duration.

13.0 MANDATORY PUBLICATION

Before the submission of thesis, candidate shall have to publish at least **two** research papers in referred Journals of repute and shall produce evidence for the same or the reprint of the papers before the DDRC for adjudication at the time of pre-Thesis Seminar presentation. Out of these two, one research paper must be in peer reviewed International Journal included in SCI. However, for Ph.D. Thesis relevant to Social Sciences and Humanities SSCI/AHCI (Thomson Reuter) journals shall also be considered. The affiliation of the University is must on these publications.

14.0 EXAMINER'S ELIGIBILITY

Examiners need to be from the broad area of candidate's research work, and preferably whose work is referred by the candidate in her/his thesis. Research person working in the laboratory(s)/ Institution(s) where the research candidate or supervisor(s) from outside the institution, if any, is employed, cannot, however, appear in the panel of examiners. Any person related to the candidate or supervisor(s) should not appear in the panel of examiners (to be declared by the Supervisor(s) while submitting the panel before DDRC).

14.1 BOARD OF EXAMINERS:

On receipt of the recommendation of DDRC for successful pre-Thesis seminar along with extended abstract and panel of examiners, Dean R&D will get approval from VC to appoint three external examiners (two from within India and the third from abroad) out of which one must be from the panel submitted. VC shall be free to select the other examiners either from the list of the subject experts of the UGC or on her/his own initiative guided by the references or from the submitted panel. The Ph.D. thesis submitted by the candidate shall be examined by the three external examiners while the Supervisor(s) shall be the internal examiner(s). The consent of appointed external examiners shall be sought electronically by the office of Dean R&D on the basis of extended abstract submitted by the candidate.

15.0 SUBMISSION OF SOFT-BOUND THESIS FOR EVALUATION

Following the successful pre-thesis Seminar presentation as per clause 12.0, within three-months, the research candidate shall submit four-copies of the thesis (with both sides of a page printed) in a spiral bound form or with a soft cover (additional copies depending upon number of Co-supervisors), as per the University guidelines in regards to thesis format, and also a soft copy (pdf file) on a CD. One copy each is for office record, for foreign examiner, for Indian examiners and for Supervisor(s). *Abhi*

15.1 THESIS REQUIREMENTS:

- i) The Ph.D. thesis submitted by the candidate shall satisfy the requirement that it is a research work characterized by either the discovery of new facts or by fresh interpretation of facts or theories, or development of innovative technique, product, idea or technologies. It should reveal the candidate's capacity for critical examination, original thinking and critical judgment. Its literary presentation should also be satisfactory.
- ii) The thesis shall include a certificate from the Supervisor(s) and a declaration from the candidate that it incorporates the candidate's bonafide research work and it has not been submitted for award of any other degree to this or to any other University or any institute of learning. In addition, the work of other researchers wherever referred is properly cited and fully acknowledged.
- iii) Before submission of the Thesis, it shall have to pass through the anti-plagiarism software test available with the University at that time.
- iii) The application for the submission of the thesis shall be forwarded by the HoD to the office of Dean R&D, only after the satisfactory anti-plagiarism test report recommended by Supervisor is enclosed with it.

16.0 THESIS EVALUATION

Examiners in the approved board of examiners will examine the thesis individually with a view to judge the suitability of the thesis as a piece of research work worth awarding Ph.D. Each examiner will send detailed comments on the research work to the office of Dean R&D, along with a clear recommendation on the *prescribed Performa* stating one of the following:

- A. The thesis is SATISFACTORY and recommended for the award of Ph.D., or
- B. The thesis is RECOMMENDED for the award of Ph.D. Degree subject to SATISFACTORY ORAL DEFENCE if the candidate gives satisfactory answers to queries specifically mentioned in the report, or
- C. The thesis is recommended for the award of Ph.D. Degree subject to the candidate makes REVISIONS in the thesis as per suggestions made and these are SATISFACTORILY PRESENTED DURING ORAL DEFENCE, or
- D. The thesis needs RESUBMISSION in the REVISED FORM, as per suggestions made and the thesis be sent FOR RE-EVALUATION, or
- E. The thesis is REJECTED. *Q*

Reports received from all the examiners (Internal & External) shall be opened simultaneously by Dean R&D, and on the basis of the recommendations of the examiners will take one of the following actions:

16.1 DECISION ON EVALUATION REPORTS:

- i) In case, examiners are unanimous in recommending the award of the degree on the basis of the thesis without any modification (as per clause 16.0 (A) or (B) or (A) and (B)), their recommendation shall be accepted and the process for oral defence shall be initiated as per clause 17.0.
- ii) In case, reports received from the external examiners are contradictory, a Decision Proposing Committee (hereafter called DPC) comprising of Dean R&D, Supervisor(s), two senior Professor level faculties from allied areas (may or may not be from DDRC) shall be constituted by the VC to recommend the further course of action.
- iii) In case DPC observes any ambiguity in recommendations made by the examiner(s), Dean R&D will approach the examiner(s) for a clear recommendation. In case, clear recommendation is not forthcoming, the matter may be referred to VC by the DPC proposing further course of action for decision. The decision of VC shall be final and binding.
- iv) In the event of any examiner making recommendation for the revision of the thesis (clause 16.0 (C) or (D)), then on the recommendation of DPC, student shall be free to defend her/his point of view forwarded by Supervisor, through Dean R&D within one-month from the date the communication. However, if the examiner is not satisfied with the student's defence, the student shall be required to carry out necessary revisions as finally suggested by the examiner within one year (subjected to clause 10.0) from date of communication to the candidate.
 - In case, examiner suggesting revision also states that the revised thesis need not be sent again (clause 16.0 (C)), the revised thesis will not be sent to the examiner. However, the Supervisor(s) shall certify that the comments have been incorporated, before the viva-voce examination.
 - In case, examiner suggesting revision states that the revised thesis be sent again (clause 16.0 (D)), the re-submitted thesis shall be sent again, on an additional payment of prescribed thesis resubmission fee, and will be examined by the same examiner who has recommended re-submission unless examiner is unable to do so or declines to do so.

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- v) In the event of one/two of the examiners recommending award of the degree (clause 16.0 (A) or (B)) and the other examiner/s recommending rejection (clause 16.0(E)) of the thesis- then, on the recommendation of DPC, student shall be free to defend her/his point of view (forwarded by Supervisor) through Dean R&D within one-month from the date of communication. In case the deadlock continues to prevail, the DPC may propose further action to VC based upon its observations on the reports received. The recommendations of the VC shall be final. This procedure shall also be followed if the examiner who has suggested revision/modification rejects the revised thesis.
- (vi) In the case, all the external examiners reject the thesis, then on the recommendation of the DPC, the VC may permit submission of a revised thesis on an additional payment of the prescribed thesis resubmission fee, after a suitable time frame to be fixed by DPC (subjected to clause 10.0 of maximum Ph.D. duration). The observations and comments of the examiners, if any, may be copied and given to the candidate through supervisor on request. In no-case should a resubmission of the thesis without modification along the lines of criticism made by the earlier examiners will be allowed. The revised thesis shall be referred for assessment to the examiners selected from a new panel of experts recommended by the DDRC. In case, majority of experts reject revised thesis again the thesis will stand rejected.

16.2 DISPUTE REDRESSAL:

Any doubt arising out of following the procedure laid down in this clause and otherwise shall be referred to VC for a decision. The decision of VC shall be final and binding.

16.3 TIME PERIOD FOR RESUBMISSION:

The candidate, who is required to re-submit the thesis, must do so within one-year from the date of receipt of the examiner's comments by the University. Under no circumstances the total time period shall exceed the Ph.D. duration as per clause 10.0. Candidate shall have to pay the Thesis Re-submission fee as applicable.

17.0 ORAL THESIS DEFENCE

Once the reports of the examiners have been accepted as satisfactory, the case file of the candidate shall be put before the VC for deputing the external examiner for the Oral Defence Committee (ODC) that shall be comprising of Supervisor(s), one of the external examiners (normally from India) and the Head of Department. The candidate will have to defend the thesis before the ODC. The defense of the thesis shall be in the form of an open viva-voce

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conducted in the University on a working day. The attendance shall have to be recorded. Viva-voce exam will be widely notified and coordinated by the HOD at least three working days in advance.

- i) In case of clause 16.0 (C) of thesis evaluation, the Supervisor(s) shall certify that the comments have been incorporated in the thesis, before the viva-voce examination.
- ii) In case, the external examiner is unable to conduct the viva-voce, a set of questions would be obtained from her/him by Dean(R&D) and viva-voce will be conducted by an examiner (within or outside the University having knowledge in the area of Thesis) to be appointed by the VC on the recommendation of Dean R&D.

17.1 NON-SATISFACTORY DEFENCE:

If the ODC is not satisfied with the defence, the candidate has to appear again before the board within the next three months. Further, if the ODC suggest certain modifications/alterations to be done in final thesis submission, it shall be duly recorded in the report and supervisor shall certify their incorporation before final thesis submission.

17.2 THESIS DEFENSE REPORT:

The report about the performance of the student in the viva-voce shall be recorded in the Performa by the Supervisor(s) and the external examiner only. Further, if the thesis is suitable for publication by the University in the form of a book, it will be explicitly mentioned in the report with suggested modifications, if any.

17.3 EXAMINERS' REMUNERATION:

Remuneration to examiners for Thesis evaluation and re-evaluation and viva-voce examination shall be paid as approved by BOG from time to time.

18.0 FINAL HARD-BOUND THESIS SUBMISSION

After the successful completion of oral defense, the candidate is required to make all the changes suggested by the examiners of ODC, if any.

- i) The final submission of thesis shall be in hard bound form with colour and format as specified by the University, with both sides of a page printed, incorporating all the changes in the thesis. The number of copies submitted shall be two more than the number of supervisor(s). One copy each is for University Central Library, Departmental Library and for Supervisor(s).
- ii) The candidate's declaration page as prescribed by University in the final thesis will have the signature of the candidate, Supervisor(s), Indian external examiner and HoD.



The Supervisor will take the signature of all the members of Oral Defence Committee on required number of sheets at the time of viva-voce examination to be placed in the final thesis.

- iii) Before signing the thesis in the hard bound form, the Supervisor(s) will certify that the candidate has made all the changes as suggested by the examiner(s).
- (iv) The candidate shall submit one copy of final thesis meant for Central Library, synopsis of the thesis, 'No Dues' certificate and a soft copy of final thesis (pdf file) on a CD through Supervisor(s) to HoD, who shall forward the same along with the ODC report recommending award of the Ph.D. degree to the office of Dean R&D for approval by the VC/ competent authority and to grant provisional degree and certification in regards to- Degree being awarded is as per the *UGC (Minimum Standards and Procedure for Award of M.Phil/Ph.D Degree) Regulation, 2009*, - by the concerned academic section.

19.0 AWARD OF Ph.D. DEGREE

The Degree of Ph.D. shall be awarded by the Highest Academic Body of the MRSSTU, provided that:

- i) The Oral Defence Committee so recommends;
- ii) The candidate produces a 'No dues Certificate' in the prescribed form.
- ii) The candidate has submitted one soft and two hard cover copies of the thesis; one for the Library of the Department/Centre and the other for the Central Library. The thesis should incorporate all necessary/ corrections/ modifications listed by the Oral Defence Committee (ODC).

20.0 DEPOSITORY WITH UGC

Following the successful completion of the evaluation process and announcements of the award of Ph.D., the University shall submit a soft copy of the Ph.D. thesis to the UGC within a period of thirty days, for hosting the same in INFLIBNET, accessible to all Institutions/ Universities.

This shall be mandatory for all research students.

21.0 INTERPRETATION

Any doubt or dispute about the interpretation of these Regulations shall be referred to the University Research Board (URB) with VC as Chairperson, whose decisions shall be final.

Note: This incorporates all the provisions contained in UGC (Minimum Standards and Procedure for Award of M.Phil/Ph.D Degree) Regulation, 2009.

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g)	Two experts holding Ph.D. degree from the affiliated colleges of the university to be nominated by the Vice-Chancellor.	Member
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B) DEPARTMENT DOCTORAL RESEARCH COMMITTEE (DDRC)

Every department offering Ph.D. Programme shall have a DDRC to be approved by VC through Dean R&D to take care of all administrative and technical matters pertaining to Ph.D. program of candidates admitted in the Department for Research Programme leading to Ph.D. degree.

In the case of a discipline in which there is no teaching department of the University or there is no Professor level faculty, the DDRC shall be constituted by the Vice-Chancellor in consultation with the concerned Dean Faculty, Chairperson Board of Studies and Dean R&D, MRSSTU.

DDRC or its subcommittees, as applicable for a given purpose, shall be responsible-

- ii) For the evaluation of Ph.D. entrance test pertaining to concerned discipline, with the aim to shortlist candidates to appear for subsequent interview to fill up the available research slots in the respective Department.
2. For Ph.D. admissions in their respective Departments as per these Regulations and to conduct interviews to ascertain candidates' research area, interest, and preparedness before admitting them to the programme
3. For recommending Supervisor/ Co-supervisor and course-work in accordance with the approved procedure of Ph.D. admission of the University.
4. For critically scrutinizing the research proposal submitted by the candidate, after the successful completion of pre-Ph.D. course-work and open presentation made thereafter by the candidate, before recommending her/his name for confirmation of registration for Ph.D. thesis work. In addition, DDRC may also suggest list of suitable Journals for publication of the research work in the relevant area other than those specified in relevant SCI journals.
5. For scrutinizing the progress report submitted by the candidate and to monitor the candidate's research progress through open presentations after every 6-month and may recommend suggestive measures, if any, to improve the candidate's research work. A

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formal report of such meetings shall be submitted to the office of Dean R&D and a copy shall be retained by Supervisor(s) and concerned HoD.

6. For scrutinizing and critically analyzing the pre-thesis synopsis, other mandatory requirements as per approved Ph.D. regulations, and shall conduct an open seminar of the candidate before recommending the Thesis submission process.
7. For recommending the names of the examiners proposed by Supervisor (s), for the purpose of getting the thesis evaluated in an impartial, unbiased and thorough manner.
8. for any other administrative matter pertaining to candidate's Ph.D. program as specified in Ph.D. regulations
9. for any other Ph.D. related work as assigned to it by the competent authority

Composition of the DDRC in each Department/School shall be as follows –

Composition of Department Doctoral Research Committee (DDRC)		
1)	Dean of concerned faculty / Chairperson BoS of concerned Discipline having Ph.D.	Chairperson (Ex-officio)
2)	One Faculty member having Ph.D. from outside the Department/ school of University to be nominated by VC	Member
3)	One nominee of Dean R&D in the cognate area from University	Member
4)	All Faculty members having Ph.D. in the concerned Department/Center/ School from University (to be treated as 1 member together)	Member *
5)	Supervisor(s) (to be treated as 1 member together)	Member
6)	One outside expert * *(out of the three proposed by Supervisor/or from the approved panel of outside Ph.D. experts of concerned Department/School/ or recommended/ nominated by VC through Dean R&D)	Member

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7) Head of Department/centre/school in the University/centre/ or Ph.D. Coordinator of the Department, in case of Non-Ph.D., HoD	Convener
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- * In case of non-availability of experts in the relevant area of specialization in the approved panel of outside experts, the Supervisor may submit an additional list of experts of relevant area through Head of the Department/School.
 - In case of non-availability of members at level 2) or 3), expert out of the three proposed by Supervisor from the approved panel of outside experts of concerned Department/School to be nominated by VC through Dean R&D
- i) Out of the seven members of DDRC as listed above, **four** shall form the **quorum** including outside expert. Presence of outside expert is must at the time of initial research proposal presentation and Pre-Thesis synopsis presentation.
- ii) **Supervisor cannot be the Chairperson of the DDRC of her/his own candidate/s.**
- iii) **Chairperson of the DDRC shall not be below the rank of Professor.**
- iv) In the event of absence/non-availability of Chairperson, senior most faculty member may act as the Chairperson of DDRC, subject to such nomination by VC.
- v) Senior most Professor in the University/Department/Centre/School in the cognate area can be the Chairperson of the DDRC, subject to such nomination by VC.
- vi) Research Scholars are admitted to the academic Department/Centres/Schools of the University. Students can also be admitted to other R & D Centres/Schools/Institutes provided theses R & D Centres/Schools/Institutes/ Departments are approved by the University for carrying out doctoral level research work. However, their research program shall be monitored by the DDRC proposed by the Dean Faculty/Chairman BoS/Dean R&D with faculty from other Departments/Centres who are allied to the area of research of the Centre/school. The composition of the DDRC shall have to be approved by VC through the office of Dean R&D and reported to the Highest Academic Body.
- vii) DDRC meetings, at the time of initial research proposal, final pre-thesis synopsis presentation, and oral thesis defense shall normally be held at MRSSU University campus.

Ph.D. Course Work

The Ph.D. course work will follow credit based system, the details of which are given below: While undertaking the course work, the following terms are defined:

"Course" means a semester course

"Credit" means weightage assigned to a course in terms of contact hours

(1 Credit theory = 1 contact hour per week/ 1 Credit practical or seminar or field work = 2 contact hours per week.)

"Grade" means a letter grade assigned to a student on a 10 point scale.

"Semester Grade Point Average" (SGPA) means weighted average of grades in a semester = $(\sum G_i * C_i) / \sum C_i$, where G_i is the grade in the i^{th} course, and C_i are the credits in the i^{th} course.

"Cumulative Grade Point Average" (CGPA) means total weighted average of grades in all semesters = $(\sum G_i * C_i) / \sum C_i$

The grades shall be awarded as per the following table:

Credit Courses

Academic performance	Grade	Grade Points	% score in absolute marking system
Outstanding	A+	10	>80 to 100
Excellent	A	9	>75 to 80
Very Good	B+	8	>70 to 75
Good	B	7	>60 to 70
Average	C+	6	>50 to 60
Fair	C	5	>40 to 50
Marginal	D	4	>30 to 40
Deficient	E	2	>20 to 30
Very Poor	F	0	0 to 20

A Ph.D. student will be required to obtain at least "C+" grade in each course. A student getting "C" or lower grade in any course will have to opt another course in lieu of such a course with the approval of his/her supervisor, and will have to obtain at least "C+" grade in this course within one year of first taking up of that course, failing which his/her pre-registration to the Ph.D. programme will be cancelled.

A student will have to obtain a CGPA of 6.75 or above, in order to be eligible to confirm Ph.D. registration. The back conversion from SGPA/CGPA to Percent score will be multiplication of SGPA or CGPA by a factor of 8.9

Seminar:

Each student registered for Ph.D. will have to undertake at least one credit of seminar based on her research area after his/her enrolment/pre-registration. The Grade awarded for Seminar will be "S (Satisfactory)" or "U (Unsatisfactory)".

Thesis:

A student registered for Ph.D. will have to undertake thesis work spread over the entire period of registration of the Ph.D. The grade awarded for thesis work will be "S" or "U". A student will start working on the topic of his/her research right from the date of enrolment/pre-registration.

Fees:

The students registered for Ph.D. shall pay fees for course work as per the rules of the university.

Endst. No. 6095

Sd/-
Registrar
Dated: 15/12/15

A copy of the above is forwarded to the following for information & necessary action.

1. Dean, Academic affairs, MRSSTU, Bathinda.
2. Dean, Research & Development, MRSSTU, Bathinda for vide publicity in the constituent and affiliated colleges of MRSSTU.
3. Director, IT Enabled Services, MRSSTU, Bathinda for uploading on University website.

Shiv
15/12/15
Dy. Registrar (Admn.)

Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.
(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref No : Reg/Notification/50

Dated : 08-02-2016

NOTIFICATION**Sub: Constitution of University Research Board (URB) of MRSSTU, Bathinda.**

In pursuance of the powers and functions conferred to MRSSTU which has been established as an affiliating university vide Punjab Act No. 5 of 2015 and as per the provisions contained in UGC (Minimum Standard and Procedure for award of Ph.D. Degree) Regulations-2009, the University Research Board of MRSSTU is notified as under.

University Research Board (URB)-the highest research body of the University for Monitoring, Interpreting and Arbitrating on any kind of dispute pertaining to University Ph.D. regulations has been constituted. This body shall be competent to propose amendments/addendum to the Ph.D./Research Regulations as per the need and to comply with UGC guidelines as issued from time to time. The URB shall be the competent Authority to suggest amendments in research proposals and shall give final approval of Ph.D. registration. Accordingly, the composition of MRSST University Research Board as per Ph.D. Regulations-2015 norms shall be as under:

UNIVERSITY RESEARCH BOARD (URB)			
	Position	Designation	Currently in Chair
a)	Chairperson	Vice-Chancellor	Prof. Mohan Paul Singh Ishar
(b)	Member-Secretary	Dean, Research & Development	Prof. Savina Bansal
c)	Member	Dean, Faculty of Engg. & Technology	Prof. Paramjeet Singh
		Dean, Faculty of Pharmacy	Prof. Ashish Baldi
		Dean, Faculty of Commerce & Mgt.	Prof. Sanjeev Kumar Sharma
		Dean, Faculty of Sciences	Prof. Subodh Kumar
		Dean, Faculty of Hospitality & Tour Mgt.	Dr. Meenakshi Malhotra
		Dean, Faculty of Architecture & Planning	Prof. Karamjit Singh Chahal
		Dean, Faculty of Humanities & Social Sciences	Prof. B.S. Ghuman
d)	Member	Dean, Academic Affairs, MRSSTU	Prof. Gursharan Singh
e)	Member	All other Professors from various Departments of University	Dr. Gursharan Singh (Chem.)
			Dr. Jasbir S. Hundal (Phys.)

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			Dr. Savina Bansal (ECE)
			Dr. Jyoti Saxena (ECE)
			Dr. A.K.Goel (ECE)
			Dr. R.K.Bansal (ECE)
f)	Member	Two Associate Professors and Two Assistant Professors of the University by rotation strictly as per seniority, provided they hold a Ph.D.Degree	Associate Professors (i) Dr. Sanjiv Aggarwal, Assoc. Prof., Civil Engg., GZSCCET, Bathinda (ii) Dr. Balwinder S. Sidhu, Assoc. Prof., Mech. Engg., GZSCCET, Bathinda
			Assistant Professors (i) Dr. Veerpal Kaur, Asstt. Prof., Mgt. Studies, GZSCCET, Bathinda (ii) Dr. Suman Kathuria, Asstt.Prof., Mgt. Studies, GZSCCET, Bathinda
g)	Member	Two experts holding Ph.D. degree from the affiliated colleges of the University to be nominated by the Vice Chancellor	(i) Dr. Krishan Saluja SBSSTC, Ferozepur. (ii) Prof. H.S. Bhatti BBSBEC, Fatehgarh Sahib.

The term of University Research Board shall be two years from the date of notification.

This notification is issued after the approval of competent authority.

Sd/-
Registrar

Endst. No. 610-635

Dated: 09/02/16

A copy of the above is forwarded to the following for information & necessary action.

1. P.A.-to-Vice Chancellor.
2. All concerned.
3. Dean, Academic Affairs, MRSSTU, Bathinda.
4. Dean, Research & Development, MRSSTU, Bathinda.
5. Director, IT Enabled Services, MRSSTU, Bathinda.


Dy. Registrar (Admn.)

A-VI

Maharaja Ranjit Singh State Technical University, **APPENDIX-VI**
Dabwali Road Bathinda.
(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref No : Reg/Notification 49

Dated : 01-01-2016

NOTIFICATION

Ph.D. regulations-2015 of Maharaja Ranjit Singh State Technical University, Bathinda have already been notified. The Ph.D. Fee structure approved for MRSSTU Ph.D. program shall be as follows:

Proposed Ph.D. Fee Structure

1. Ph.D. Entrance Test (PET) Fee: Rs 2000/- (One time & only for those appearing in PET)
2. Ph.D. Enrolment cum pre-registration Fee: Rs 5000/- (one time)
3. Ph.D. Course-work Fee: Rs 25000/- (one time applicable for one year)
4. Ph.D. Semester Fee: Rs 6000/- (may be paid semester wise or annually throughout)
5. Ph.D. Registration Fee: Rs 25000/- (one time)
6. Ph.D. Thesis Submission cum Evaluation Fee: 25000/- (one time)
7. Hostel Fee: As per Institute norms to be paid along with Semester fee (optional)

Late Fee/Extension/Resubmission Fees:

1. Extension of Ph.D. course work beyond 1yr: Rs 5000/- per course
2. Extension for thesis submission beyond 5 yrs from date of registration: Rs. 10,000/- (upto 6yrs)
3. Extension for thesis submission beyond 6 yrs from date of registration: 15,000/-
4. Thesis resubmission cum evaluation Fee: Rs 25000/-
5. Resubmission of Pre-thesis synopsis Fee: Rs 7500/-
6. Late Fee for Annual progress report submission: Rs 500/- per month
7. Late fee for annual/semester fee submission: Rs 100/- per month

The Ph.D. course work fees shall be retained by the concerned affiliating Institute/constituent college/approved research centre imparting Ph.D. course work to the Ph.D. candidates.

Above Fee structure is notified with the approval of competent authority.

Sd-
Registrar

Endst. No. 6694-6695

Dated: 01/01/16

A copy of the above is forwarded to the following for information & necessary action.

- ✓ 1. Dean, Academic Affairs, MRSSTU, Bathinda.
2. Dean, Research & Development, MRSSTU, Bathinda.
3. Director, College Development Council, MRSSTU, Bathinda.
4. Director, IT Enabled Services, MRSSTU, Bathinda.
5. Assistant Registrar (Accounts), MRSSTU, Bathinda.

Dy. Registrar (Admn.)

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for file
04/1/16

MAHARAJA RANJIT SINGH STATE TECHNICAL UNIVERSITY
Ph. No 0164-2280197, Fax 0164-2280164, Email: reg@mrsstu.ac.in

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APPENDIX-VII

**GUIDELINES
&
ANTI-PLAGIARISM POLICY
FOR
ETHICAL CONDUCT IN RESEARCH**

**Maharaja Ranjit Singh
State Technical University- BaTINDA**

2016

**GUIDELINES & ANTI-PLAGIARISM POLICY FOR ETHICAL CONDUCT IN
RESEARCH**

Objective:

In pursuance of the vision and mission of MRSSTU in regard to attaining excellence in technical education and research and to provide quality human resources having high professional and ethical conduct, provisions are made for upholding and practicing research ethics by all the researchers. In addition, all students shall abide by Honor code of the University.

PART-A

UNETHICAL RESEARCH PRACTICES

1. PLAGIARISM:

- a) Claiming the work, research data, text phrase(s), paragraph(s), or idea(s) of someone else- from published or unpublished work including as available on Internet or in any other media, orally presented at any platform or personally discussed- as the candidate's own, be it researcher or faculty member or employee, either in publication or presentation or in any other form for any academic purpose, including attainment of a degree e.g. in thesis, project reports, sponsored research projects/proposals, books etc., without proper citation, acknowledgement or reference, shall be termed as plagiarism.
- b) Presenting or reproducing one's own published work- partially or in whole-without giving proper reference of the work shall also be treated as a form of self plagiarism.

2. FORGERY AND MISINTERPRETATION OF RESEARCH DATA:

Presentation of fabricated results, forged data, false statements, reporting or claiming results for which experiments have not been performed, deliberately withholding the results that do not conform to the proposed hypothesis / theory in any form- for the purpose of attaining any academic degree or benefit, including service benefit- shall also be treated as unethical research practice.

3. MISUSE OF CONFIDENTIAL INFORMATION:

Misuse of privileged or confidential information received by virtue of being an examiner to review/examine/grant research proposals/projects, or by virtue of peer reviewer for a journal, or as an examiner of a project/thesis/seminar/ or any other examination shall be deemed as unethical research conduct. Any person found guilty of passing confidential information to unauthorized person, who indulges in plagiarism, will be charged with misconduct.

PART-B

GUIDELINES FOR ETHICAL CONDUCT IN RESEARCH

1. Authors/researchers shall cite/quote others' work whether published or unpublished in all research communications wherever used in their own work. Other's work may have been published in book/journal/proceedings of conference / seminar / workshop, available on website, or orally presented in seminar.
2. Authors shall explicitly acknowledge the technical contributions made by others towards the fulfillment of the objectives of the research work submitted by them to earn an academic degree.
3. Plagiarism check, as per the relevant software available in University library or as recommended by the competent authority shall be mandatory before submission of dissertation/thesis, in partial fulfillment or as such, for the award of a research based degree. A report to this effect shall be put up before Dean R&D through the Department for consideration, adjudication, and acceptance.
4. Complete and accurate record of experimental data, which form basis of conclusions/observations in research work or thesis, shall be maintained by the researcher. Data storage whether electronically or hand written should have dates.
5. Publication should be listed as submitted or accepted only when the author has actually submitted or received letter of receipt/acceptance, as the case may be, from the authorized official of the journal handling the manuscript.
6. Author should not publish same research, including abstracts, in two places; citation must be included to avoid 'self- plagiarism'.

7. If plagiarism has been noticed or reported, it is the author's responsibility to correct or retract article as per journal's specifications.
8. All students admitted to this University shall abide by the Honor Code of the University.
9. The candidate has to certify, duly endorsed by the Supervisor, in case of studies dealing with Animals/Genomes/Stem-cells, radioactive material etc. that all Ethical clearances have been obtained and requisite facilities are available.

PART-C

HONOUR CODE OF MRSSTU, BATHINDA

"All students admitted to MRSSTU, Bathinda shall not engage in any unethical activity, morally or professionally, and shall perform all academic and research activities that enhance the prestige and honor of the University"

PART-D

ANTI-PLAGIARISM POLICY

- (1) If a draft thesis is found plagiarized and/or is reported to DDRC, it shall call the candidate to hear the candidate's view. On hearing the candidate, the DDRC shall submit its recommendations keeping in view the following guidelines:
 - (a) If the similarity between documents is within the limit (not more than 20%) for putting some original results in proper context and all original sources are correctly cited. The similarity is not of such nature which directly affects the original findings of research. No further action is required. Candidate may be permitted to submit the thesis.
 - (b) **Self-plagiarism:** "Regarding self plagiarism or cases where published work of the student himself is shown as Plagiarized in the check, a certificate (Self Plagiarism Exclusion Certificate-Annexure) has to be issued by the supervisor specifying and attaching the articles that have been published by the student from the thesis work. Only these articles should be excluded from the check; no other article of the student or supervisor should be excluded from the check."
If the similarity contents are from candidate's previous published work without proper citation then the candidate shall resubmit the work with proper citations. If

the published work is also co-authored, the researcher shall submit a consent letter from co-author(s) and the publisher permitting him to use the work in his thesis.

- (c) **Unintentional (Low-level) Plagiarism:** When the similarity between documents is marginally outside the limit and plagiarism is not deliberate or is not intended to cheat, the candidate may be allowed to resubmit the work with proper citations.
 - (d) **Inept (Mid- level) Plagiarism:** When the similarity between documents is outside the limit and relates to absence of citation(s), and copying of few sentences and paragraphs, though the intent to cheat is very low. In this case, the candidate may be allowed to resubmit the work with proper citation and with a warning not to repeat the mistake again.
 - (e) **Intentional (High-level) Plagiarism:** When the intention to cheat is obvious and deliberate and is a planned attempt to copy the work done by someone else, and is claimed as one's own to attain an academic degree. Large amount of data is taken from someone else's work directly, art work copied, source code copying etc. without citation, acknowledgements and/or permissions. The candidate's registration may be cancelled.
- (2) The thesis resubmitted as recommended by the Departmental Doctoral Research Committee will be again placed before DDRC and the candidate shall also be present to substantiate the necessary improvements made by him in the work/thesis.

PART E

ACTION FOR PLAGIARISM REPORTED

- (a) In case, any plagiarism is reported to the University when a Ph.D. degree has already been awarded, the Vice-Chancellor may constitute an expert committee to enquire into charges of plagiarism and the committee will submit its report with recommendations.
- (b) The expert committee may give the opportunity of hearing to the concerned parties as it may deem fit.
- (c) The Vice-Chancellor will place the report along with recommendations of the committee before the Academic Council for its consideration and action.
- (d) In case, plagiarism is detected/reported for any published work (books/monographs/Thesis/Dissertations/ Research papers etc.) with sufficient proofs- on

the basis of which an academic degree has been attained or any service benefit claimed/obtained, matter shall be referred by the Vice-Chancellor to an expert committee (comprising of Dean R&D, Dean Academic Affairs, HoD, and three subject experts to be nominated by the Vice-Chancellor) to enquire into the charges of plagiarism. The committee will submit its report with recommendations to Vice-Chancellor for appropriate action. In case, a high-level intentional plagiarism is established, the case shall be referred to the university Board of Governors (BoG) **for withdrawal of all academic and service benefits extended on the basis of these published works or for taking any other action that the BoG may deem fit.**

MAHARAJA RANJIT SINGH STATE TECHNICAL UNIVERSITY-BATHINDA

Self-Plagiarism Exclusion Certificate

In the thesis submitted by _____ Regd. No. _____ for the award of PhD, the content of the Chapters have been published in

(Give the details of the work published in Journals/Books etc)

- 1.
- 2.
- 3.
- 4.

This published work has been included in the thesis and has not been submitted for any degree to any University/Institute.

(Signature of the Candidate)

(Signature of Supervisor(s))

MAHARAJA RANJIT SINGH STATE TECHNICAL UNIVERSITY- BATHINDA

Self-Plagiarism certification/consent by Co-authors

We have published the following articles/Research papers jointly:

(Give the details of the work published in Journals/Books etc)

- 1.
- 2.
- 3.
- 4.

- We give our consent to Mr./Ms. Regd. No. to make use of these articles for his / her Thesis/Dissertation.
- The above research paper(s) have not been used by any of us for any degree / Diploma in any other University.
- We shall be responsible for any legal dispute/ case(s) for violation of any provisions of the Copy Right Act.

Signature of Co-author

Signature of Co-author

Signature of Co-author

Name

Name

Name

Address.....

Address

Address

.....

.....

.....

Signature of the Supervisor	Signature of the Candidate (Author)
Name	Name
Designation	
Department	Registration No.

APPENDIX-XVI

**PROPOSED GUIDELINES FOR ALLOCATING MRSSTU APPROVED UNIVERSITY
RESEARCH CENTER (URC) STATUS TO A PARTICULAR SCHOOL/DEPARTMENT
IN AN AFFILIATED INSTITUTE**

RESOURCES	DESIRABILITY
Human Resources	<ol style="list-style-type: none"> 1. Minimum 05-Ph.D. UGC/AICTE qualified faculty members with minimum 2-years of work experience in the said institute including supervisor. Out of these, 01-must be qualified as Professor as per UGC/AICTE requirements as issued from time to time, and as on the date of considering for University Research Centre (URC). In case, faculty strength drops at any stage, the said URC shall automatically cease to act as URC and Ph.D. candidates attached to it shall stand automatically attached to University Campus 2. 03-of these faculty members must be from the core Discipline, while other 02 may be from allied Discipline/Faculty
Internet Facility	24-hour uninterrupted internet connectivity is mandatory. Dedicated Leased line connectivity with minimum 18 Mbps speed, so as to meet the downloading requirements of the Ph.D. research scholars attached to the URC
Library Resources	On line access to E-Journals as specified by AICTE/UGC for the concerned discipline in the area of research of the Ph.D. research scholars attached to the said URC
Software	Minimum 02-licensed specialized research software in the concerned discipline in addition to other common computing software used by UG/PG student community
Hardware	As per the independent need of the discipline and research area of the Ph.D. candidate in a dedicated lab, both for theoretical or experimental work
PG Course	Regular PG-Course in the concerned discipline should be running in the Institute with at-least one complete pass-out Batch
Computing Facilities	Independent computing & shared printing/plotting/Xeroxing facility to be extended to the Research Scholars attached
Other Terms and Conditions	<ol style="list-style-type: none"> 1. Regular course work shall be undertaken at the concerned URC, and the candidate's course fee shall be retained by it. 2. Research proposal presentation, pre-thesis synopsis and oral defence of the Thesis shall normally be carried out at the University main campus. 3. Annual progress report seminar shall be presented at the concerned URC. 4. TA/DA and sitting fee, in force from time to time, of the authorized visiting external expert shall be paid by the University. In addition, University shall extend anti-plagiarism software facility to the Ph.D. research scholars at the time of thesis submission. 5. URCs shall be preferred for granting University financial assistance for organizing conferences and FDPs within the notified Guidelines. 6. <i>Each URC shall be entitled to financial support @Rs. 5,000/- per</i>

annum per candidate for its maintenance and running.

7. Accommodations/Hostel facility should be separately marked in the URCs for research scholars. In lieu, the hostel fee/rent at student rates shall be charged and retained by the concerned URC.
8. Ph.D. Facility Centre should be separately marked as University Research Center, with University Honor Code prominently displayed at appropriate places.

HONOUR-CODE

"All students admitted to MRSSTU, Bathinda shall not engage in any unethical activity morally or professionally and perform all academic and research activities that shall only enhance the prestige and honour of the University"

Vice-Chancellor, MRSSTU

MAHARAJA RANJIT SINGH STATE TECHNICAL UNIVERSITY, BATHINDA
(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

PhD Entrance Exam

Distribution of marks (Total Marks: 100)

Section -I

Knowledge of the subject of specialization/ Technical Section : 80 Marks
(40 Multiple choice questions of 2 marks each)

Section-II

Quantative Aptitude/ Reasoning or logical aptitude/language skills: 20 marks
(20 Multiple choice questions of 1 mark each)

Duration of examination:

Time of written test would be 1 hour

Pattern for OPaper

Time Allowed: 1 Hours

Max. Marks:100

Read the following instructions carefully :

1. This questions paper contain X printed pages including pages for rough work. Please check all pages and report discrepancy, if any.
2. Question papers consists of 2 parts.
3. Section I (80 Marks)
4. Section II (20 Marks)
5. All questions in this paper are of objective type.
6. Unattempted Questions will carry zero marks.
7. Wrong answers will carry negative mark. $1/4^{\text{th}}$ mark will be deducted for each wrong answer.
8. Answers must be shown by completely blackening the corresponding circles on Answer sheer (OMR)
9. Calculator is not allowed in the examination hall.
10. Charts , graph sheets or tables are NOT allowed in the Examination hall.
11. Rough Work Can be done on the question paper itself. Additionally, blank pages are given at the end of the question paper for rough work.

EC : ELECTRONICS AND COMMUNICATION ENGINEERING

SAMPLE QUESTIONS FOR SECTION -I

(Knowledge of the subject of specialization/ Technical Section : 80 Marks)

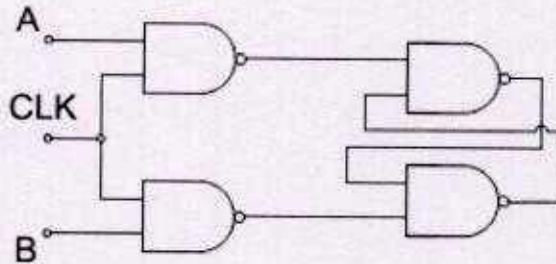
(40 Multiple choice questions of 2 marks each)

Roll No. _____

Discipline: ECE

SECTION-I

Q1: Consider the given circuit.



In this circuit, the race around

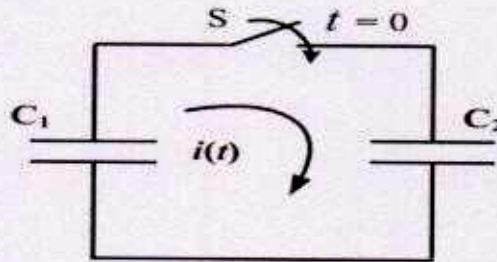
(A) does not occur

(B) occurs when CLK = 0

(C) occurs when CLK = 1 and A = B = 1

(D) occurs when CLK = 1 and A = B = 0

Q2. In the following figure, C1 and C2 are ideal capacitors. C1 has been charged to 12 V before the ideal switch S is closed at $t = 0$. The current $i(t)$ for all t is



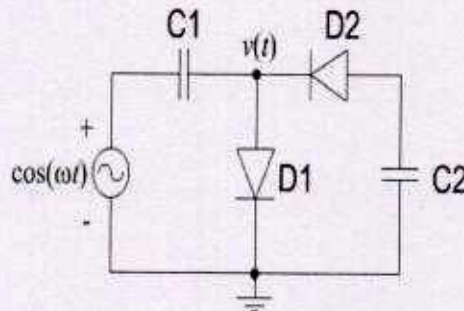
(A) zero

(B) a step function

(C) an exponentially decaying function

(D) an impulse function

Q3: The diodes and capacitors in the circuit shown are ideal. The voltage $v(t)$ across the diode D1 is



(A) $\cos(\omega t) - 1$

(B) $\sin(\omega t)$

(C) $1 - \cos(\omega t)$

(D) $1 - \sin(\omega t)$

ME : MECHANICAL ENGINEERING

SAMPLE QUESTIONS FOR SECTION -I

(Knowledge of the subject of specialization/ Technical Section : 80 Marks)
(40 Multiple choice questions of 2 marks each)

Roll No. _____

Discipline: _____

SECTION-I

- Q1. A heat engine is supplied with 2512 kJ/min of heat at 650°C. Heat rejection with 900 kJ/min takes place at 100°C. This type of heat engine is
- (a) Ideal
 - (b) Irreversible
 - (c) Impossible
 - (d) practical
- Q2. The COP of a refrigerator working on a reversed Carnot cycle is 5. The ratio of the highest absolute temperature to the lowest absolute temperature would be
- a) 1.25
 - b) 1.3
 - c) 1.4
 - d) 1.2
- Q3. Ammonia used as refrigerant is non-corrosive to
- a) Iron and steel
 - b) Copper & copper alloys
 - c) Both (a) & (b)
 - d) Neither (a) or (b)
- Q4. The comfort conditions in air- conditioning system are defined by
- a) 22°C dbt and 60% RH
 - b) 25°C dbt and 100% RH
 - c) 20°C dbt and 75% RH
 - d) 27°C dbt and 75% RH
- Q5. A bucket of water is hanging from a spring balance. An iron piece is suspended into water without touching any of the sides of bucket from another support . The spring balance reading will
- a) increase
 - b) decrease
 - c) remains the same
 - d) depends on the depth of immersion.
- Q6. The multistage compression of air as compared to single – stage compression
- a) improve volumetric efficiency for the given pressure ration
 - b) reduces work done per kg of air
 - c) gives more uniform torque
 - d) All of the above
- Q7.....

CE : CIVIL ENGINEERING

SAMPLE QUESTIONS FOR SECTION -I

(Knowledge of the subject of specialization/ Technical Section : 80 Marks)
(40 Multiple choice questions of 2 marks each)

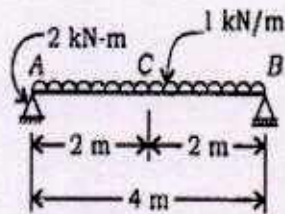
Roll No. _____

Discipline: _____

SECTION-I

- Q1. The radial splits which are wider on the outside of the log and narrower towards the pith are known as
- a) Star shakes
 - b) Annual rings
 - c) Cup shakes
 - d) Heart shakes
 - e)
- Q2. The initial setting of cement depends most on
- a) Tricalcium Aluminate
 - b) Tricalcium Silicate
 - c) Tricalcium Aluminoferrite
 - d) Dicalcium Silicate
- Q3. If one intends to obtain the best workability of concrete , the best workability of concrete,the preferred shape of aggregate is
- a) Round
 - b) Annular
 - c) Triangular
 - d) Flinty

Q4.



A freely supported beam AB of span 4m is subjected to a UDL of 1kN/ m over the full span and a moment of 2kN-m at support A as shown in fig. The resulting BM at mid-span C of the beam will be

- a) 1 kN-m (sagging)
- b) 1 kN-m (hogging)
- c) 2 kN-m (sagging)
- d) 2 kN-m (hogging)

Q6.....

EE : ELECTRICAL ENGINEERING

SAMPLE QUESTIONS FOR SECTION -I

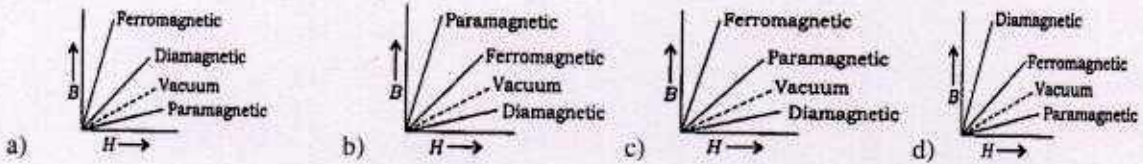
(Knowledge of the subject of specialization/ Technical Section : 80 Marks)
(40 Multiple choice questions of 2 marks each)

Roll No. _____

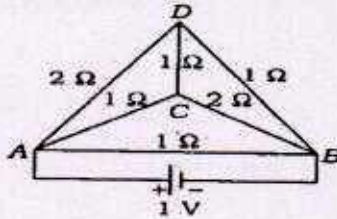
Discipline: _____

SECTION-I

Q1. The dependence of B(flux density) on H (magnetic field intensity) for different types of material is

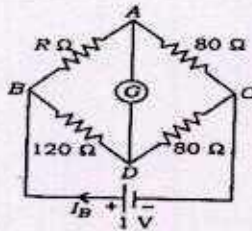


Q2. A triangular pyramid , built up of six wires whose resistances are shown in fig. , is fed from a 1V battery at the terminals A and B . The current through the branch DB is



- a) 1/7 A
- b) 2/7 A
- c) 3/7 A
- d) 4/7 A

Q3. In the circuit shown , when the current through the branch AD is zero, the battery current I_B is



- a) 1 mA
- b) 2 mA
- c) 10 mA
- d) 20 mA

Q5.....

HUMANITIES & MANAGEMENT
SAMPLE QUESTIONS FOR SECTION -I

(Knowledge of the subject of specialization/ Technical Section : 80 Marks)
(40 Multiple choice questions of 2 marks each)

Roll No. _____

Discipline: _____

SECTION-I

Q1. A perfectly competitive firm would shut down if:

- a) $AVC < AR$
- b) $AVC > AR$
- c) $AVC = MC$
- d) $AVC < MC$

Q2. In the standard form of the CES production function with two inputs, α is the:

- a) Scale parameter
- b) Distribution parameter
- c) Efficiency Parameter
- d) Substitution parameter

Q3. Existing products in the markets can be easily imitated by any new entrant in monopolistic completion because of:

- a) Independent decision making
- b) Highly elastic demand
- c) Free movement of resources
- d) Clubbing of close substitutes

Q4: If a 12% fall in price of burgers leads to a 3% increase in quantity demanded of burgers, then ϵ_p would be:

- a) -1.25
- b) -4
- c) -0.25
- d) -0.5

Q5 : Which on of the following is not a part of Porter's Five 'Force model'?

- a) Threat of new entrants
- b) Firm's core competency
- c) Rivalry among existing players
- d) Threats of Substitutes

Q6. If a leader is seen to possess certain personality characteristics, his/her leadership is described under :

- a) Trait Approach
- b) Criterion Approach
- c) The Administrative Approach
- d) Attitude Approach

Q7.....

PHARMACY

SAMPLE QUESTIONS FOR SECTION -I

(Knowledge of the subject of specialization/ Technical Section : 80 Marks)
(40 Multiple choice questions of 2 marks each)

Roll No. _____

Discipline: _____

SECTION-I

Q1: Which one of the following statement regarding insulin glargine is CORRECT?

- A) It is primarily used to control post-prandial hyperglycemia.
- B) It may be administered intravenously in emergency cases.
- C) It is a peak less insulin.
- D) It should not be used in a regimen with insulin lispro or glulisine.

Q2: The preferred insulin to control hyperglycemia in diabetic ketoacidosis,

- A) Lente insulin
- B) Neutral protamine aspart
- C) Regular human insulin
- D) Isophane insulin

Q3. Paracytic stomata are quite often found in the members of the family

- (A) Solanaceae
- (B) Scrophulariaceae
- (C) Rubiaceae
- (D) Ranunculaceae

Q4. Myasthenia gravis is diagnosed with improved neuromuscular function by using

- (A) Donepezil
- (B) Pancuronium
- (C) Atropine
- (D) Edrophonium

Q5. 3,4-Benzpyrene present in cigarette smoke reduces the therapeutic activity of diazepam by

- (A) Altering excretion
- (B) Binding to plasma proteins
- (C) Inhibiting metabolism
- (D) Increasing the activity of liver microtonal enzymes.

Q6. Which one of the following statements is wrong?

- (A) A singlet or triplet state may result when one of the electrons from the HOMO is excited to higher energy levels
- (B) In an excited singlet state, the spin of the electron in the higher energy orbital is paired with the electron in the ground state orbital
- (C) Triplet excited state is more stable than the singlet excited state
- (D) When the electron from the singlet excited state returns to ground state, the molecule always shows fluorescence phenomenon

PHYSICS

SAMPLE QUESTIONS FOR SECTION -I

(Knowledge of the subject of specialization/ Technical Section : 80 Marks)

(40 Multiple choice questions of 2 marks each)

Roll No. _____

Discipline: _____

SECTION-I

- Q1. Ferromagnetic materials respond mechanically to an impressed magnetic field, changing length slightly in the direction of the applied field. This property is known as
- (a) magnetocontraction
 - (b) magnetostriction
 - (c) transducerism
 - (d) length contraction
- Q2. For purely orbital angular momentum, the Lande' g factor is
- (a) 2
 - (b) 1
 - (c) 0
 - (d) 3/2
- Q3. In the Bode plot of an operation amplifier, a roll off rate of 20 dB/decade at high frequencies is equivalent to
- (a) 3 dB/octave
 - (b) 2 dB/octave
 - (c) 6 dB/octave
 - (d) 9 dB/octave
- Q4. In a light dependent resistor (LDR), the resistance
- (a) increases linearly with increase in the intensity of light
 - (b) decreases linearly with increase in the intensity of light
 - (c) increases non-linearly with increase in the intensity of light
 - (d) decreases non-linearly with increase in the intensity of light
- Q5. The theorem of equipartition of energy states the molecules in thermal equilibrium have same average energy associated with each independent degree of freedom and is
- (a) $kT/2$ per molecule
 - (b) kT per molecule
 - (c) kT per mole
 - (d) $kT/2$ per mole
- Q6. The dipolar polarizability of a dielectric
- (a) is independent of the temperature
 - (b) is inversely proportional to the temperature
 - (c) is directly proportional to the strength of the applied electric field
 - (d) is inversely proportional to the strength of the applied electric field

Q8.....

Q9.....

CHEMISTRY

SAMPLE QUESTIONS FOR SECTION -I

(Knowledge of the subject of specialization/ Technical Section : 80 Marks)
(40 Multiple choice questions of 2 marks each)

Roll No. _____

Discipline: _____

SECTION-I

Q1. The increasing order of ease of liquefaction of noble gases is:

- (A) He<Ne<Ar<Kr<Xe
- (B) Xe<Kr<Ar<Ne<He
- (C) Ne<He<Ar<Kr<Xe
- (D) Ne<Ar<He<Kr<Xe

Q2. For the reaction $2\text{HI}(\text{g}) \rightarrow \text{H}_2(\text{g}) + \text{I}_2(\text{g})$, $K_p = 0.0198$ at 721 K. In a particular experiment, the partial pressures of $[\text{H}_2]$ and $[\text{I}_2]$ at equilibrium are 0.710 and 0.888 atm, respectively. The partial pressure of HI is

- (A) 7.87 atm
- (B) 1.98 atm
- (C) 5.64 atm
- (D) 0.125 atm

Q3. Calculate the vibration partition function for the sodium dimer, Na_2 , molecule at 298 K. The harmonic vibration wave number is 159 cm^{-1} .

- (A) 1.107
- (B) 1.542
- (C) 2.341
- (D) 1.866

Q4. Which of the following mixture of gases is used for breathing in deep of sea by divers?

- (A) $\text{O}_2 + \text{N}_2$
- (B) $\text{O}_2 + \text{He}$
- (C) $\text{O}_2 + \text{Ne}$
- (D) $\text{O}_2 + \text{CO}_2$

- (B) IR
- (C) EPR
- (D) Mass

Q5.....

SAMPLE QUESTIONS FOR SECTION -II OF ALL DISCIPLINES

(Quantative Aptitude/ Reasoning or logical aptitude/language skills: 20 marks
(20 Multiple choice questions of 1 mark each)

SECTION -II

Roll No. _____

Discipline: _____

Q1: Which of the options given below best completes the following sentence?

She will feel much better if she _____.

- (A) will get some rest
- (B) gets some rest
- (C) will be getting some rest
- (D) is getting some rest

Q2: Choose the most appropriate word from the options given below to complete the following sentence.

Communication and interpersonal skills are _____ important in their own ways.

- (A) Each
- (B) both
- (C) all
- (D) either.

Q3: In each of the following sentences there are two blank spaces. Below each sentence there are five pairs of words denoted by numbers 1), 2), 3), 4) and 5). Find out which pair of words can be filled up in the blanks in the sentence in the same sequence to make it meaningfully complete.

(A) We should _____ our traditional ways to utilise the knowledge of medicine to plug the _____ in modern healthcare.

- (A) Tackle, unawareness
- (B) Implement, efficiency
- (C) Forward, research
- (D) Evolve, loopholes

(B) There have been other committees which had _____ these problems and had made quite practical _____

- (A) scrutinised, institution
- (B) ventured, impact
- (C) examined, proposals
- (D) geared, solutions

Q4: Detect the error.

- (A) Sancho ran as fast as he/ could walk to help his/ not able to stir/ such a blow he and Rozinante had received./ No error
- (B) As Caesar loved me./ I wept for him, /as he was fortunate/ I rejoice at it./ No error

Q5: Find Antonym

1. Stapling 1,000 Books by hand is a very tedious work.

- (A) Simple
- (B) Diffcult
- (C) Intersted
- (D) Borin

Q1: It takes 30 minutes to empty a half-full tank by draining it at a constant rate. It is decided to simultaneously pump water into the half-full tank while draining it. What is the rate at which water has to be pumped in so that it gets fully filled in 10 minutes?

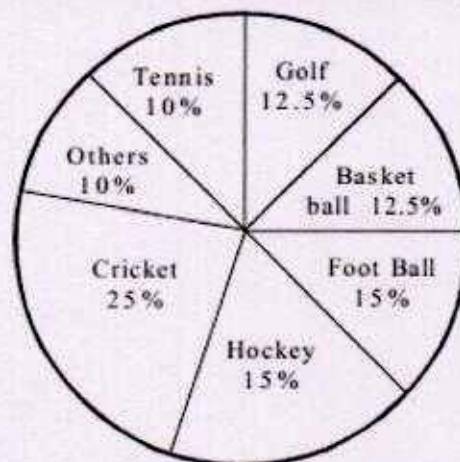
- (A) 4 times the draining rate
- (B) 3 times the draining rate
- (C) 2.5 times the draining rate
- (D) 2 times the draining rate

Q2: For an n -variable Boolean function, the maximum number of prime implicants is

- (A) $2^{(n-1)}$
- (B) $n/2$
- (C) $2n$
- (D) $2^{(n-1)}$

Q3: The pie-chart drawn below shows the spending of a country on various sports during a particular year. Study the pie-chart carefully and answer the questions given below it.

PERCENT OF MONEY SPENT ON VARIOUS SPORTS FOR ONE YEAR



- (A) If the total amount spent on sports during the year was Rs. 15000000, the amount spent on cricket and hockey together was
- (A) Rs. 2500000
 - (B) Rs. 3750000
 - (C) Rs. 5000000
 - (D) Rs. 6000000
- (B) Out of the following, the country spent the same amount on
- (A) Hockey and Tennis
 - (B) Golf and foot ball
 - (C) Cricket and Foot ball
 - (D) Football and Hockey
- (C) The ratio of the total amount spent on football to that spent on hockey is
- (A) 1: 15
 - (B) 1: 1
 - (C) 15:1
 - (D) 3: 20
- (D) If the total amount spent on sports during the year was Rs. 12000000, how much was spent on basket ball?
- (A) Rs. 950000
 - (B) Rs. 1000000
 - (C) Rs. 1200000
 - (D) Rs. 1500000

**MAHARAJA RANJIT SINGH STATE TECHNICAL UNIVERSITY,
BATHINDA**

PhD ADMISSION ELIGIBILITY AND SYLLABUS FOR PET-2016

FACULTY:- SCIENCES	DISCIPLINE:- CHEMISTRY
<u>ELIGIBILITY FOR PhD ADMISSION</u>	
MSc in Chemistry or equivalent in allied areas with minimum 55% marks (50% marks for SC/ST)	
<u>SYLLABUS FOR PhD ENTRANCE TEST (PET) (SECTION I/TECHNICAL SECTION)</u>	
Same as prescribed for NET (National Eligibility Test) for Chemistry conducted by UGC-CSIR.	
INORGANIC CHEMISTRY:	
<ol style="list-style-type: none">1. Chemical periodicity2. Structure and bonding in homo- and heteronuclear molecules, including shapes of molecules (VSEPR Theory).3. Concepts of acids and bases, Hard-Soft acid base concept, Non-aqueous solvents.4. Main group elements and their compounds: Allotropy, synthesis, structure and bonding, industrial importance of the compounds.5. Transition elements and coordination compounds: structure, bonding theories, spectral and magnetic properties, reaction mechanisms.6. Inner transition elements: spectral and magnetic properties, redox chemistry, analytical applications.7. Organometallic compounds: synthesis, bonding and structure, and reactivity. Organometallics in homogeneous catalysis.8. Cages and metal clusters.9. Analytical chemistry- separation, spectroscopic, electro- and thermoanalytical methods.10. Bioinorganic chemistry: photosystems, porphyrins, metalloenzymes, oxygen transport, electron- transfer reactions; nitrogen fixation, metal complexes in medicine.11. Characterization of inorganic compounds by IR, Raman, NMR, EPR, Mossbauer, UV-vis, NQR, MS, electron spectroscopy and microscopic techniques.12. Nuclear chemistry: nuclear reactions, fission and fusion, radio-analytical techniques and activation analysis.	
PHYSICAL CHEMISTRY:	
<ol style="list-style-type: none">1. Basic principles of quantum mechanics: Postulates; operator algebra; exactly-solvable systems: particle-in-a-box, harmonic oscillator and the hydrogen atom, including shapes of atomic orbitals; orbital and spin angular momenta; tunneling.2. Approximate methods of quantum mechanics: Variational principle; perturbation theory up to second order in energy; applications.3. Atomic structure and spectroscopy; term symbols; many-electron systems and antisymmetry principle.4. Chemical bonding in diatomics; elementary concepts of MO and VB theories; Huckel theory for conjugated π-electron systems.5. Chemical applications of group theory; symmetry elements; point groups; character tables; selection rules.6. Molecular spectroscopy: Rotational and vibrational spectra of diatomic molecules; electronic spectra; IR and Raman activities – selection rules; basic principles of magnetic resonance.7. Chemical thermodynamics: Laws, state and path functions and their applications; thermodynamic description of various types of processes; Maxwell's relations; spontaneity and equilibria; temperature and pressure dependence of thermodynamic quantities; Le Chatelier principle; elementary description of phase transitions; phase equilibria and phase rule; thermodynamics of ideal and non-ideal gases, and solutions.8. Statistical thermodynamics: Boltzmann distribution; kinetic theory of gases; partition functions and their relation to thermodynamic quantities – calculations for model systems.9. Electrochemistry: Nernst equation, redox systems; electrochemical cells; Debye-Huckel theory; electrolytic conductance – Kohlrausch's law and its applications; ionic equilibria; conductometric and potentiometric titrations.10. Chemical kinetics: Empirical rate laws and temperature dependence; complex reactions; steady state approximation; determination of reaction mechanisms; collision and transition state theories of rate constants; unimolecular reactions; enzyme kinetics; salt effects; homogeneous catalysis; photochemical reactions.	

11. Colloids and surfaces: Stability and properties of colloids; isotherms and surface area; heterogeneous catalysis.
12. Solid state: Crystal structures; Bragg's law and applications; band structure of solids.
13. Polymer chemistry: Molar masses; kinetics of polymerization.
14. Data analysis: Mean and standard deviation; absolute and relative errors; linear regression; covariance and correlation coefficient.

ORGANIC CHEMISTRY:

1. IUPAC nomenclature of organic molecules including regio- and stereoisomers.
2. Principles of stereochemistry: Configurational and conformational isomerism in acyclic and cyclic compounds; stereogenicity, stereoselectivity, enantioselectivity, diastereoselectivity and asymmetric induction.
3. Aromaticity: Benzenoid and non-benzenoid compounds – generation and reactions.
4. Organic reactive intermediates: Generation, stability and reactivity of carbocations, carbanions, free radicals, carbenes, benzyne and nitrenes.
5. Organic reaction mechanisms involving addition, elimination and substitution reactions with electrophilic, nucleophilic or radical species. Determination of reaction pathways.
6. Common named reactions and rearrangements – applications in organic synthesis.
7. Organic transformations and reagents: Functional group interconversion including oxidations and reductions; common catalysts and reagents (organic, inorganic, organometallic and enzymatic). Chemo, regio and stereoselective transformations.
8. Concepts in organic synthesis: Retrosynthesis, disconnection, synthons, linear and convergent synthesis, umpolung of reactivity and protecting groups.
9. Asymmetric synthesis: Chiral auxiliaries, methods of asymmetric induction – substrate, reagent and catalyst controlled reactions; determination of enantiomeric and diastereomeric excess; enantio-discrimination. Resolution – optical and kinetic.
10. Pericyclic reactions – electrocyclic, cycloaddition, sigmatropic rearrangements and other related concerted reactions. Principles and applications of photochemical reactions in organic chemistry.
11. Synthesis and reactivity of common heterocyclic compounds containing one or two heteroatoms (O, N, S).
12. Chemistry of natural products: Carbohydrates, proteins and peptides, fatty acids, nucleic acids, terpenes, steroids and alkaloids. Biogenesis of terpenoids and alkaloids.
13. Structure determination of organic compounds by IR, UV-Vis, ¹H & ¹³C NMR and Mass spectroscopic techniques.

INTERDISCIPLINARY TOPICS:

1. Chemistry in nanoscience and technology.
2. Catalysis and green chemistry.
3. Medicinal chemistry.
4. Supramolecular chemistry.
5. Environmental chemistry.

FACULTY:- SCIENCES

DISCIPLINE:- COMPUTER APPLICATION

ELIGIBILITY FOR PhD ADMISSION

For the enrollment in PhD in Computer Applications, the eligibility is minimum 55% marks (50% marks for SC/ST) in any of the following

- | | |
|---------------------------------|----|
| i) MCA | OR |
| ii) M.Sc. (CS) and M.Phil (CS) | OR |
| iii) M.Sc. (IT) and M.Phil (CS) | OR |
| iv) M.Sc. (IT) and M.Phil (IT) | OR |
| v) M.Sc. (CS) and M.Phil (IT) | OR |
| vi) M.Tech/ ME (CSE) | OR |
| vii) M.Tech / ME (IT). | |

SYLLABUS FOR PhD ENTRANCE TEST (PET) (SECTION I/TECHNICAL SECTION)

The entrance test will be based on the fundamental and subjective aspects of each subject whose content will be as defined by University Grants Commission for NET (UGC) examination (Computer Science & Applications).

ELIGIBILITY FOR PhD ADMISSION

M.Sc. in Physics or M.Sc. / M.E. / M.Tech or equivalent in allied areas with minimum 55% marks (50% marks for SC/ST).

SYLLABUS FOR PhD ELIGIBILITY TEST (SECTION I/ TECHNICAL SECTION):**I. Mathematical Methods of Physics**

Dimensional analysis. Vector algebra and vector calculus. Linear algebra, matrices, Cayley-Hamilton Theorem. Eigenvalues and eigenvectors. Linear ordinary differential equations of first & second order, Special functions (Hermite, Bessel, Laguerre and Legendre functions). Fourier series, Fourier and Laplace transforms. Elements of complex analysis, analytic functions; Taylor & Laurent series; poles, residues and evaluation of integrals. Elementary probability theory, random variables, binomial, Poisson and normal distributions. Central limit theorem. Green's function. Partial differential equations (Laplace, wave and heat equations in two and three dimensions). Elements of computational techniques: root of functions, interpolation, extrapolation, integration by trapezoid and Simpson's rule. Solution of first order differential equation using Runge- Kutta method. Finite difference methods. Tensors. Introductory group theory: SU(2), O(3).

II. Classical Mechanics

Newton's laws. Dynamical systems, Phase space dynamics, stability analysis. Central force motions. Two body Collisions - scattering in laboratory and Centre of mass frames. Rigid body dynamics- moment of inertia tensor. Non-inertial frames and pseudoforces. Variational principle. Generalized coordinates. Lagrangian and Hamiltonian formalism and equations of motion. Conservation laws and cyclic coordinates. Periodic motion: small oscillations, normal modes. Special theory of relativity- Lorentz transformations, relativistic kinematics and mass-energy equivalence. Dynamical systems, Phase space dynamics, stability analysis. Poisson brackets and canonical transformations. Symmetry, invariance and Noether's theorem. Hamilton-Jacobi theory.

III. Electromagnetic Theory

Electrostatics: Gauss's law and its applications, Laplace and Poisson equations, boundary value problems. Magnetostatics: Biot-Savart law, Ampere's theorem. Electromagnetic induction. Maxwell's equations in free space and linear isotropic media; boundary conditions on the fields at interfaces. Scalar and vector potentials, gauge invariance. Electromagnetic waves in free space. Dielectrics and conductors. Reflection and refraction, polarization, Fresnel's law, interference, coherence, and diffraction. Dynamics of charged particles in static and uniform electromagnetic fields. Dispersion relations in plasma. Lorentz invariance of Maxwell's equation. Transmission lines and wave guides. Radiation- from moving charges and dipoles and retarded potentials.

IV. Quantum Mechanics

Wave-particle duality. Schrödinger equation (time-dependent and time-independent). Eigenvalue problems (particle in a box, harmonic oscillator, etc.). Tunneling through a barrier. Wave-function in coordinate and momentum representations. Commutators and Heisenberg uncertainty principle. Dirac notation for state vectors. Motion in a central potential: orbital angular momentum, angular momentum algebra, spin, addition of angular momenta; Hydrogen atom. Stern-Gerlach experiment. Time- independent perturbation theory and applications. Variational method. Time dependent perturbation theory and Fermi's golden rule, selection rules. Identical particles, Pauli exclusion principle, spin-statistics connection. Spin-orbit coupling, fine structure. WKB approximation. Elementary theory of scattering: phase shifts, partial waves, Born approximation. Relativistic quantum mechanics: Klein-Gordon and Dirac equations. Semi-classical theory of radiation.

V. Thermodynamic and Statistical Physics

Laws of thermodynamics and their consequences, Thermodynamic potentials, Maxwell relations, chemical potential, phase equilibria. Phase space, micro- and macro-states. Micro-canonical, canonical and grand-canonical ensembles and

partition functions. Free energy and its connection with thermodynamic quantities. Classical and quantum statistics. Ideal Bose and Fermi gases. Principle of detailed balance. Blackbody radiation and Planck's distribution law. First- and second-order phase transitions. Diamagnetism, paramagnetism, and ferromagnetism. Ising model. Bose-Einstein condensation. Diffusion equation. Random walk and Brownian motion. Introduction to nonequilibrium processes.

VI. Electronics and Experimental Methods

Semiconductor devices (diodes, junctions, transistors, field effect devices, homo- and hetero-junction devices), device structure, device characteristics, frequency dependence and applications. Opto-electronic devices (solar cells, photo-detectors, LEDs). Operational amplifiers and their applications. Digital techniques and applications (registers, counters, comparators and similar circuits). A/D and D/A converters. Microprocessor and microcontroller basics.

Data interpretation and analysis. Precision and accuracy. Error analysis, propagation of errors. Least squares fitting. Linear and nonlinear curve fitting, chi-square test. Transducers (temperature, pressure/vacuum, magnetic fields, vibration, optical, and particle detectors). Measurement and control. Signal conditioning and recovery. Impedance matching, amplification (Op-amp based, instrumentation amp, feedback), filtering and noise reduction, shielding and grounding. Fourier transforms, lock-in detector, box-car integrator, modulation techniques. High frequency devices (including generators and detectors).

VII. Atomic & Molecular Physics

Quantum states of an electron in an atom. Electron spin. Spectrum of helium and alkali atom. Relativistic corrections for energy levels of hydrogen atom, hyperfine structure and isotopic shift, width of spectrum lines, LS & JJ couplings. Zeeman, Paschen-Bach & Stark effects. Electron spin resonance. Nuclear magnetic resonance, chemical shift. Frank-Condon principle. Born-Oppenheimer approximation. Electronic, rotational, vibrational and Raman spectra of diatomic molecules, selection rules. Lasers: spontaneous and stimulated emission, Einstein A & B coefficients. Optical pumping, population inversion, rate equation. Modes of resonators and coherence length.

VIII. Condensed Matter Physics

Bravais lattices. Reciprocal lattice. Diffraction and the structure factor. Bonding of solids, Elastic properties, phonons, lattice specific heat. Free electron theory and electronic specific heat. Response and relaxation phenomena. Drude model of electrical and thermal conductivity. Hall effect and thermoelectric power. Electron motion in a periodic potential, band theory of solids: metals, insulators and semiconductors. Superconductivity: type-I and type-II superconductors. Josephson junctions, Superfluidity. Defects and dislocations. Ordered phases of matter: translational and orientational order, kinds of liquid crystalline order. Quasi crystals.

IX. Nuclear and Particle Physics

Basic nuclear properties: size, shape and charge distribution, spin and parity. Binding energy, semi-empirical mass formula, liquid drop model. Nature of the nuclear force, form of nucleon-nucleon potential, charge-independence and charge-symmetry of nuclear forces. Deuteron problem. Evidence of shell structure, single-particle shell model, its validity and limitations. Rotational spectra. Elementary ideas of alpha, beta and gamma decays and their selection rules. Fission and fusion. Nuclear reactions, reaction mechanism, compound nuclei and direct reactions.

Classification of fundamental forces. Elementary particles and their quantum numbers (charge, spin, parity, isospin, strangeness, etc.). Gellmann-Nishijima formula. Quark model, baryons and mesons. C, P, and T invariance. Application of symmetry arguments to particle reactions. Parity non-conservation in weak interaction. Relativistic kinematics.

X. Miscellaneous general question in basic physics.

ELIGIBILITY FOR PhD ADMISSION

M.Sc (Mathematics) or equivalent in allied areas with minimum 55% marks (50% marks for SC/ST).

SYLLABUS FOR PhD ELIGIBILITY TEST (SECTION I/TECHNICAL SECTION):***Ordinary Differential Equations (ODEs):***

Existence and uniqueness of solutions of initial value problems for first order ordinary differential equations, singular solutions of first order ODEs, system of first order ODEs. General theory of homogenous and non-homogeneous linear ODEs, variation of parameters, Sturm-Liouville boundary value problem, Green's function.

Partial Differential Equations (PDEs):

Lagrange and Charpit methods for solving first order PDEs, Cauchy problem for first order PDEs. Classification of second order PDEs, General solution of higher order PDEs with constant coefficients, Method of separation of variables for Laplace, Heat and Wave equations.

3-Dimensional Geometry and Vector Calculus***Laplace and Fourier Transforms******Numerical Analysis :***

Numerical solutions of algebraic equations, Method of iteration and Newton-Raphson method, Rate of convergence, Solution of systems of linear algebraic equations using Gauss elimination and Gauss-Seidel methods, Finite differences, Lagrange, Hermite and spline interpolation, Numerical differentiation and integration, Numerical solutions of ODEs using Picard, Euler, modified Euler and Runge-Kutta methods.

Linear Integral Equations:

Linear integral equation of the first and second kind of Fredholm and Volterra type, Solutions with separable kernels, Characteristic numbers and eigenfunctions, resolvent kernel.

Classical Mechanics:

Generalized coordinates, Lagrange's equations, Hamilton's canonical equations, Hamilton's principle and principle of least action, Two-dimensional motion of rigid bodies, Euler's dynamical equations for the motion of a rigid body about an axis, theory of small oscillations.

Linear Algebra: Vector spaces, subspaces, linear dependence, basis, dimension, algebra of linear transformations, Algebra of matrices, rank and determinant of matrices, linear equations, Eigenvalues and eigenvectors, Cayley-Hamilton theorem, Matrix representation of linear transformations, Change of basis, canonical forms, diagonal forms, triangular forms, Jordan forms.

Quadratic forms, reduction and classification of quadratic forms

Algebra:

Groups, subgroups, normal subgroups, quotient groups, homomorphisms, cyclic groups, permutation groups, Cayley's theorem, class equations, Sylow theorems.

Rings, ideals, prime and maximal ideals, quotient rings, unique factorization domain, principal ideal domain, Euclidean domain.

Polynomial rings and irreducibility criteria. Fields, finite fields, field extensions, Galois Theory.

Topology: basis, dense sets, subspace and product topology, separation axioms, connectedness and compactness.

Analysis: Elementary set theory, finite, countable and uncountable sets, Real number system as a complete ordered field, Archimedean property, supremum, infimum, Sequences and series, convergence, limsup, liminf, Bolzano Weierstrass theorem, Heine Borel theorem.

Continuity, uniform continuity, differentiability, mean value theorem. Sequences and series of functions, uniform convergence.

Riemann sums and Riemann integral, Improper Integrals.

Monotonic functions, types of discontinuity, functions of bounded variation, Lebesgue measure, Lebesgue integral.

Complex Analysis

Analytic functions, Cauchy-Riemann equations. Contour integral, Cauchy's theorem, Cauchy's integral formula, Liouville's theorem, Maximum modulus principle, Schwarz lemma, Open mapping theorem. Taylor series, Laurent series, calculus of residues. Conformal mappings, Mobius transformations.

Statistics and data analysis

Sample space, discrete probability, independent events, Bayes theorem. Random variables and distribution functions (univariate and multivariate); expectation and moments. Independent random variables, marginal and conditional distributions. Characteristic functions. Probability inequalities (Tchebyshef, Markov, Jensen). Modes of convergence, weak and strong laws of large numbers, Central Limit theorems (i.i.d. case).

Markov chains with finite and countable state space, classification of states, limiting behaviour of n-step transition probabilities, stationary distribution, Poisson and birth-and-death processes.

Standard discrete and continuous univariate distributions. sampling distributions, standard errors and asymptotic distributions, distribution of order statistics and range.

Methods of estimation, properties of estimators, confidence intervals. Tests of hypotheses: most powerful and uniformly most powerful tests, likelihood ratio tests. Analysis of discrete data and chi-square test of goodness of fit. Large sample tests.

Simple random sampling, stratified sampling and systematic sampling. Probability proportional to size sampling. Ratio and regression methods. Completely randomized designs, randomized block designs and Latin-square designs.

ELIGIBILITY FOR PhD ADMISSION

A candidate seeking admission to Ph.D. Programme must satisfy the following requirements:

1. Master's degree with at least 55% marks in aggregate in the subject concerned or in an allied subject (50% for SC/ST candidates)
2. Master's Degree or any other degree recognized equivalent thereto in
 - (a) Business Administration or Economics or Commerce or in allied subjects
 - (b) Post Graduate Diploma in Management (PGDM) recognized equivalent to MBA by AICTE
 - (c) Mathematics, Statistics, Psychology, Public Administration, Operations Research and Engineering
 - (d) Masters in Finance and Control (MFC)
3. Candidates who have passed C.A./I.C.W.A./Company Secretary examinations are eligible for Ph.D. programme

List of Allied Subjects in Management

1. Commerce
2. Economics
3. Psychology
4. Management Studies
5. Engineering (Production Management/Technology Management)
6. Information (Management/Computer Application/System Management)
7. Banking
8. Retail
9. Insurance
10. International Business/Foreign Trade
11. Marketing Administration/Management
12. Financial Administration /Management
13. Human Resource Administration/Management
14. Rural Management/Administration/Development
15. Agro base Management
16. Tourism Administration/Management
17. Hotel and Hospitality Administration/ Management
18. Health Care Administration/Management
19. Disaster Management
20. Public Policy/Management

SYLLABUS FOR PhD ENTRANCE TEST (PET) (SECTION I/TECHNICAL SECTION)

The Syllabus shall be same as that for the latest UGC NET examination meant for COMMERCE and for MANAGEMENT streams.

ELIGIBILITY FOR PhD ADMISSION

The candidates with M.Tech. /M.E. in Mech./ Production/Industrial/Design/ CAD/CAM or in equivalent relevant field of specialization of mechanical engineering with minimum 55% marks (50% marks for SC/ST)

SYLLABUS FOR PhD ENTRANCE TEST (PET) (SECTION I/TECHNICAL SECTION)**ENGINEERING MATHEMATICS**

Linear Algebra: Matrix algebra, Systems of linear equations, Eigen values and eigen vectors.

Calculus: Functions of single variable, Limit, continuity and differentiability, Mean value theorems, Evaluation of definite and improper integrals, Partial derivatives, Total derivative, Maxima and minima, Gradient, Divergence and Curl, Vector identities, Directional derivatives, Line, Surface and Volume integrals, Stokes, Gauss and Green's theorems.

Differential equations: First order equations (linear and nonlinear), Higher order linear differential equations with constant coefficients, Cauchy's and Euler's equations, Initial and boundary value problems, Laplace transforms, Solutions of one dimensional heat and wave equations and Laplace equation.

Complex variables: Analytic functions, Cauchy's integral theorem, Taylor and Laurent series.

Probability and Statistics: Definitions of probability and sampling theorems, Conditional probability, Mean, median, mode and standard deviation, Random variables, Poisson, Normal and Binomial distributions.

Numerical Methods: Numerical solutions of linear and non-linear algebraic equations Integration by trapezoidal and Simpson's rule, single and multi-step methods for differential equations.

APPLIED MECHANICS AND DESIGN

Engineering Mechanics: Free body diagrams and equilibrium; trusses and frames; virtual work; kinematics and dynamics of particles and of rigid bodies in plane motion, including impulse and momentum (linear and angular) and energy formulations; impact.

Strength of Materials: Stress and strain, stress-strain relationship and elastic constants, Mohr's circle for plane stress and plane strain, thin cylinders; shear force and bending moment diagrams; bending and shear stresses; deflection of beams; torsion of circular shafts; Euler's theory of columns; strain energy methods; thermal stresses.

Theory of Machines: Displacement, velocity and acceleration analysis of plane mechanisms; dynamic analysis of slider-crank mechanism; gear trains; flywheels.

Vibrations: Free and forced vibration of single degree of freedom systems; effect of damping; vibration isolation; resonance, critical speeds of shafts.

Design: Design for static and dynamic loading; failure theories; fatigue strength and the S-N diagram; *principles* of the design of machine elements such as bolted, riveted and welded joints, shafts, spur gears, rolling and sliding contact bearings, brakes and clutches.

FLUID MECHANICS AND THERMAL SCIENCES

Fluid Mechanics: Fluid properties; fluid statics, manometry, buoyancy; control-volume analysis of mass, momentum and energy; fluid acceleration; differential equations of continuity and momentum; Bernoulli's equation; viscous flow of incompressible fluids; boundary layer; elementary turbulent flow; flow through pipes, head losses in pipes, bends etc.

Heat-Transfer: Modes of heat transfer; one dimensional heat conduction, resistance concept, electrical analogy, unsteady heat conduction, fins; dimensionless parameters in free and forced convective heat transfer, various correlations for heat transfer in flow over flat plates and through pipes; thermal boundary layer; effect of turbulence; radiative heat transfer, black and grey surfaces, shape factors, network analysis; heat exchanger performance, LMTD and NTU methods.

Thermodynamics: Zeroth, First and Second laws of thermodynamics; thermodynamic system and processes; Carnot cycle, irreversibility and availability; behaviour of ideal and real gases, properties of pure substances, calculation of work and heat

in ideal processes; analysis of thermodynamic cycles related to energy conversion.

Applications: *Power Engineering:* Steam Tables, Rankine, Brayton cycles with regeneration and reheat. *I.C. Engines:* air-standard Otto, Diesel cycles. *Refrigeration and air-conditioning:* Vapour refrigeration cycle, heat pumps, gas refrigeration, Reverse Brayton cycle; moist air: psychrometric chart, basic psychrometric processes. *Turbomachinery:* Pelton-wheel, Francis and Kaplan turbines — impulse and reaction principles, velocity diagrams.

MANUFACTURING AND INDUSTRIAL ENGINEERING

Engineering Materials: Structure and properties of engineering materials, heat treatment, stress-strain diagrams for engineering materials.

Metal Casting: Design of patterns, moulds and cores; solidification and cooling; riser and gating design, design considerations.

Forming: Plastic deformation and yield criteria; fundamentals of hot and cold working processes; load estimation for bulk (forging, rolling, extrusion, drawing) and sheet (shearing, deep drawing, bending) metal forming processes; principles of powder metallurgy.

Joining: Physics of welding, brazing and soldering; adhesive bonding; design considerations in welding.

Machining and Machine Tool Operations: Mechanics of machining, single and multi-point cutting tools, tool geometry and materials, tool life and wear; economics of machining; principles of non-traditional machining processes; principles of work holding, principles of design of jigs and fixtures

Metrology and Inspection: Limits, fits and tolerances; linear and angular measurements; comparators; gauge design; interferometry; form and finish measurement; alignment and testing methods; tolerance analysis in manufacturing and assembly.

Computer Integrated Manufacturing: Basic concepts of CAD/CAM and their integration tools.

Production Planning and Control: Forecasting models, aggregate production planning, scheduling, materials requirement planning.

Inventory Control: Deterministic and probabilistic models; safety stock inventory control systems.

Operations Research: Linear programming, simplex and duplex method, transportation, assignment, network flow models, simple queuing models, PERT and CPM

FACULTY:- ENGG & TECH

DISCIPLINE:- **Electronics and Communication Engg. (ECE)**

ELIGIBILITY FOR PhD ADMISSION

M.Tech/ M.E in ECE/ EE/ EEE/ E&I/ CSE/ IT or equivalent in allied areas with minimum 55% marks (50% marks for SC/ST).

SYLLABUS FOR PhD ELIGIBILITY TEST (SECTION I/TECHNICAL SECTION):

Syllabus for technical section of the test shall be same as that of GATE-2016 meant for ECE stream.

FACULTY:- ENGG & TECH

DISCIPLINE:- ELECTRICAL ENGG. (EE)

ELIGIBILITY FOR PhD ADMISSION

M.Tech/ M.E in EE/ ECE/ EEE/ E&I or equivalent in allied areas with minimum 55% marks (50% marks for SC/ST).

SYLLABUS FOR PhD ELIGIBILITY TEST (SECTION I/TECHNICAL SECTION):

Syllabus for technical section of the test shall be same as that GATE-2016 meant for EE stream.

FACULTY:- ENGG & TECH

DISCIPLINE:- CIVIL ENGG.

ELIGIBILITY FOR PhD ADMISSION

M.Tech/ M.E in Civil Engg. or equivalent in allied areas with minimum 55% marks (50% marks for SC/ST).

SYLLABUS FOR PhD ELIGIBILITY TEST (SECTION I/TECHNICAL SECTION):

Syllabus of technical section of PhD entrance Test (PET) will be same as that of GATE 2016 (excluding maths) in Civil Engg Stream

FACULTY:- ENGG & TECH

DISCIPLINE:- TEXTILE ENGG.

ELIGIBILITY FOR PhD ADMISSION

M.Tech/ M.E in Textile Technology/ Textile Engg./ textile Chemical Processing or equivalent in allied areas with minimum 55% marks (50% marks for SC/ST).

SYLLABUS FOR PhD ELIGIBILITY TEST (SECTION I/TECHNICAL SECTION):

Section 1: Textile Fibers

Classification of textile fibers; Essential requirements of fiber forming polymers; Gross and fine structure of natural fibers like cotton, wool, silk, Introduction to important bast fibres; properties and uses of natural and man-made fibres including carbon, aramid and ultra high molecular weight polyethylene (UHMWPE) fibers; physical and chemical methods of fiber and blend identification and blend analysis.

Molecular architecture, amorphous and crystalline phases, glass transition, plasticization, crystallization, melting, factors affecting T_g and T_m; Production process of viscose and other regenerated cellulosic fibres such as polynosic, lyocell. Polymerization of nylon-6, nylon-66, poly (ethylene terephthalate), polyacrylonitrile and polypropylene; Melt Spinning processes for PET, polyamide and polypropylene; Wet and dry spinning processes for viscose and acrylic fibres; post spinning operations such as drawing, heat setting, tow- to-top conversion and different texturing methods.

Methods of investigating fibre structure e.g., Density, X-ray diffraction, birefringence, optical and electron microscopy, I.R. spectroscopy, thermal methods (DSC, DMA/TMA, TGA); structure and morphology of man-made fibres, mechanical properties of fibres, moisture sorption in fibres; fibre structure and property correlation.

Section 2: Yarn manufacture, Yarn structure and Properties

Principles of opening, cleaning and mixing/blending of fibrous materials, working principle of modern opening and cleaning equipment; the technology of carding, carding of cotton and synthetic fibres; Drafting operation, roller and apron drafting principle, causes of mass irregularity introduced by drafting; roller arrangements in drafting systems; principles of cotton combing, combing cycle, mechanism and function, combing efficiency, lap preparation; recent developments in comber; Roving production, mechanism of bobbin building, roving twist; Principle of ring spinning, forces acting on yarn and traveler, ring

& traveler designs, mechanism of cop formation, causes of end breakages; Working principle of ring doubler and two for one twister, single and folded yarn twist, properties of double yarns, production of core spun yarn; Principles of compact, rotor, air jet, air vortex, core, wrap, twist less and friction spinning.

Yarn contraction, yarn diameter, specific volume & packing coefficient; Twist factor, twist strength relationship in spun yarns; Fibre configuration and orientation in yarn; Cause of fibre migration and its estimation; Irregularity index; Structure property relationship of compact ring, rotor, air-jet and friction spun yarns.

Section 3: Fabric manufacture, Structure and Properties

Principles of winding processes and machines, random, precision and step precision winding, package faults and their remedies; Yarn clearers and tensioners; Different systems of yarn splicing; Features of modern cone winding machines; Different types of warping creels; features of modern beam and sectional warping machines; Different sizing systems, sizing of spun and filament yarns, sizing machines; Principles of pirn winding processes and machines.

Primary and secondary motions of loom, cam design & kinematics of sley, effect of their settings and timings on fabric formation, fabric appearance and weaving performance; Dobby and jacquard shedding; Mechanics of weft insertion with shuttle, warp and weft stop motions, warp protection, weft replenishment; Principles of weft insertion systems of shuttle-less weaving machines; Principles of multiphase and circular looms.

Principles of weft and warp knitting, basic weft and warp knitted structures; Classification, production, properties and application of nonwoven fabrics, principle of web formation & bonding.

Basic woven fabric constructions and their derivatives; crepe, cord, terry, gauze, leno and double cloth constructions. Peirce's equations for fabric geometry; elastica model of plain woven fabrics; thickness, cover and maximum set of woven fabrics.

Section 4: Textile Testing

Sampling techniques, sample size and sampling errors; Measurement of fibre length, fineness, crimp; measurement of cotton fiber maturity and trash content; High volume fibre testing; Measurement of yarn count, twist and hairiness; Tensile testing of fibers, yarns and fabrics; Evenness testing of slivers, rovings and yarns; Classimat fault analysis; Testing equipment for measurement of fabric properties like thickness, compressibility, air permeability, wetting & wicking, drape, crease recovery, tear strength, bursting strength and abrasion resistance; Instruments and systems for objective evaluation of fabric hand. Statistical analysis of experimental results, frequency distributions, correlation, significance tests, analysis of variance and control charts.

Section 5: Chemical processing

Impurities in natural fibre; Chemistry and practice of preparatory processes for cotton, wool and silk; Mercerization of cotton; Preparatory processes for manmade fibres and their blends.

Classification of dyes; Dyeing of cotton, wool, silk, polyester, nylon and acrylic with appropriate dye classes; Dyeing of polyester/cotton and polyester/wool blends; Dyeing machines; Dyeing of cotton knitted fabrics and machines used; Dyefibre interaction; Introduction to thermodynamics and kinetics of dyeing; Methods for determination of wash, light and rubbing fastness.

Styles of printing; Printing thickeners including synthetic thickeners; Printing auxiliaries; Printing of cotton with reactive dyes, wool, silk, nylon with acid and metal complex dyes, Printing of polyester with disperse dyes; Pigment printing; Resist and discharge printing of cotton, silk and polyester; Transfer printing of polyester; Inkjet printing.

Mechanical finishing of cotton. Stiff, soft, wrinkle resistant, water repellent, flame retardant and enzyme (bio-polishing) finishing of cotton; Milling, decatizing and shrink resistant finishing of wool; Antistatic and soil release finishing; Heat setting of synthetic fabrics; Minimum application techniques; Pollution control and treatment of effluents.

ELIGIBILITY FOR PhD ADMISSION

M.Tech/ M.E in CSE/ ECE/ IT or equivalent in allied areas with minimum 55% marks (50% marks for SC/ST).

SYLLABUS FOR PhD ELIGIBILITY TEST (SECTION I/TECHNICAL SECTION):

Mathematical Logic: Propositional Logic; First Order Logic.

Probability: Conditional Probability; Mean, Median, Mode and Standard Deviation; Random Variables; Distributions; uniform, normal, exponential, Poisson, Binomial.

Set Theory & Algebra: Sets; Relations; Functions; Groups; Partial Orders; Lattice; Boolean Algebra.

Combinatorics: Permutations; Combinations; Counting; Summation; generating functions; recurrence relations; asymptotics.

Graph Theory: Connectivity; spanning trees; Cut vertices & edges; covering; matching; independent sets; Colouring; Planarity; Isomorphism.

Digital Logic: Logic functions, Minimization, Design and synthesis of combinational and sequential circuits; Number representation and computer arithmetic (fixed and floating point).

Computer Organization and Architecture: Machine instructions and addressing modes, ALU and data-path, CPU control design, Memory interface, I/O interface (Interrupt and DMA mode), Instruction pipelining, Cache and main memory, Secondary storage.

Programming and Data Structures: Programming in C; Functions, Recursion, Parameter passing, Scope, Binding; Abstract data types, Arrays, Stacks, Queues, Linked Lists, Trees, Binary search trees, Binary heaps.

Algorithms: Analysis, Asymptotic notation, Notions of space and time complexity, Worst and average case analysis; Design: Greedy approach, Dynamic programming, Divide-and-conquer; Tree and graph traversals, Connected components, Spanning trees, Shortest paths; Hashing, Sorting, Searching. Asymptotic analysis (best, worst, average cases) of time and space, upper and lower bounds, Basic concepts of complexity classes P, NP, NP-hard, NP-complete.

Theory of Computation: Regular languages and finite automata, Context free languages and Push-down automata, Recursively enumerable sets and Turing machines, Undecidability.

Compiler Design: Lexical analysis, Parsing, Syntax directed translation, Runtime environments, Intermediate and target code generation, Basics of code optimization.

Operating System: Processes, Threads, Inter-process communication, Concurrency, Synchronization, Deadlock, CPU scheduling, Memory management and virtual memory, File systems, I/O systems, Protection and security.

Databases: ER-model, Relational model (relational algebra, tuple calculus), Database design (integrity constraints, normal forms), Query languages (SQL), File structures (sequential files, indexing, B and B+ trees), Transactions and concurrency control.

Computer Networks: ISO/OSI stack, LAN technologies (Ethernet, Token ring), Flow and error control techniques, Routing algorithms, Congestion control, TCP/UDP and sockets, IP(v4), Application layer protocols (ICMP, DNS, SMTP, POP, FTP, HTTP); Basic concepts of hubs, switches, gateways, and routers, Network security basic concepts of public key and private key cryptography, digital signature, firewalls.

Agenda items:**Item 1.1**

Ms. Vidhu Kiran was selected for admission in GZSPTU Campus, Bathinda under QIP in 2014 and completed her pre-registration work between 1-8-2014 to 31-3-2015. She had joined GZSPTU Campus, Bathinda for Ph.D. (2015-2018) under QIP on 16-9-2015. The college was under PTU in 2014 but now it is under MRSSTU, Bathinda.

The case is put up for decision regarding the regulations of which University are to be applied.

Item 1.2

Dr. Shaveta Rani, Associate Professor, Department of CSE, has agreed to be the Supervisor of Ms. Vidhu Kiran, Ph.D. student, GZSPTU Campus, Bathinda.

It is placed before DDRC for approval of Supervisor.

Item 1.3

Before start of course work, the candidate has to enroll for Ph.D. and specify the Broad area of Research.

The case is put for the approval of enrollment and Broad Area of Research.

Item 1.4

Candidate has to study some subjects during Ph.D. course work. As per the QIP requirement, course work is to be done by the candidate in the current semester. Also evaluation criteria is to be decided for these subjects.

It is submitted for decision on subjects and course work in current semester.

Item 1.5

Ms. Vidhu Kiran has not deposited any fee's till now (i.e. Enrolment fee, Semester fee and course work fee).

It is placed before the DDRC for decision regarding fine.

Item 1.6

Another candidate, Mr. Rajiv Vasudev was selected for admission in PhD under QIP at GZSPTU Campus, Bathinda in 2014. He has completed the pre-registration work and submitted his joining report on 31/8/15, but he has not reported in the college after that.

It is submitted for decision.

Item 1.7

For admission in 2016 under QIP, three applications were received and after scrutinizing the applications, only one candidate has been found to fulfill the eligibility criteria. He was sent the call for interview letter on 31-12-2015. The interview will be held on 28-3-2016. As per Ph.D. regulations of MRSSTU, Bathinda, the interview has to be conducted by the DDRC committee.

It is placed for information of DDRC and necessary action.

1/5

Minutes of Meeting

A meeting of DEBC was held on 02-02-2022 in committee room of GZSCCTE, Bahinda. Following members were present.

1. Dr. (Prof.) Paranjit Singh, (Chairperson)
Head Faculty of Engg. MRSSU, Bahinda.
2. Dr. (Prof.) Gursharan Singh,
Dean Academic Affairs, MRSSU, Bahinda.
3. Dr. (Prof.) R.K. Bansal,
Professor, Dept. of IIT,
Dean Students Welfare, MRSSU, Bahinda.
4. Dr. Paranjit Singh,
Associate Prof., Dept. of CSE, GZSCCTE, Bahinda.
5. Dr. Shweta Rani,
Associate Prof., Dept. of CSE, GZSCCTE, Bahinda.
6. Dr. Nareesh Garg,
Associate Prof., Dept. of CSE, GZSCCTE, Bahinda
Head, Dept. of CSE, GZSCCTE, Bahinda.
7. Fr. Abhilasha Jain
Associate Prof., Dept. of CSE, GZSCCTE, Bahinda
(Special invitee)

*Sun
02/2/22*

Contd page 2

Item 1.5

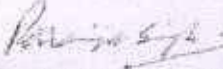
The candidate has to start course work in current semester and deposit all the pending fees without late fees by 08/2/2015. Course work shall continue for the full semester period as per UGC guidelines.

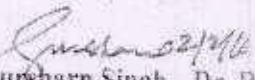

Item 1.6

Letter is to be sent to the candidate to continue immediately in the college for course work.

Item 1.7

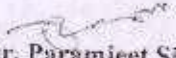
Information has been noted.


Dr. Paramjit Singh,
Dean

 
Prof. Gursharn Singh Dr. R K Bansal


Dr. Naresh Kumar


Dr. Shaveta Rani


Dr. Paramjeet Singh


En. Attri Lasha Jain

RESEARCH LAB (PHCS-101)

LTPC

[0-0-4-2]

Max marks 100

Internal 50

External 50

Experiments are to be performed related to research area of PhD Candidate. Experiments related to fields like statistics etc (which are useful for research) should also be performed. Minimum 8 to 10 experiments should be performed.

SEMINAR (PHCS-102)

LTPC

[0-2-0-1]

There will be three presentations for this course pertaining to literature review for major research area of the candidate. The evaluation will be either satisfactory or unsatisfactory.

MINUTES OF 1ST DEANS OF FACULTIES MEETING HELD ON 4.11.2015

ITEM NO. 01.01: TO REPORT THE NAMES OF VARIOUS BOARDS OF STUDIES CONSTITUTED

DECISION: The information was noted.

ITEM NO. 01.02-01.14: TO APPROVE THE NEW PROPOSED REGULAR POST GRADUATE COURSES FROM 2016-17/INFORM ALREADY OFFERED COURSES AT GZS CAMPUS COLLEGE OF ENGINEERING & TECHNOLOGY, BATHINDA/DISCONTINUE THE ALREADY RUNNING PART TIME POST GRADUATE COURSES:

ITEM NO. 01.02: DEPARTMENT OF CIVIL ENGINEERING

S. No.	Courses	Intake
Already offered Regular Courses		
1	B.Tech. (Civil Engineering)	120
2	M.Tech. (Construction Technology & Management)	18
Proposed Courses (2016-17)		
1	M.Tech. Civil Engineering (Geo-Technical Engineering)	18
2	M.Tech. Civil Engineering (Structural & Foundation Engineering)	18
3	M.Tech. Civil Engineering (Infra Structural Engineering)	18
4	M.Tech. Civil Engineering (Geo-informatics & Surveying Technology)	18
5	M.Tech. Civil Engineering (Environmental Engineering & Management)	18

DECISION: The members noted the courses already running in Department of Civil Engineering, Giani Zail Singh Campus College of Engineering & Technology, Bathinda and they proposed to start new courses from 2016-17 session with change in nomenclature of degrees. The matter is placed for further consideration.

ITEM NO. 01.03: DEPARTMENT OF MECHANICAL ENGINEERING

S. No.	Courses	Intake
Already offered Regular Courses		
1	B.Tech. (Mechanical Engineering)	120
2	M.Tech. (Mechanical Engineering)	18
Proposed Courses (2016-17)		
1	M.Tech. Mechanical Engineering (Automation & Robotics)	18

MINUTES OF 1ST DEANS OF FACULTIES MEETING HELD ON 4.11.2015

2	M.Tech. Mechanical Engineering (Computer Aided Design, Manufacture & Automation)	18
3	M.Tech. Mechanical Engineering (Industrial & Production Engineering)	18

DECISION: The members noted the courses already running in Department of Mechanical Engineering, Giani Zail Singh Campus College of Engineering & Technology, Bathinda and they proposed to start new courses from 2016-17 session with change in nomenclature of degrees. The matter is placed for further consideration.

ITEM NO. 01.04: DEPARTMENT OF ELECTRICAL ENGINEERING

S. No.	Courses	Intake
Already offered Regular Courses		
1	B.Tech. (Electrical Engineering)	60
Proposed Courses (2016-17)		
1	M.Tech. Electrical Engineering (Instrumentation & Control Engineering)	18
2	M.Tech. Electrical Engineering (Power System)	18

DECISION: The members noted the courses already running in Department of Electrical Engineering, Giani Zail Singh Campus College of Engineering & Technology, Bathinda and they proposed to start new courses from 2016-17 session with change in nomenclature of degrees. The matter is placed for further consideration.

ITEM NO. 01.05: DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

S. No.	Courses	Intake
Already offered Regular Courses		
1	B.Tech. (Electronics & Communication Engineering)	60
2	*M.Tech. (Electronics & Communication Engineering)	50
Proposed Courses (2016-17)		
1	M.Tech. ECE (Embeded System)	18
2	M.Tech. ECE (Signal Processing)	18
3	M.Tech. (Electronics & Communications)	18

- Instead of 50 seats, there would be 18 seats each in each M.Tech. ECE as mentioned above.

DECISION: The members noted the courses already running in Department of Electronics & Communication Engineering, Giani Zail Singh Campus College of

MINUTES OF 1ST DEANS OF FACULTIES MEETING HELD ON 4.11.2015

Engineering & Technology, Bathinda and they proposed to start new courses from 2016-17 session with change in nomenclature of degrees. The matter is placed for further consideration.

ITEM NO. 01.06: DEPARTMENT OF TEXTILE ENGINEERING

S. No.	Courses	Intake
Already offered Regular Courses		
1	B.Tech. (Textile Engineering)	60
Proposed Courses (2016-17)		
1	M.Tech. (Textile Technology)	18

DECISION: The members noted the courses already running in Department of Textile Engineering, Giani Zail Singh Campus College of Engineering & Technology, Bathinda and they proposed to start new courses from 2016-17 session. The matter is placed for further consideration.

ITEM NO. 01.07: DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

S. No.	Courses	Intake
Already offered Regular Courses		
1	B.Tech. (Computer Sc. & Engineering)	150
Proposed Courses (2016-17)		
1	M.Tech. CSE (Software Engineering)	18
2	M.Tech. CSE (Computer Networks & Information Security)	18
Admission Discontinuation From 2016-17		
1	M.Tech. (Computer Sc. & Engineering) [Non-AICTE]	25

DECISION: The members noted the courses already running in Department of Computer Science & Engineering, Giani Zail Singh Campus College of Engineering & Technology, Bathinda and they proposed to start new courses from 2016-17 session with changes in nomenclature of degrees. The members also proposed that admission to M.Tech. (Computer Sc. & Engineering) [Non-AICTE] may be discontinued w.e.f. 2016-17. The matter is placed for further consideration.

ITEM NO. 01.08: DEPARTMENT OF ARCHITECTURE

S. No.	Courses	Intake
Already offered Regular Courses		
1	B.Arch.	40
Proposed Courses (2016-17)		
1	M.Arch. (Building Engineering & Management)	18

MINUTES OF 1ST DEANS OF FACULTIES MEETING HELD ON 4.11.2015

Increase in Intake (2016-17)		
1	B.Arch.	40

DECISION: The members noted the courses already running in Department of Architecture, Giani Zail Singh Campus College of Engineering & Technology, Bathinda and they proposed to start new courses from 2016-17 session with change in nomenclature of degrees. The members further proposed an increase of 40 seats in B.Arch.

ITEM NO. 01.09-01.13: ALREADY OFFERED COURSES IN OTHER DEPARTEMENTS- FOR INFORMATION ONLY

S. No.	Courses	Intake
Department of Computer Applications		
1	MCA	60
2	MCA Lateral Entry	60
Department of Management		
1	MBA	60
Department of Chemistry		
1	M.Sc. (Chemistry)*	60
Department of Physics		
1	M.Sc. (Physics)#	60
Department of Mathematics		
1	M.Sc. (Mathematics)@	60

DECISIONS: The information was noted. The members further suggested that,

*Medicinal Chemistry and Material Science should be included as elective subjects in M. Sc. (Chemistry).

#Nanotechnology and Micro-electronics should be included as elective subjects in M. Sc. (Physics).

@ Operational Research and Statistics should be included as elective subjects in M. Sc. (Mathematics).

ITEM NO. 01.14: TO APPROVE THE PROPOSED DISCONTINUATION OF ADMISSIONS FROM 2016-17 IN PART TIME POST GRADUATE COURSES IN CONSTITUENT COLLEGES OF MRSSTU, BATHINDA

S. No.	Part Time M.Tech. Courses to be discontinued from 2016-17
1	M.Tech. (Computer Science & Engg.)
2	M.Tech. (Electronics & Communication Engg.)
3	M.Tech. (Production Engg.)
4	M.Tech. (Power Engg.)

MINUTES OF 1ST DEANS OF FACULTIES MEETING HELD ON 4.11.2015

5	M.Tech. (Textile Engg.)
6	M.Tech. (Structural Engg.)
7	M.Tech. (Environmental Sc. & Engg.)
8	M.Tech. (Construction Technology & Management)

DECISION: The members proposed to discontinue admission from 2016-17 session in Part Time Post Graduate Courses in Constituent Colleges of MRSSTU, Bathinda. The matter is placed for further consideration.

ITEM NO. 01.15-01-18: TO APPROVE THE NEW PROPOSED REGULAR UNDER GRADUATE COURSES FROM 2016-17 SESSION FOR VARIOUS PUNJAB INSTITUTES OF TECHNOLOGY.

ITEM NO. 01.15: PUNJAB INSTITUTE OF TECHNOLOGY, NANDGARH, DISTRICT BATHINDA

S.No.	Already offered Regular Courses	Intake
1	BBA (5-Year Integrated Course leading to MBA degree)	60
2	MBA	60
3	B.Com. (Professional)	60
4	M.Com.	60
Proposed Courses (2016-17)		
1	BCA	60
2	MCA	60
	BBA	60
Course to be discontinued from 2016-17		
1	BBA (5 -Year Integrated Course leading to MBA degree)	60

DECISION: The members noted BBA (5 -Year Integrated Course leading to MBA degree) Course already running in Punjab Institute of Technology, Nandgarh. They proposed to start new proposed Courses from 2016-17 session with change in nomenclature of degrees. The members also proposed to replace already running B.Com. (Professional) Course with B.Com. (Hons.). The matter is placed for further consideration.

ITEM NO. 01.16: PUNJAB INSTITUTE OF TECHNOLOGY, GTB GARH, DISTRICT MOGA

S.No.	Already offered Regular Courses	Intake
1	B.Tech. (Civil Engineering) LEET	60
2	B.Tech. (Electrical Engineering) LEET	60
3	B.Tech. (Mechanical Engineering) LEET	60
Proposed Courses (2016-17)		

MINUTES OF 1ST DEANS OF FACULTIES MEETING HELD ON 4.11.2015

1	B.Tech. (Civil Engineering)	60
2	B.Tech. (Electrical Engineering)	60
3	B.Tech. (Mechanical Engineering)	60
4	B.Tech. (Computer Sc. & Engineering)	60

DECISION: The members noted the already offered LEET Courses and proposed to discontinue admission in them from 2017-18 session. They proposed to start new Courses from 2016-17 session. The matter is placed for further consideration.

ITEM NO. 01.17: PUNJAB INSTITUTE OF TECHNOLOGY, MANSA

Proposed Course (2016-17) upon availability of funds		
1	B.Sc. (N.M.)	60
Courses to be discontinued		
1	B.Tech. (Civil Engineering) (6-Year Integrated Course leading to B.Tech. degree, starting from +1)	60
2	B.Tech. (Electrical Engineering) (6-Year Integrated Course leading to B.Tech. degree, starting from +1)	60
3	B.Tech. (Mechanical Engineering) (6-Year Integrated Course leading to B.Tech. degree, starting from +1)	60
4	B.Tech. (Electronics & Communication Engineering) (6-Year Integrated Course leading to B.Tech. degree, starting from +1)	60
5	B.Tech. (Computer Sc. & Engineering) (6-Year Integrated Course leading to B.Tech. degree, starting from +1)	60

DECISION: The members noted the already offered Courses and proposed to discontinue admission in them from 2016-17 session. They further proposed that new proposed Courses may be started w.e.f. 2016-17 session depending upon availability of funds. The matter is placed for further consideration.

ITEM NO. 01.18: PUNJAB INSTITUTE OF TECHNOLOGY, RAJPURA

S.No.	Already offered Regular Courses	Intake
1	M.Tech. (Computer Sc. & Engineering)	18
Proposed Courses (2016-17)		
1	M.Tech. (Electronics & Communication Engineering)	18
2	M.Tech. (Electrical Engineering)	18
3	B.Tech. (Electronics & Communication Engineering)	60

MINUTES OF 1ST DEANS OF FACULTIES MEETING HELD ON 4.11.2015

4	B.Tech. (Electrical Engineering)	60
5	B.Tech. (Mechanical Engineering)	60
6	B.Tech. (Civil Engineering)	60
7	BBA	60
8	BCA	60
Courses to be discontinued		
1	M.Tech. (ESDC)	18
2	B.Tech. (EEE) LEET	60

DECISION: The members noted the already running M.Tech. (Computer Sc. & Engineering) Course. They proposed that New proposed Courses may be started w.e.f. 2016-17 session. Further, they proposed that admission to the already running M.Tech. (ESDC) Course and B.Tech. (EEE) LEET Course may be discontinued w.e.f. 2016-17. The matter is placed for further consideration.

TO START THE NEW PROPOSED REGULAR UNDER GRADUATE PROFESSIONAL COURSES IN FUTURE FOR VARIOUS PITs IN MRSSTU, BATHINDA

S. No.	Proposed new Regular Courses	Intake
1	B.Sc. Hons. (Physics)	60
2	B.Sc. Hons. (Chemistry)	60
3	B.Sc. Hons. (Mathematics)	60

In addition to the other above proposals, the members proposed to start the above B.Sc. Hons. Courses in various PITs in future.

ITEM NO. 01.19: TO APPROVE THE NEW PROPOSED REGULAR POST GRADUATE & UNDER GRADUATE COURSES IN FUTURE FOR MAIN CAMPUS, MRSSTU, BATHINDA.

S. N.	Proposed courses	Intake
1	B. Tech (Biochemical Engg.)	60
2	B. Tech (Chemical Engg.)	60
3	B. Tech (Biomedical Instrumentation)	60
4	B. Tech (Biomedical Engg.)	60

DECISION: The members proposed to start the above new Courses in future. The matter is placed for further consideration.

ITEM NO. 01.20: TO APPROVE THE NEW PROPOSED REGULAR B.PHARM. & M.PHARM. COURSES IN FUTURE FOR DEPARTMENT OF PHARMACEUTICAL SCIENCES, MAIN CAMPUS, MRSSTU, BATHINDA

S. N.	Proposed courses	Intake
1	B. Pharm.	60
2	M.Pharm. (Pharmaceutics)	15
3.	M.Pharm. (Pharmacology)	15

DECISION: The members proposed to start B.Pharm., M.Pharm. (Pharmaceutics) & M.Pharm. (Pharmacology) in future. The matter is placed for further consideration.

ITEM NO. 01.21: TO APPROVE THE NEW PROPOSED REGULAR M.SC. (BIOTECHNOLOGY) COURSE IN FUTURE FOR DEPARTMENT OF EMERGING TECHNOLOGIES (BIOTECHNOLOGY), MAIN CAMPUS, MRSSTU, BATHINDA

S. N.	Proposed courses	Intake
1	M.Sc. (Biotechnology)	30

DECISION: The members proposed to start the above Course in future. The matter is placed for further consideration.

ITEM NO. 01.22: TO APPROVE THE NEW PROPOSED REGULAR POST GRADUATE & UNDER GRADUATE COURSE IN FUTURE FOR DEPARTMENT OF EMERGING TECHNOLOGIES (ENVIRONMENTAL SCIENCES), MAIN CAMPUS, MRSSTU, BATHINDA

S. N.	Proposed courses	Intake
1	B. Tech (Environmental Sciences & Engg.)	60

DECISION: The members proposed to start the above Course in future. The matter is placed for further consideration.

ITEM NO. 01.23: TO APPROVE THE NEW PROPOSED REGULAR POST GRADUATE & UNDER GRADUATE COURSES FROM 2016-17 FOR DEPARTMENT OF EMERGING TECHNOLOGIES (NANOTECHNOLOGY), MAIN CAMPUS, MRSSTU, BATHINDA

DECISION: The members proposed to defer the start of nanotechnology Courses. The matter is placed for further consideration.

ITEM NO. 01.24: TO APPROVE THE NEW PROPOSED REGULAR POST GRADUATE & UNDER GRADUATE COURSE IN FUTURE FOR DEPARTMENT OF AGRO-FOOD TECHNOLOGIES (FOOD TECHNOLOGY), MAIN CAMPUS, MRSSTU, BATHINDA

S. N.	Proposed courses	Intake
1	B. Tech (Food Science & Technology)	60

DECISION: The members proposed to start the above Course from 2016-17 session. The matter is placed for further consideration.

ITEM NO. 01.25: TO APPROVE THE NEW PROPOSED REGULAR POST GRADUATE & UNDER GRADUATE COURSES IN FUTURE FOR DEPARTMENT OF AGRO-FOOD TECHNOLOGIES (AGRICULTURE SCIENCES), MAIN CAMPUS, MRSSTU, BATHINDA

DECISION: The members proposed to defer the start of agricultural Courses. The matter is placed for further consideration.

TO APPROVE THE NEW PROPOSED REGULAR PHARMACY COURSES IN FUTURE

S. N.	Proposed new Regular Courses	Intake
1	MBA in Pharmaceutical Management	60
2	Skill Certification in Pharmaceutical Marketing & Entrepreneurship	30
3	Skill Certification in Pharmacovigilance & Clinical Trials	30
4	Skill Certification in Pharmaceutical Analysis & Quality Control	30
5	Skill Certification in Hospital Administration	30

In addition to the other above proposals, the members proposed to start the above courses in future.

**ITEM NO. 01.26-01-36: AGENDA RELATED TO COLLEGES AFFILIATED TO
MRSSTU, BATHINDA**

DECISION: The members proposed to leave it up to the affiliated colleges to take decision regarding start of new Courses, continuation of the already running Courses and to discontinue any Course. The matter is placed for further consideration.

**ITEM NO. 01.37: TO APPROVE THE PROPOSED Ph.D. REGULATIONS-2015,
MAHARAJA RANJIT SINGH STATE TECHNICAL UNIVERSITY,
BATHINDA**

DECISION: The members proposed the Ph.D. Regulations-2015 with changes. The matter is placed for further consideration please.

THE MEETING ENDED WITH A VOTE OF THANKS TO THE CHAIR.

**Dean Academic Affairs,
MRSSTU, BATHINDA**

HON'BLE VICE CHANCELLOR

PROPOSED MRSSTU CHOICE BASED CREDIT SYSTEM-2016

1. PREAMBLE:

Maharaja Ranjit Singh State Technical University, Bathinda (MRSSTU) has been established as an affiliating University vide Punjab Act No. 5 of 2015 notified through Punjab Government Gazette-Extraordinary (Regd. No. CHD/0092/2015-2017) notification No. 5-Leg./2015 dated 12th February 2015.

Current evaluation system based on percentage of marks secured in the examinations in MRSSTU, Bathinda will be replaced with grading system called '**CHOICE BASED CREDIT SYSTEM**' (CBCS) w.e.f. academic session 2016-17. This credit system of continuous evaluation is as per guidelines of UGC and pertains to relative evaluation of the students performance instead of absolute evaluation. The student will have the flexibility to pick up open elective Courses out of a pool of Courses available across different departments, suitable to his/her taste, requirement and capability. He/she will have the option to drop a Course after registering for it at a later stage, if permitted under the rules. The performance of a student in a Course is measured in terms of Credit Points earned by him/her in that course. It is proposed to implement this CBCS for various Programmes – B.Tech., B.Arch., M.Tech., M.Sc., MBA, etc., being offered by MRSSTU in its Constituent/Affiliated Colleges. This Credit System, after necessary amendments, if any, and there after the approval of the competent authority, will be known as **MRSSTU CHOICE BASED CREDIT SYSTEM-2016**. The CBCS facilitates transfer of credits earned by a student across different Departments/Centres of other recognized/accredited universities or institutions of higher education in India and abroad. In Relative Grading System, the following two acute circumstances normally bothering the students are nullified.

1. When majority of students score very high marks because, either the question paper is easy or the evaluator is very lenient.
2. When majority of students score very low marks because, either the question paper is tough or the evaluator is very strict.

This Credit System will be implemented for students of 2016 batch and onwards. If the total number of students are equal to or less than 30 in a Course in MRSSTU, then Absolute Grading System will be followed. On the other hand, if total number of students are more than 30 in a Course in MRSSTU, then Relative Grading System will be followed. In Relative Grading System, grades will be awarded according to performance of students relative to their top peers in the same Course.

2. DEFINITIONS OF KEY TERMS:

- a) **MRSSTU:** Maharaja Ranjit Singh State Technical University, Bathinda-151001.
- b) **VICE CHANCELLOR:** Vice Chancellor of MRSSTU.
- c) **DEAN ACADEMIC AFFAIRS:** Dean Academic Affairs of MRSSTU.
- d) **PROGRAMME:** Two/Three/Four/Five Year UG/PG Degree as applicable. It also includes Ph.D. Degree.

PROPOSED MRSSTU CHOICE BASED CREDIT SYSTEM-2016

- e) **BRANCH OF A PROGRAMME:** For example: Mechanical Engineering, Civil Engineering are the branches of B.Tech. Programme.
- f) **PROGRAMME CURRICULUM:** Each Programme Curriculum contains, prescribed Course Structure known as Study Scheme. The Study Scheme consists of Courses grouped into various types, viz. Foundation Courses, Core Courses, Departmental Electives, Open Electives and Professional Skills.
- g) **COURSE:** Any subject (Theory/Practical) or a Project/Training/Field Work/Thesis/Seminars of the Curriculum of a Programme. Different Courses may have different credits allotted to them.
- h) **COURSE SYLLABUS:** A Course Syllabus contains,
- Contents of study
 - Course Code
 - Course Nomenclature
 - L-T-P-C (Number of Hours/Week for: Lectures, Tutorials, Practicals, Credits)
 - Course Prerequisites (if any)
 - Course Objectives
 - Expected Outcomes
 - Four Units in a Theory Course and the number of Lectures allotted to each unit
 - Suggested Text and Reference Books
 - Date of approval of Study Scheme by the Academic Council.
- i) **BOARD OF STUDIES (BOS) OF A PROGRAMME:** The BOS shall prepare and recommend the Curriculum of the Programme and submit it to Academic Council for approval. The term of BOS shall be for 2 years.
- j) **PROGRAMME COORDINATOR:** Chairperson BOS will be Programme Coordinator. He/she is deemed to own the Curriculum of the Programme Branch.
- i) **COURSE COORDINATOR:** The Chairperson BOS shall nominate a faculty member as Course Coordinator for each Course of the Programmes under its umbrella & being taught in the University/affiliated/constituent colleges. He/she should be teaching/have taught that Course. Course Coordinator will be heading a team of five faculty members across all Affiliated/Constituent colleges. The Committee is deemed to own that Course of the Programme. Its Chairperson will be Course Coordinator. It will ensure that the same quantum of Course Content is covered in each College before each midterm test. He/she will also prepare Assignment/Tutorial Sheets and provide a copy of it to every faculty member teaching that Course. This Committee will have its term for 2 years.
- j) **END SEMESTER UNIVERSITY EXAMINATIONS:** External examinations conducted by MRSSTU at the end of a semester.
- k) **COURSE PLAN:** Each faculty member will prepare a plan sheet in which he/she will record the topics to be covered/experiments to be performed in each lecture /tutorial/ lab, mode of delivery of lectures/tutorials and reference material to be used.

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- l) **LETTER GRADES:** Performance of a student in a Course is measured in terms of Letter Grades. Every Letter Grade has been given a numerical weight called Grade Point on a scale of 10 points.
- m) **COURSE CREDITS:** A class room Lecture/Tutorial of 60 minute duration per week is equivalent to one credit. A laboratory session/Practical or Field work/Project or a combination of these of two hours per week is equivalent to one credit. Number of credits allotted to a Training/Project/Field Work/Thesis/Seminar Course will be decided by the concerned BOS.
- n) **CREDIT POINTS:** Performance of a student in a Course is measured in terms of Credit Points earned by the student in that Course.
Credit Point earned in a Course = Grade Point earned in that Course x Credits allotted to that Course.
- o) **SEMESTER POINT GRADE AVERAGE (SGPA):** Performance of a student in a Semester is measured in terms of Semester Grade Point Average (SGPA), rounded up to two decimal places.
$$SGPA = \frac{\text{Total Credit Points earned by a student in a Semester}}{\text{Total Credits for the Courses registered by the student in that Semester}}$$
- p) **CUMMULATIVE GRADE POINT AVERAGE (CGPA):** Overall cumulative performance of a student over all Semesters is measured in terms of 'Cumulative Grade Point Average' (CGPA), rounded up to two decimal places.
$$CGPA = \frac{\text{Total Credit Points earned by a student in all Semesters in a Programme}}{\text{Total Credits for the Courses registered by the student in that Programme}}$$
- q) **GRADE CARD:** After the end of every Semester, a student is issued a Grade Card depicting details of the Courses registered by him/her, which includes Course Titles, Course Codes, number of Credits allotted to that Course, Grades, SGPA and CGPA earned by the student up to end of that Semester.
- r) **INTERNAL ASSESSMENT:** It is continuous evaluation of the performance a student in a Course during a Semester in 2 midterm sessional tests, quizzes, assignments, projects, attendance, seminars and discussions, etc.
- s) **L-T-P-C OF A COURSE:** 2-1-2-4 means that Course consists of two Lecture Hours, one Tutorial Hour, two Laboratory Hours per week and the Course has been allotted 4 Credits. Number of Laboratory Hours per week to be allotted to any Laboratory Course will be decided by the concerned BOS.
- t) **COURSE FLOWCHART:** Pictorial representation to show how various Courses (Fundamental, Core, Departmental Elective, Open Elective) are connected through pre-requisites.
- u) **INTERPRETATION COMMITTEE:** If any doubt/conflict arises in the interpretation of any of the Academic Regulations, the matter will be referred by the Vice Chancellor to the Interpretation Committee for its interpretation. Final decision lies with the Vice Chancellor.

PROPOSED MRSSTU CHOICE BASED CREDIT SYSTEM-2016

- v) **AWARD OF DEGREE:** A student will be awarded Degree after the end of the Programme when he/she fulfils the requirements to earn that Degree.
3. **DURATION OF A PROGRAMME:**
A Programme of N academic year duration is divided into 2N semesters. Each semester consists of 15-18 weeks of academic work equivalent to 90 actual teaching days. Odd semester is scheduled from July to December and Even semester from January to June. Maximum duration allowed for a student to complete his/her Degree is N+2 academic years, where N stands for the minimum academic years required to earn the Degree.
4. **END SEMESTER UNIVERSITY EXAMINATIONS:**
- a) **GENERAL:**
- (i) End Semester University examinations shall be held by MRSSTU as per Date Sheet announced by the latter on its website and the Study Scheme of the Programme.
 - (ii) No candidate is allowed to appear in the University examination without showing the Roll Number Slip. If a student has lost his/her Roll Number Slip, he/she will be allowed to sit in the examination by depositing a fine decided by the University to the Centre Superintendent after verification of his/her identity with official stamp by Controller of Examination of the College/Institute, Principal/Director of the College/Institute or Head of the Department of the concerned student.
 - (iii) The College/Institute office shall display on its Notice Board, the schedule of examination/date sheet etc. as soon as it is received from the University. The University will notify the date sheet of the End Semester examinations, preferably fifteen days before the start of the examinations.
 - (iv) The medium of instruction and examination shall be English.
- b) **ELIGIBILITY CRITERIA TO APPEAR IN END SEMESTER UNIVERSITY EXAMINATION OF A COURSE:** The student must have registered for that Course and has attended at least 75% of Lectures in that Course for becoming eligible to appear in the End Semester University Examination. He/she should not have any dues pending towards him/her.
5. **EVALUATION SYSTEM - CHOICE BASED CREDIT SYSTEM:**
- a) **UG DEGREE PROGRAMME STRUCTURE:** Each UG Degree Programme consists of Fundamental (F), Core (C), Departmental Electives (E), Open Elective (O), Professional Skills (S) and Training/Project Work Courses.
 - b) **PG DEGREE PROGRAMME STRUCTURE:** Each PG Degree Programme consists of Core (C), Departmental Electives (E), Open Elective (O), Project Work/Thesis and Professional Skills (S) Courses.
 - c) **CORE COURSES (C):** Core Courses comprise of Theory/Practical subjects, projects/thesis, seminars, visits, discussions, studio and Field work, etc. These Courses include Courses of basic sciences and humanities. Around 65% Credits of the Programme are assigned to Department Specific Courses and about 15% Credits

PROPOSED MRSSTU CHOICE BASED CREDIT SYSTEM-2016

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- d) of the Programme are allotted to Courses from the arena of basic sciences and humanities, wherever applicable. These are compulsory Courses.
- e) **DEPARTMENTAL ELECTIVES (E):** These Courses are offered to a student by his/her own department. He/she has to choose any of these Courses out of the basket of Courses offered by his/her department. Around 20% of the total Credits of the Programme are earmarked for these Courses.
- f) **OPEN ELECTIVES (O):** These Courses are offered by a department to students of other departments. This provides resilience to the technical education system and generates interest for learning among the students. He/she has to choose any of these Courses out of the pool of Courses offered by the other departments. Around 8% of the total Credits of the Programme are earmarked for these Courses.
- g) **PROFESSIONAL SKILLS COURSES (S):**
One Credit Course of Professional Skills at UG level may be offered in various semesters to build up the aptitude of the students progressively, which includes,
(i) Human Values,
(ii) Written and Oral Communication Skills,
(iii) Personality Development.
Contents for the above will be different for different semesters.
One Credit Course for technical writing, presentation and personality development in various semesters and evaluation based on midterm papers and presentation of 10 minutes may be added at PG level.
- h) Each Semester consists of Theory Courses and Lab/Seminar/Project/Training/Thesis Courses as given in illustration in Table-I.
- i) 1st academic year of Four Year Degree Programme will have 50 Credits.
- j) Total Credits in a Programme will be $N \times 45$, where N stands for the minimum of academic years required to earn the Degree.
- k) F, C, E Courses are of 3L+1T type and are of 4 Credits each. O Courses are of 3L type and are of 3 Credits each. S Courses are of 1P type and are of 1 Credit each.
- l) Credits for Lab/Seminar/Project/Training/Thesis Courses etc. are to be decided by concerned BOS. BOS may deviate from the distribution shown in Table-I for fine tuning/special reasons.
- m) A Lab/Workshop/Drawing/Studio Course may be of more than two hrs. duration.
- n) In PG Degree Programmes where thesis work is not feasible, BOS of that Programme may add more Core Courses in the Curriculum.
6. **GENERAL GUIDELINES FOR CURRICULUM OF A FOUR YEAR BACHELOR DEGREE PROGRAMME:** An illustration is given below in Table-I for distribution of various Courses of a Four Year Bachelor Degree Programme. BOS may redistribute these subjects.
- a) Training-I: In house 4-week training during summer vacation after 2nd sem.
- b) Training-II: In house/Ind. 6-week training during summer vacation after 4th sem.
- c) Training-III: In house/Ind. 8-week training during summer vacation after 6th sem.

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Sem.	Fundamental (F)		Core (C)		Deptt. Elective (E)	Open Elective (O)	Profess. Skills (S)	Training/Project/Thesis	Total Contact Hrs.	Total Credits
	Th.	Lab.	Th.	Lab.						
I	5 (20)	4 (5)	---	---	---	---	---	---	30	25
II	5 (20)	3 (5)	---	---	---	---	---	---	30	25
III	---	---	4 (16)	2 (2)	1 (2)	---	1 (1)	Training-I (2)	25	23
IV	---	---	4 (16)	2 (2)	1 (3)	---	1 (1)	---	24	22
V	---	---	3 (12)	2 (2)	1 (2)	1 (3)	1 (1)	Training-II (3)	25	23
VI	---	---	2 (8)	2 (2)	2 (8)	1 (3)	1 (1)	---	24	22
VII	---	---	2 (8)	2 (2)	1 (4)	1 (3)	---	Training-III (4) + Project-I (4)	19	25
VIII	---	---	1 (4)	1 (1)	1 (4)	---	---	Project-II (6)	10	15
Total Credits										180

- 7. GENERAL GUIDELINES FOR CURRICULUM OF A THREE/FIVE YEAR BACHELOR DEGREE PROGRAMME:** For Three Year Bachelor Degree Programmes: BBA, B.Com., BCA, etc. and for Five Year Bachelor Degree Programme: B.Arch., the concerned BOS may decide Courses of its own by following the concept of Fundamental (F), Core (C), Departmental Electives (E), Open Elective (O), Professional skills (S) and Training/Project Work/Seminar Courses, as illustrated in the Table-I.
- 8. GENERAL GUIDELINES FOR CURRICULUM OF M.TECH. & OTHER TWO YEAR PG DEGREE PROGRAMMES WITH THESIS:** An illustration is given below in Table-II for distribution of various Courses of M.Tech. & other Two Year Degree Programmes with thesis. BOS may redistribute these subjects.

Sem.	Fundamental (F)		Core (C)		Deptt. Elective (E)	Open Elective (O)	Professional Skills (S)	Training/Project/Thesis	Total Contact Hrs.	Total Credits
	Th.	Lab.	Th.	Lab.						
I	---	---	3 (12)	1 (2)	2 (8)	---	---	---	26	22
II	---	---	2 (8)	1 (2)	2 (8)	1 (4)	---	---	26	22
III	---	---	---	---	1 (4)	1 (4)	1 (4)	Project + seminar (10+4)	12	26
IV	---	---	---	---	---	---	---	Thesis (20)	---	20
Total Credits										90

PROPOSED MRSSTU CHOICE BASED CREDIT SYSTEM-2016

9. **GENERAL GUIDELINES FOR CURRICULUM OF A TWO YEAR M.Sc. DEGREE PROGRAMME:** An illustration is given below in Table-III for distribution of various Courses of a Two Year M.Sc. Degree Programme. BOS may redistribute these subjects.

- a) One Course of One-Credit will be offered during each of 2nd and 3rd semesters. In this Course, the student will write a term paper in a topic from the subjects being taught in that semester and give a 10-minute presentation through power point slides in the class.
- b) For Six-Credit Project Work, the student is to carry out literature survey on the topic assigned by his/her Project Supervisor. The student has to carry out survey of 15-20 research papers, out of which at least 10 should be of international repute. The student is to write a review paper and present it to his/her Project Supervisor in the form of soft and hard copy. He/she will also give a 15-minute presentation through power point slides to the committee of 3 teachers as decided by the Head of the Department including his/her Project Supervisor. Evaluation is to be done as per the criteria to be decided later on.
- c) There will be Open Elective-I & Open Elective-II of three Credits each.

Sem.	Fundamental (F)		Core (C)		Deptt. Elective (E)	Open Elective (O)	Soft Skills (S)	Training/ Project/ Thesis	Total Contact Hrs.	Total Credits
	Th.	Lab.	Th.	Lab.						
I	---	---	3 (12)	2 (4)	1 (4)	1 (3)	---	---	27	23
II	---	---	3 (12)	1 (2)	2 (8)	---	1 (1)	---	25	23
III	---	---	3 (12)	2 (4)	1 (4)	1 (3)	1 (1)	---	28	24
IV	---	---	2 (8)	1 (2)	---	---	---	Project + Seminar (10)	22	20
Total Credits										90

10. REGISTRATION FOR COURSES:

- a) Before the start of registration for Courses by students for a semester, every department of each college will announce its Departmental and Open Electives being offered, on its website.
- b) Registration dates will be announced by University on its website.
- c) Before a student can register for a particular Course, he/she should have fulfilled conditions of pre-requisite (if applicable) attached to that Course.
- d) If more than 80 students register for a Course, then class will be split into two sections.
- e) Online registration procedure will be adopted.

PROPOSED MRSSTU CHOICE BASED CREDIT SYSTEM-2016

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- f) Departmental/Open Elective Course will be run in a college, only if minimum 15 students have registered for this Course.
 - g) Every student has to register for minimum 15 Credits and maximum 36 Credits in a semester.
 - h) If a student wants to drop any Course registered by him/her for a semester, he/she may do so before the start of first sessional test in that semester provided he/she fulfills the condition specified in subsection 10 (f).
 - i) Lab Courses, seminars, projects etc. may be added in a semester by BOS as per need of the Courses being taught in that semester.
 - j) Each midterm internal assessment test will be of 1.5 hrs duration.
 - k) Each End Term University Examination will be of three hrs or as specified.
- 11. ELIGIBILITY CRITERIA FOR PROMOTION TO NEXT ACADEMIC YEAR:**
- a) A student is required to maintain at least 4.5 CGPA at the end of each academic year, failing which he/she will be declared failed in that academic year. He/she will have to seek readmission to the odd semester of that academic year.
 - b) A student has to earn $\geq 30\%$ marks in a Course to qualify it, failing which he/she will be declared failed in that Course. A failed student has to repeat the Course by appearing in continuous evaluation tests, quizzes etc. during the semester and End Semester University Examination.
 - c) If a student fails in Departmental Elective/Open Elective Course, he/she has the option to repeat the same Course by appearing in continuous evaluation tests, quizzes etc. during the semester and End Semester University Examination or choose another Departmental Elective/Open Elective Course.
 - d) In a Programme of more than 2 years, a student can register for Courses of 5th semester only after clearing his/her all Courses of 1st semester, even if he/she maintains at least CGPA of 4.5 at end of 2nd academic year. A student can register for Courses of 6th semester only after clearing his/her all Courses of 2nd semester.
 - e) Minimum 4.5 CGPA will be required to qualify the Programme.
- 12. GRADING SYSTEM:**
- At the end of the semester, for every Course registered by a student, he/she is assigned a Letter Grade (Table-IV) based on his/her overall performance based on his/her continuous evaluation during the semester and End Semester University Examinations. over the semester in all the assessments carried out in that Course.
- a) Relative grading system for a Course will be followed, when the total number of students in all colleges registering for a that Course are more than 30. Otherwise, follow absolute Grading System.
 - b) $CGPA \times 9.2 = \% \text{ age marks.}$
 - c) For every Course, a student is required to have at least 75% attendance to appear in the End Semester University Examination.

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Letter Grade/ Performance Grade given in a Course	Grade Point earned	Academic Performance in a Course	Added constraint for award of the Grade
A ⁺	10	Outstanding	Marks >80%
A	9	Excellent	Based on conglomerates formed during distribution of marks with median taken as 51
B ⁺	8	Very Good	
B	7	Good	
C	6	Above Average	
D	5	Average	
E	4	Pass	≥ 30% Marks
F	0	Fail	Student will get F in a Course when he/she earns <30% Marks
R	0	Detained on attendance basis	Detained on attendance basis & is required to repeat Course by attending classes when the Course is offered

13. MARKS DISTRIBUTION FOR THEORY COURSE:

Internal Assessment: Maximum Marks: 40
End Semester External University Examination: Maximum Marks: 60

14. MARKS DISTRIBUTION FOR LAB COURSE:

Internal Assessment: Maximum Marks: 60
End Semester Lab. Course External Examination: Maximum Marks: 40

15. EVALUATION FOR LAB COURSES: Evaluation of performance of a student in a semester is as given below in Table-V,

Internal Assessment (internal)		End Semester Univ. Examination	
Component	Marks	Component	Marks
Record Marks based on continuous assessment of Lab/practical work, considering regularity and timely submission of lab record (i.e. practical note book)	30	Written Quiz of 10 questions set by MRSSTU	20
Viva Voce/Quiz/Assignments/Mini Project	30	Practical performed by the student and recorded on the answer sheet.	20

PROPOSED MRSSTU MINIMUM ELIGIBILITY CRITERIA FOR 2016-17 BATCH ADMISSIONS

S.No.	Programme	Duration of Programme	Minimum Eligibility Criteria for 2016-17 Batch Admissions	Mode of Admission
01.	B.Tech. 1 st Yr.	4 Yrs./ 8 Sems	<p>FOR AFFILIATED COLLEGES</p> <p>Candidate must have passed 10+2 Examination from a Board recognized or established by Central/State Government, through a legislation with Physics and Mathematics as compulsory subjects along with any one of the following subjects,</p> <p>a) Chemistry b) Biotechnology c) Computer Science, d) Biology</p> <p>Or</p> <p>Candidate must have passed Three Year Diploma in any Engineering Trade from Punjab State Board of Technical Education & Industrial Training, Chandigarh or any such examination from any other recognized State Board of Technical Education.</p>	<p>FOR AFFILIATED COLLEGES</p> <p>1. Online Counselling based on JEE RANK (Main) merit. 2. Manual Counselling based on Three-Year Diploma merit after exhausting JEE (Main) Rank Candidates. 3. Manual Counselling based on 10+2 Merit after exhausting JEE (Main) Rank & Diploma Candidates.</p>

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			FOR MRSSTU & ITS CONSTITUENT COLLEGES	FOR MRSSTU & ITS CONSTITUENT COLLEGES
02.	B.Tech. (Bio-technology) 1 st Yr.	4 Yrs/ 8 Sems.	<p>Same as above.</p> <p>Candidate must have passed 10+2 Examination from a Board recognized or established by Central/State Government through a legislation with Physics and Chemistry as compulsory subjects along with any one of the following subjects, a) Mathematics b) Biotechnology c) Computer Science, d) Biology</p> <p>Or</p> <p>Candidate must have passed Three Year Diploma Examination in any Engineering Trade from Punjab State Board of Technical Education & Industrial Training, Chandigarh or any such examination from any other</p>	<p>Online Counselling based on JEE Marks (Main) merit with at least 18 marks for General & 12 marks for SC/ST category.</p> <p>1. Online Counselling based on 10+2 examination marks merit. 2. Manual Counselling for left over seats after Online Counselling.</p>

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03.	B.Tech. 2 nd Yr. (Lateral Entry)	3 Yrs./ 6 Sems.	recognized State Board of Technical Education.		
<p align="center"><u>FOR AFFILIATED COLLEGES</u></p> <p>Candidate must have passed Three Year Diploma Examination from an AICTE approved institution and have obtained at least 45% marks (40% marks in case of SC/ST category) in any branch of Engineering/Technology.</p>					<p align="center"><u>FOR AFFILIATED COLLEGES</u></p> <p>1. Online Counselling based on marks merit in diploma. 2. Manual Counselling for the left over seats after Online Counselling.</p>
<p align="center"><u>FOR MRSSTU & ITS CONSTITUENT COLLEGES</u></p> <p>Candidate must have passed Three Year Diploma Examination from an AICTE approved institution and have obtained at least 50% marks (45% marks in case of SC/ST category) in any branch of Engineering/Technology.</p>					<p align="center"><u>FOR MRSSTU & ITS CONSTITUENT COLLEGES</u></p> <p>Same as above.</p>
04.	B.Arch.	5 Yrs. / 10 Sems.	Candidate must have passed 10+2 Examination from a Board recognized or established by Central/State Government through a legislation &	<p>1. Online Counselling. 2. Admissions shall be based on National Aptitude Test in Architecture (NATA) conducted by the Council of Architecture</p>	

PROPOSED MRSSTU MINIMUM ELIGIBILITY CRITERIA FOR 2016-17 BATCH ADMISSIONS

			<p>has obtained at least 50% marks in Mathematics.</p> <p>Or</p> <p>Three Year Diploma Examination (any stream) from any Board of Technical Education, recognized by Central/ State Government through a legislation & has obtained at least 50% marks.</p> <p>Or</p> <p>International Baccalaureate Diploma Examination, after 10 years of schooling, with at least 50% marks in aggregate with Mathematics.</p>	<p>with marks secured in the qualifying examination in the ratio of 50:50.</p> <p>3. Manual Counselling for the left over seats after Online Counselling.</p>
05.	B.Pharm. 1 st Yr.	4 Yrs./ 8 Sems.	<p>FOR AFFILIATED COLLEGES</p> <p>Candidates must have passed 10+2 Examination from a Board recognized or established by Central/State Government through a legislation with Physics and Chemistry as compulsory subjects along with any one of Mathematics/Computer Science/Biotechnology/Biology subjects.</p>	<p>FOR AFFILIATED COLLEGES</p> <p>1. Online Counselling based on 10+2 examination marks merit.</p> <p>2. Manual Counselling for left over seats after Online Counselling.</p>

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			<p>Or</p> <p>Candidate must have passed Three Year Diploma Examination in Pharmacy from an institute affiliated to Punjab State Board of Technical Education & Industrial Training/ any University recognized by UGC or any State Board of Technical Education provided that the Diploma and the institute are duly approved by PCI/AICTE.</p>	
		<p><u>FOR MRSSTU & ITS CONSTITUENT COLLEGES</u></p> <p>Candidates must have passed 10+2 Examination from a Board recognized or established by Central/State Government through a legislation with atleast 50% marks (45% marks in case of SC/ST category) with Physics and Chemistry along with any one of Mathematics/Computer Science/Biotechnology/Biology subjects.</p>	<p><u>FOR MRSSTU & ITS CONSTITUENT COLLEGES</u></p> <p>Same as above.</p>	

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06.	B. Pharm. 2 nd Yr. (Lateral Entry)	3 Yrs/ 6 Sems.	<p>Or</p> <p>Candidate must have passed Three Year Diploma Examination in Pharmacy (approved by PCI/AICTE) from any State Board of Technical Education & Industrial Training or any University with at least 50% marks (45% marks in case of SC/ST category).</p>	<p>1. Online Counselling based on marks in diploma.</p> <p>2. Manual Counselling for the left over seats after Online Counselling.</p>
07.	Pharm D.	6 Yrs / 12 Sems.	<p>Candidate must have passed Three Year Diploma Examination in Pharmacy (approved by PCI/AICTE) from any State Board of Technical Education & Industrial Training or any University with atleast 45% marks (40% marks in case of SC/ST category).</p> <p>Or</p> <p>Candidate must have passed 10+2 Examination from a board recognized or established by Central/State Government through a legislation with Physics and Chemistry along with Mathematics or Biology.</p>	<p>1. Online Counselling based on 10+2 examination marks.</p> <p>2. Manual Counselling for left over seats after Online Counselling.</p>

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08.	BBA/BCA/ B.Sc. (Information Tech.)/ B.Sc. (Airline Tourism & Hotel Management)/ B.Sc. (Fashion Tech.)/ B.Sc. (Fashion Design)	3 Yrs / 6 Sems.	Candidate must have passed D. Pharm. Examination from an institution approved by Pharmacy Council of India u/s 12 of The Pharmacy Act. Candidate must have passed 10+2 Examination from any Board recognized or established by Central/State Government through a legislation.	1. Online Counselling based on 10+2 examination marks. 2. Manual Counselling for left over seats after Online Counselling.
09.	B.Sc. (Agriculture)	4 Yrs / 8 Sems.	Candidate must have passed 10+2 or equivalent Examination in Science/ Agriculture with Physics, Chemistry and Mathematics/ Biology/ Agriculture with at least 50% marks in aggregate from any Board recognized or established by Central/State Government through a legislation.	1. Online Counselling based on 10+2 examination marks. 2. Manual Counselling for left over seats after online Counselling.
10.	B.Sc.	3 Yrs / 6 Sems.	Candidate must have passed 10+2 Examination from a Board recognized	1. Online Counselling based on 10+2 examination marks.

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	(Medical Lab Sciences)		or established by Central/State Government through a legislation with Physics and Chemistry along with Mathematics or Biology . Or Two Year Diploma Examination in Pharmacy/Medical Lab Technology after 10+2 recognized by any State Board.	2. Manual Counselling for left over seats after Online Counselling.
11.	B.Sc. (Bio-technology)	3 Yrs / 6 Sems.	Candidate must have passed 10+2 Examination from a Board recognized or established by Central/State Government through a legislation with Physics and Chemistry along with Mathematics or Biology .	1. Online Counselling based on 10+2 examination marks. 2. Manual Counselling for left over seats after Online Counselling.
12.	B.Sc. (Computer Science)	3 Yrs / 6 Sems.	Candidate must have passed 10+2 Examination in Non-Medical or its equivalent examination conducted from a Board recognized or established by Central/State Government through a legislation.	1. Online Counselling based on 10+2 examination marks. 2. Manual Counselling for left over seats after Online Counselling.
13.	Bachelor of Hotel Management &	4 Yrs / 8 Sems.	Candidate must have passed the 10+2 Examination or its equivalent with at least 45% marks (40% marks in case of	1. Online Counselling based on 10+2 examination marks.

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	Catering Technology		SC/ST category) from a Board recognized or established by Central/State Government through a legislation.	2. Manual counselling for left over seats after Online Counselling.
14.	B.Com. (Hons.)	3 Yrs / 6 Sems.	<p>Candidate must have passed 10+2 Examination in Non-Medical or its equivalent examination conducted from a Board recognized or established by Central/State Government through a legislation in case of commerce students.</p> <p>or</p> <p>40% marks in 10+2 Examination with any two of the following subjects</p> <p>a. Accountancy b. Business Studies c. Economics d. Mathematics e. Office Management and Secretarial Practice. f. Principle and Practice of Insurance.</p>	<p>1. Online Counselling based on 10+2 examination marks.</p> <p>2. Manual Counselling for left over seats after Online Counselling.</p>

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			g. Tax Procedure and Practice.	
15.	M.Com.	2 Yrs / 4 Sems.	Candidate with minimum Three Year Bachelor Degree in Commerce/ Management/Business Administration from any University recognized by UGC, with at least 50% marks (45% marks in case of SC/ST category) in qualifying examination. Weightage of 10% of marks obtained will be given to candidates with Hons Degree.	<ol style="list-style-type: none"> 1. Online Counselling based on merit in qualifying examination 2. Manual Counselling for left over seats after Online Counselling.
16.	MBA	2 Yrs / 4 Sems.	Candidate with minimum Three Year Bachelor Degree in any discipline from a University recognized by the UGC, with at least 50% marks (45% marks in case of SC/ST category) in qualifying examination. Preference will be given to candidates with valid rank in CMAT.	<ol style="list-style-type: none"> 1. Online Counselling based on merit in qualifying examination 2. Manual Counselling for left over seats after Online Counselling.
17.	MCA	3 Yrs / 6 Sems.	Candidate with minimum Three Year Bachelor Degree in any discipline from a University recognized by the UGC, with Mathematics/Statistics /Business Mathematics/ Business Statistics/ Quantitative Techniques as one of the subjects either at 10+2 or at Bachelor	<ol style="list-style-type: none"> 1. Online Counselling based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.

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			level, with at least 50% marks (45% marks in case of SC/ST category) in qualifying examination. Or Have passed BCA Course of minimum three year duration from any University recognized by UGC, with at least 50% marks (45% marks in case of SC/ST category) in qualifying examination.	
18.	Post Graduate Diploma in Computer Applications	1 Yr. / 2 Sems.	Candidate with minimum Three Year Bachelor Degree from a University recognized by the UGC, in any discipline	1. Online Counselling based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.
19.	M.Sc. (Information Technology)	2 Yrs / 4 Sems.	Candidate with minimum Three Year Bachelor Degree in any discipline from a University recognized by the UGC, with Mathematics/Statistics /Business Mathematics/ Business Statistics/ Quantitative Techniques as one of the subjects either at 10+2 or at Bachelor level. Or PGDCA/BCA/B.Sc.(IT)	1. Online Counselling based on merit in qualifying examination 2. Manual Counselling for left over seats after Online Counselling.

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20.	M.Sc. (Airline Tourism & Hotel Management)	2 Yrs / 4 Sems.	Candidate with any Bachelor Degree recognized by UGC.	1. Online Counselling based on merit in qualifying examination 2. Manual Counselling for left over seats after Online Counselling.
21.	M.Sc. (Fashion Technology)	2 Yrs / 4 Sems.	Candidate with B.Sc. (Fashion Technology) Degree recognized by UGC.	1. Online Counselling based on merit in qualifying examination 2. Manual Counselling for left over seats after Online Counselling.
22.	M.Sc. (Bio-technology)	2 Yrs / 4 Sems.	Candidate with Bachelor Degree in Science (medical/non-medical)/ Agriculture/Pharmacy/ Veterinary/Nursing recognized by UGC with minimum 50% marks.	1. Online Counselling based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.
23.	M.Sc. (Medical Lab. Technology)	2 Yrs / 4 Sems.	Candidate with Bachelor Degree in Medical Lab Technology recognized by UGC.	1. Online Counselling based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.
24.	M.Sc. (Environmental Science)	2 Yrs / 4 Sems.	Candidate with B.Sc. Degree (medical/non-medical) recognized by UGC having at least 50% marks.	1. Online Counselling based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.
25.	M.Sc.	2 Yrs / 4 Sems.	a) Candidate must have Passed B.Sc. from a University approved by UGC with Chemistry/Physics as	1. Online Counselling based on merit in qualifying examination.

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	(Physics/ Chemistry)		<p>one of the subjects in which admission in M.Sc. is sought and</p> <p>b) He/she must have studied that subject for minimum two years in B.Sc. and have secured minimum 50% marks in Physics/Chemistry as applicable (45% marks for SC/ST category).</p>	<p>2. Manual Counselling for left over seats after Online Counselling.</p>
26.	M.Sc. (Environmental Chemistry)	2 Yrs / 4 Sems.	<p>a) Candidate must have Passed B.Sc. from a University approved by UGC with Chemistry.</p> <p>b) He/she must have studied that subject for minimum two years in B.Sc. and have secured minimum 50% marks in Chemistry (45% marks for SC/ST category).</p>	<p>1. Online Counselling based on merit in qualifying examination.</p> <p>2. Manual Counselling for left over seats after Online Counselling.</p>
27.	M.Sc. (Mathematics)	2 Yrs / 4 Sems	<p>a) Candidate must have Passed B.Sc. (Non-medical)/B.A. from a University approved by UGC with Mathematics as one of subjects &</p> <p>b) He/she must have studied Mathematics for minimum two years in B.Sc. and have secured minimum 50% Marks in</p>	<p>1. Online based on merit in qualifying examination.</p> <p>2. Manual Counselling for left over seats after Online Counselling.</p>

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			Mathematics (45% marks in case of SC/ST category).	
28.	M.Pharm.	2 Yrs / 4 Sems	Candidate with regular B.Pharm. Degree from any University recognized by UGC or its equivalent with at least 55% marks (50% marks in case of SC/ST category).	1. Online Counselling based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.
29.	M.Arch. (Building Engineering & Management)	2 Yrs / 4 Sems	B.E./B.Tech. in Civil/B.Arch. with minimum 50% marks in qualifying examination.	1. Online Counselling based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.
30.	MBA in Pharmaceutical Management	2 Yrs / 4 Sems	Candidate must have passed Bachelor Degree in any discipline from a University recognized by the UGC, with preference to B.Pharm.	1. Online Counselling based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.
31.	Skill Certification in Pharmaceutical Marketing & Entrepreneurship		B.Pharm./BBA/B.Sc./ B.Com. (with preference to B.Pharm.)	1. Online Counselling based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.
32.	Skill Certification in Pharmacovigilance & Clinical Trials		B.Pharm./BBA/B.Sc./ B.Com. (with preference to B.Pharm.)	1. Online Counselling based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.
33.	Skill Certification in Pharmaceutical		B.Pharm./BBA/B.Sc./ B.Com. (with preference to B.Pharm.)	1. Online Counselling based on merit in qualifying examination.

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	Analysis & Quality Control			2. Manual Counselling for left over seats after Online Counselling.
34.	Skill Certification in Hospital Administration		B.Pharm./BBA/B.Sc./B.Com. (with preference to B.Pharm.)	1. Online Counselling based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.
<u>M.Tech. (Regular)</u>				
				1. Candidates with regular B.E./B. Tech./M.Sc. Degree (with specialization in respective branch) from a University recognized by UGC or its equivalent with at least 50% marks (45% marks in case of SC/ST category), are eligible along with the eligibility criteria mentioned below against each M.Tech. (Regular) Programme. 2. AMIE/AMIE/TE/AMACSE graduates including graduates from other similarly placed Govt. recognized/approved professional bodies equivalent to AMIE with 55% or above marks in their exams in such body, are eligible with the condition that the branch adopted at graduation level must be the same as the specialization applied for. 3. Candidate with a valid GATE score would be preferred, but GATE is not a mandatory requirement.
35.	Civil Engg. (Construction Technology & Management)	2 Yrs / 4 Sems	B.E./B.Tech. in Civil Engg./B.Arch.	1. Online Counselling based on merit in qualifying examination. 2. Manual counselling for left over seats after Online Counselling.
36.	Structural Engg.	2 Yrs / 4 Sems	B.E./B.Tech. in Civil Engg.	1. Online Counselling based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.
37.	Civil Engg. (Geo-Technical Engineering)	2 Yrs / 4 Sems	B.E./B.Tech. in Civil Engg.	1. Online Counselling based on merit in qualifying examination 2. Manual Counselling for left over seats after Online Counselling.

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38.	Civil Engg. (Structural & Foundation Engineering)	2 Yrs / 4 Sems	B.E./B.Tech. in Civil Engg.	1. Online Counselling based on merit in qualifying examination 2. Manual Counselling for left over seats after Online Counselling.
39.	Civil Engg. (Infra Structural Engineering)	2 Yrs / 4 Sems	B.E./B.Tech. in Civil Engg.	1. Online Counselling based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.
40.	Civil Engg. (Geo-informatics & Surveying Technology)	2 Yrs / 4 Sems	B.E./B.Tech. in Civil Engg.	1. Online Counselling based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.
41.	Civil Engg. (Environmental Engineering & Management)	2 Yrs / 4 Sems	B.E./B.Tech. in Civil Engg.	1. Online Counselling based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.
42.	Computer Science & Engg.	2 Yrs / 4 Sems	B.E./B.Tech. in Computer Science & Engg./IT	1. Online Counselling based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.
43.	CSE (Software Engineering)	2 Yrs / 4 Sems	B.E./B.Tech. in CSE/Software Engg./IT.	1. Online Counselling based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.

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44.	CSE (Computer Networks & Information Security)	2 Yrs / 4 Sems	B.E./B.Tech. in CSE/Network Security/ IT/Computer Networking/ECE.	1. Online Counselling based on merit in qualifying examination 2. Manual Counselling for left over seats after Online Counselling.
45.	Information Technology	2 Yrs / 4 Sems	B.E./B.Tech. in Computer Science & Engg./IT	1. Online Counselling based on merit in qualifying examination 2. Manual Counselling for left over seats after Online Counselling.
46.	CAD/CAM	2 Yrs / 4 Sems	B.E./B.Tech. in Mechanical/Industrial/Production/Manufacturing	1. Online Counselling based on merit in qualifying examination 2. Manual Counselling for left over seats after Online Counselling.
47.	Electronics & Communication Engg.	2 Yrs / 4 Sems	B.E./B.Tech. in Electronics & Comm./Electronics & Instrumentation/Electronics(Inst. & Control)/Applied Electronics/Electrical & Electronics Engg./M.Sc. in Physics (with specialization in Electronics)	1. Online Counselling based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.
48.	Micro Electronics	2 Yrs / 4 Sems	B.E./B.Tech. in Electronics & Comm./Electronics & Instrumentation/Applied Electronics/Electrical & Electronics Engg./M.Sc. in Physics (with specialization in Electronics)	1. Online Counselling based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.
49.	ECE (Embedded System)	2 Yrs / 4 Sems	B.E./B.Tech. in Electronics & Comm./Electronics &	1. Online Counselling based on merit in qualifying examination.

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			Instrumentation/Applied Electronics/Electrical & Electronics Engg./M.Sc. in Physics (with specialization in Electronics)	2. Manual Counselling for left over seats after Online Counselling.
50.	ECE (Signal Processing)	2 Yrs / 4 Sems	B.E./B. Tech. in Electronics & Comm./Electronics & Instrumentation/Applied Electronics/Electrical & Electronics Engg./M.Sc. in Physics (with specialization in Electronics)	1. Online Counselling based on merit in qualifying examination 2. Manual Counselling for left over seats after Online Counselling.
51.	(Electronics & Communications)	2 Yrs / 4 Sems	B.E./B. Tech. in Electronics & Comm./Electronics & Instrumentation/Applied Electronics/Electrical & Electronics Engg./M.Sc. in Physics (with specialization in Electronics)	1. Online based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.
52.	Electrical Engg.	2 Yrs / 4 Sems	B.E./B. Tech. in Electrical/Electronics & Instrumentation/Instrumentations & Control/Electrical & Electronics Engg.	1. Online based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.
53.	E. Security	2 Yrs / 4 Sems	B.Tech. CSE/IT/ECE	1. Online Counselling based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.
54.	Robotics & Mechatronics	2 Yrs / 4 Sems	B.E./B. Tech. /EE/ME/Industrial Engg. /Instrumentation and	1. Online Counselling based on merit in qualifying examination.

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			Control/Electronics and Instrumentation.	2. Manual Counselling for left over seats after Online Counselling.
55.	Instrumentation & Control Engg.	2 Yrs / 4 Sems	B.E./B.Tech. in Electronics & Instrumentation/Applied Electronics/Instrumentation & Control/Electrical & Electronics Engg./Electrical Engg.	1. Online Counselling based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.
56.	Power System	2 Yrs / 4 Sems	B.E./B.Tech. in Electrical Engg./Electrical & Electronics Engg./Electrical and Instrumentation Engg./ Electrical and Power Engg./ Electrical Devices and Power Systems/Electrical Engg. Industrial Control/Electrical Instrumentation and Control Engg., Electrical Power System/Instrumentation/ Instrumentation Engg./ Instrumentations & Control Engg.	1. Online Counselling based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.
57.	Electrical Engineering (Instrumentation & Control Engineering)	2 Yrs / 4 Sems	B.E./B.Tech. in Electrical Engg/Electronics & Instrumentation/Applied Electronics/Electrical & Electronics Engg./M. Sc. in Physics (with specialization in Electronics).	1. Online Counselling based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.

PROPOSED MRSSTU MINIMUM ELIGIBILITY CRITERIA FOR 2016-17 BATCH ADMISSIONS

58.	Electrical Engineering (Power System)	2 Yrs / 4 Sems	B.E./B.Tech. in Electrical Engg./Power Systems/Applied Electronics/Electrical & Electronics Engg.	1. Online Counselling based on merit in qualifying examination 2. Manual Counselling for left over seats after Online Counselling.
59.	Mechanical Engg.	2 Yrs / 4 Sems	B.E./B.Tech. in Mechanical Engg.	1. Online Counselling based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.
60.	Production Engg.	2 Yrs / 4 Sems	B.E./B.Tech. in Mechanical Engg./Production/Industrial Engg.	1. Online Counselling based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.
61.	Thermal Science Engg.	2 Yrs / 4 Sems	B.E./B.Tech. in Mechanical Engg.	1. Online Counselling based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.
62.	Mechanical Engg. (Automation & Robotics)	2 Yrs / 4 Sems	B.E./B.Tech. in Mechanical/Production/Electrical/Electronics & Instrumentation/Instrumentation & Control	1. Online Counselling based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.
63.	Mechanical Engg. (Computer Aided Design, Manufacture & Automation)	2 Yrs / 4 Sems	B.E./B.Tech. in Mechanical/Production	1. Online Counselling based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.

PROPOSED MRSSTU MINIMUM ELIGIBILITY CRITERIA FOR 2016-17 BATCH ADMISSIONS

64.	Mechanical Engg. (Industrial & Production Engineering)	2 Yrs / 4 Sems	B.E./B.Tech. in Mechanical Engg/ Industrial Engg./Production Engg	1. Online Counselling based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.
65.	IT/IT (Information Tech.-Cyber Warfare)	2 Yrs / 4 Sems	B.E./B.Tech. in IT/CSE	1. Online Counselling based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.
66.	Textile Technology	2 Yrs / 4 Sems	B.E./B.Tech. in Textile Engg./Tech.	1. Online Counselling based on merit in qualifying examination. 2. Manual Counselling for left over seats after Online Counselling.

PROPOSED REGISTRATION NUMBER SYSTEM FOR MRSSTU ADMITTED STUDENTS AND NOMENCLATURE FOR VARIOUS PROGRAMMES & COURSES

1. **PREAMBLE:** All the students to be admitted in Affiliated/Constituent Colleges/Main Campus of MRSSTU will be identified by an alphanumeric unique ID consisting of 13 characters, known as MRSSTU Student Registration Number. This number will be the same throughout the Programme of study of a student. This number consists of 13 characters, which will reveal,
 - a) The Year of Admission,
 - b) Affiliated College/Constituent College/Main Campus, where the student has been admitted,
 - c) Level of Programme: PG, UG, Post Graduate diploma, Certificate,
 - d) Programme in which student has been admitted
2. **TWO CHARACTER CODE FOR YEAR OF ADMISSION:** The two numbers (1st & 2nd characters from left to right) will signify the Year of Admission.
3. **THREE CHARACTER CODE FOR AFFILIATED/CONSTITUENT COLLEGES/MAIN CAMPUS:** The three numbers (3rd, 4th & 5th characters from left to right) will signify the code of Affiliated/Constituent Colleges/Main Campus, where the student has been admitted.
4. **THREE CHARACTER CODE FOR LEVEL OF PROGRAMME:** One number (6th character from left to right) will signify the level of Programme:
PG = Code M, UG = Code B, Post Graduate Diploma = Code P, Certificate = Code C, D = Diploma.
5. **FIVE CHARACTER PROGRAMME CODE:** The four alphabets (6th, 7th, 8th & 9th characters from left to right) and a number (10th character) will represent the Programme of a particular Department, where student has been admitted (Annexure-I).
If a department offers only one PG, UG, P, D or C Programme, then 10th character will be 1. For Example, if Department of Textile Engineering offers only one UG Programme - B.Tech. Textile Engineering, then its Programme code will be BTEX1. Similarly, if Department of Textile Engineering offers only one PG Programme - M.Tech. Textile Technology, then its Programme code will be MTEX1.
On the other hand, if Department of Mechanical Engineering offers two M.Tech. Programmes, then four alphabets of these Programme codes will be the same, but 10th character will be different. So, we will have: M.Tech. CAD/CAM Programme having code MMEE1 & M.Tech. Mechanical Engineering Programme having code MMEE2.
If a Course being offered by a Department is not specific to its own Programme then 10th character will be 0. For example, Applied Mathematics-I Course being offered to B.Tech. Programme is not specific to Programme of Mathematics Department. So Applied Mathematics-I Course Code is BMAT0-101. Similarly, if a Course being offered by a Department of its Programme is common with Programmes of other Departments, again 10th

PROPOSED REGISTRATION NUMBER SYSTEM FOR MRSSTU ADMITTED STUDENTS AND NOMENCLATURE FOR VARIOUS PROGRAMMES & COURSES

character will be zero. For example, Basics of Electrical Engineering Course offered by Electrical Engineering Department is common with other Departments, like Civil, Electronics, Mechanical, etc. So Basics of Electrical Engineering Course Code is BELE0-101.

6. **THREE CHARACTER CODE FOR SR. NUMBER ALLOTTED BY MRSSTU SPECIFIC TO THE PROGRAMME AND COLLEGE:** The three numbers (11th, 12th & 13th from left to right) will be allotted by MRSSTU to a student admitted specific to the Programme and College out of the series 001 to 999.
7. **EIGHT CHARACTER CODE FOR COURSES OF A PROGRAMME:** Each Course code will consist of eight character including five characters of the Programme code (from left to right). 6th character of the Course code will be a number to represent semester. 10th, 11th and 12th semesters will be represented by X, Y & Z characters, wherever applicable. 7th and 8th characters will be numbers as given below:
Departmental Core/Fundamental Courses: 01 to 30
Departmental Electives: 31 to 50
Open Electives offered by the Department: 51 to 60.
8. **ILLUSTRATION FOR REGISTRATION NUMBER:** Suppose a student has been admitted in 2016-17 July Batch Counselling, in a College having code 067 allotted by MRSSTU, Bathinda in B.Tech. Civil Engineering 1st Semester. MRSSTU has allotted 043 number specific to Programme and College. The MRSSTU Registration number of the student will be
16067BCIE1043
Again, if a student has been admitted in 2016-17 July Batch Counselling, in a College having code 112 allotted by MRSSTU, Bathinda in M.Tech. Mechanical Engineering 1st Semester. MRSSTU has allotted 012 number specific to Programme and College. The MRSSTU Registration number of the student will be
16112MMEE2012
9. **ILLUSTRATION FOR COURSE CODE OF A PROGRAMME:** If Department of Civil Engineering offers,
A Departmental Core/Fundamental Course at B.Tech. level in 3rd Semester, then its code may be BCIE1309.
A Departmental Elective Course at B.Tech. level in 5th Semester, then its code may be BCIE1532.
An Open Elective Course at B.Tech. level in 6th Semester, then its code may be BCIVE1653.
A Departmental Core Course at M.Tech. level in 2nd Semester, then its code may be MCIE-3209. Here 3 signifies that Department of Civil Engineering offers more than one M.Tech. Programmes.
10. Some Courses will be handled by Department of Humanities (HUM).

A	B	C	D	E	F	G
MRSSTU PROGRAMME CODES (ANNEXURE-1)						
S.No.	Department	Programme	Programme Code	Duration of Programme (Yrs)		
1						
2						
3	Aeronautical Engineering	B.Tech. Aeronautical Engineering	BAEE-1	4		
4	Agriculture	Bachelor of Agriculture Engineering	BAGE-1	4		
5	Architecture	B.Arch.	BBAR-1	5		
6		M.Arch.	MMAR-1	2		
7	Biotechnology	B.Sc. Biotechnology	BBBT-1	3		
8		M.Sc. Biotechnology	MMBT-1	2		
9		B.Sc. Medical Lab Technology	BBLT-1	3		
10		M.Sc. Medical Lab Technology	MMLT-1	2		
11	Chemical Engineering	B.Tech. Chemical Engineering	BCHE-1	4		
12	Chemistry	M.Sc. Applied Chemistry	MCHM-1	2		
13	Civil Engineering	B.Tech. Civil Engineering	BCIE-1	4		
14		M.Tech. Civil Engg. (Environmental Engineering & Management)	MCIE-1	2		
15		M.Tech. Civil Engg. (Geoinformatics & Surveying)	MCIE-2	2		
16		M.Tech. Civil Engg. (Geotechnical Engineering)	MCIE-3	2		
17		M.Tech. Civil Engg. (Infrastructure Engineering)	MCIE-4	2		
18		M.Tech. Civil Engg. (Structural & Foundation Engineering)	MCIE-5	2		
19		M.Tech. Civil Engg. (Construction Technology & Management)	MCIE-6	2		
20		M.Tech. Civil Engineering	MCIE-7	2		
21		M.Tech. Structural Engineering	MCIE-8	2		
22	Commerce	B.Com. (Hons)	BCOM-1	3		

A	B	C	D	E	F	G
23						
21		M.Com.	MCOM-1	2		
22	Computer Applications	BCA	BCAP-1	3		
23		MCA	MCAP-1	3		
24		Post Graduate Diploma in Computer Applications	PCAP-1			
25	Computer Sc. & Engineering	B.Sc. Computer Science	BBCS-1	3		
26		M.Sc. Computer Science	MMCS-1	2		
27		B.Tech. Computer Sc. & Engineering	BCSE-1	4		
28		M.Tech. Computer Sc. & Engineering	MCSE-1	2		
29		M.Tech. CSE (Computer Networks & Information Security)	MCSE-2	2		
30		M.Tech. CSE (Software Engineering)	MCSE-3	2		
31		M.Tech. E. Security	MCSE-4	2		
32						
33	Electrical Engineering	B.Tech. Electrical Engineering	BELE-1	4		
34		M.Tech. Electrical Engineering	MELE-1	2		
35		M.Tech. Electrical Engineering (Instrumentation & Control Engineering)	MELE-2	2		
36						
37		M.Tech. Electrical Engineering (Power System)	MELE-3	2		
38		M.Tech. Instrumentation & Control Engineering	MELE-4	2		
39		M.Tech. Power System	MELE-5	2		
40	Electronics Engineering	B.Tech. Electrical & Electronics Engineering	BECE-1	4		
41		B.Tech. Electronics & Communication Engineering	BECE-2	4		
42		M.Tech. (Electronics & Communications)	MECE-1	2		

A	B	C	D	E	F	G
43		M.Tech. ECE (Embedded System)	MECE-2	2		
44		M.Tech. ECE (Signal Processing)	MECE-3	2		
45		M.Tech. Electronics & Communication Engineering	MECE-4	2		
46		M.Tech. Micro Electronics	MECE-5	2		
47	Environmental Sc. & Engineering	B.Tech. (Environmental sc. & Engineering)	BESE-1	4		
48		M.Tech. (Environmental sc. & Engineering)	MESE-1			
49		M.Sc. Environmental Chemistry	MESE-2	2		
50	Fashion Technology	B.Sc. Fashion Design	BBFD-1	3		
51		B.Sc. Fashion Technology	BBFT-1	3		
52		M.Sc. Fashion Technology	MMFT-1	2		
53	Food Technology	B.Tech. Food Science & Technology	BFST-1	4		
54	Hotel Management	B.Sc. Airline Tourism & Hotel Management	BBAH-1	3		
55		M.Sc. Airline Tourism & Hotel Management	MMAH-1	2		
56		Bachelor of Hotel Management & Catering Technology	BBHC-1	4		
57		B.Sc. Information Technology	BBIT-1	3		
58		M.Sc. Information Technology	MMIT-1	2		
59		M.Tech. Information Technology	MMIT-2	2		
60		M.Tech. IT/IT (Information Tech.- Cyber Warfare)	MMIT-3	2		
61	Management	BBA	BBAD-1	3		
62		MBA	MBAD-1	2		
63	Mathematics	M.Sc. Applied Mathematics	MMAT-1	2		
64	Mechanical Engineering	B.Tech. Mechanical Engineering	BMEE-1	4		

MAHARAJA RANJIT SINGH STATE TECHNICAL UNIVERSITY, BATHINDA

	A	B	C	D	E	F	G
65	62		M.Tech. CAD/CAM	MMEE-1	2		
66	63		M.Tech. Mechanical Engineering	MMEE-2	2		
67	64		M.Tech. Mechanical Engineering (Automation & Robotics)	MMEE-3	2		
68	65		M.Tech. Mechanical Engineering (Computer Aided Design, Manufacture & Automation)	MMEE-4	2		
69	66		M.Tech. Mechanical Engineering (Industrial & Production Engineering)	MMEE-5	2		
70	67		M.Tech. Mechanical Engineering	MMEE-6	2		
71	68		M.Tech. Production Engineering	MMEE-7	2		
72	69		M.Tech. Robotics & Mechatronics	MMEE-8	2		
73	70		M.Tech. Thermal Science Engineering	MMEE-9	2		
74	71	Pharmacy	B.Pharm.	BPHA-1	4		
75	72		M.Pharm. (Pharmaceutics)	MPHA-1	2		
76	73		M.Pharm. (Pharmacology)	MPHA-2	2		
77	74		MBA in Pharmaceutical Management	MMPM-1	2		
78	75		Pharm.D.	MPHD-1	6		
79	76		Skill Certification in Hospital Administration	CSHA-1			
80	77		Skill Certification in Pharmaceutical Analysis & Quality	CSPQ-1			
81	78		Skill Certification in Pharmaceutical Marketing &	CSPE-1			
82	79		Skill Certification in Pharmacovigilance & Clinical	CSPC-1			

MAHARAJA RANJIT SINGH STATE TECHNICAL UNIVERSITY, BATHINDA

	A	B	C	D	E	F	G
83	80	Physics	M.Sc. Applied Physics	MPHY-1	2		
84	81	Textile Engineering	B.Tech. Textile Engineering	BTEX-1	4		
85	82		M.Tech. Textile Technology	MTEX-1	2		

MIGRATION REGULATIONS

MRSSTU Migration Regulations-2016 to be implemented from 2016-17 session are as under,

1. Intra University or Inter University migration will be allowed to those students who are eligible to register for under mentioned semesters. Inter College migration in the same city shall be discouraged.

S.No.	Duration of Programme/Discipline	Semester in which migration is sought
1.	4/5 years Degree Programme	3 rd or higher
2.	2/3 years Degree Programme	2 nd or higher

2. Migration shall be allowed before start of the above mentioned semester/sessions along with NOCs from the both parent and the host Colleges/Universities.
3. The candidates shall not be allowed to change his/her Discipline/Programme of study in the process of migration except where the branch upgradation is allowed under the applicable rules of up gradation.
4. **Order of Preference for Migration:**
 - a) Branch upgradation, if applicable, shall be carried out at the college level on the basis of the results of 1st & 2nd semesters. This will be as per regulations for upgradation/change of Branch.
 - b) Thereafter merit, worked out on the basis of marks obtained in the, first and second semesters (combined), shall form the basis of migration for 4/5 Year Degree Programme and first semester for 2/3 Year Degree Programme, respectively.
 - c) Preference will be given to the students who have cleared all subjects of the first year and first semester of their 4/5 Years Degree Programme and 2/3 Year Degree Programme, respectively.
5. **Procedure for Intra University Migration:**
 - a) The Institute where the student is studying and the Institute to which migration is sought, should issue a No Objection Certificate to the applicant in the format given at **Appendix-2**.
 - b) The student seeking migration must submit an application written and signed by him/her together with the 'No Objection Certificate' issued by both the Colleges.
 - c) The University will authorize migration only against a vacant seat available in the Discipline/Programme in which migration is sought.
 - d) In case the student gives complaint to the University regarding non-issuance of NOC by the parent college, University will write a letter this College. If any reply with valid reasons is not received within 15 days, then the condition of NOC from the parent College will be waived off.
 - e) Fee deposited by the migrated student to his/her parent Institute shall be transferred by the parent Institute to the host Institute along with his/her attendance/sessional record within 15 days from the date of issue of migration order.
6. **Procedure for Inter University Migration:**

Migration to a Constituent/Affiliated Institute of the University from other recognized Universities will be allowed 15 days prior to the start of a semester generally, but may be considered during the semester under special circumstances, such as:

MRSSTU MIGRATION REGULATIONS-2016

- a) Transfer of Parents/Parent from one State to another.
- b) Relocation of family to Punjab from other state and vice-versa due to some natural/non murder calamity.
- c) The following conditions shall apply
 - i) The candidate should have passed all the courses of the first year of his/her Programme of the University from where he/she wants to migrate.
 - ii) The Courses studied by the candidate in first year must be equivalent to the Courses offered in this University. Deficiency, if any, should not be of more than three subjects. The candidate would be required to furnish an undertaking that he/she will attend classes and pass the Courses found deficient.
 - iii) The Institute and the University where the student is studying and the Institute, to which migration is sought, have no objection to the migration.
 - iv) There is a vacant seat available in the Discipline/Programme in the College in which migration is sought. No change of Discipline/Programme shall be allowed.
 - v) In addition to the above, migration will be governed by the rules of the University to which migration is sought.
 - vi) Shifting of branch within the College as per merit under MRSSTU rules shall have preference over Intra University migration or Inter University migration.
 - vii) Intra University migration shall be given preference over Inter University migration.

Power of Relaxation: Notwithstanding the existing Migration Regulations, the Vice-Chancellor in matters of exigency, to be recorded in writing, shall be authorized to consider migration on compassionate grounds for the cases that are not otherwise covered under Migration Regulations.

7. **Migration Application Processing Fee:** The Migration Application Processing Fee shall be as under:
 - a) Rs. 10,000/- for Intra University Migration.
 - b) Rs. 20,000/- for Inter University Migration.
8. The student seeking migration shall have to submit an Application as per **Appendices-1 & 2** along with Migration Application Processing Fee, as applicable. Migration Processing Fee is nonrefundable.
9. Submission of Application for migration does not guarantee migration.

MRSSTU MIGRATION REGULATIONS-2016

Appendix-1 (Common)
(Refer to Para 8 of the Migration Regulations)

MAHARAJ RANJIT SINGH STATE TECHNICAL UNIVERSITY, BATHINDA.
Application Form for Migration



1. Name (In Capital Letters) :
2. Father's Name :
3. Mother's Name :
4. College Roll No. :
5. Name of the parent College/Programme/
Semester/University Roll No. with
documentary proof. :
6. Last Examination of this University
(in which appeared/pass/fail)
(a) Name of the Last Examination :
- (b) Year/Session/Semester :
- (C) Result :
7. Give the reasons if the migration is sought
in the same city or for other than 3rd sem.
(4/5 Year degree Programme)/2nd sem.
(2/3 Year degree Programme) :
8. Name of the College/University :
- To which migration is sought.
9. Payment of Migration Application
Processing Fees : Rs.
- University Receipt No./Bank Draft :
- No. with Date
10. Full Address of the Applicant
(with Mobile No.)
.....
.....

Date:

Signature of the Candidate

Note:- Attach (Appendix-2) NOC from both the Institutes i.e. from where migration is sought and to where migration is required and Character Certificate from parent Institute.

Appendix-2

(Refer to Para 5 (a) of the Migration Regulations)

MAHARAJ RANJIT SINGH STATE TECHNICAL UNIVERSITY, BATHINDA

NO OBJECTION CERTIFICATE

(Issued by the Principal of the College from where the student seeks migration)

Ref. No:

Date:

This is to certify that Mr./Ms.

S/d/o..... University Roll No..... is a

regular student of this College in

Discipline/Programme/Branch. She/he has applied for migration to

..... under Maharaja Ranjit Singh State Technical University,
Bathinda. This College has no objection to her/his migration out of this College.

(a) The student is eligible to register for..... semester commencing
from.....

(b) She/he has cleared all his/her subjects of first year or She/he has following subject/subjects
not cleared as on today
.....
.....

(c) There are no College dues pending against the student as on today.

(d) The student attended workshop training during summer vacation of 20..... and
her/his performance shall be forwarded to the receiving college by 31st August, 20 .

Note: The Principal/Director must issue NOC or send his observations to the MRSSTU within 10
days of the submission of application by the student.

Signature of the Principal with seal

NO OBJECTION CERTIFICATE

(Issued by the Principal of the College to which the student seeks migration)

Ref. No:

Date:

(a) This is to certify that this institute has.....(number) of seats vacant
in.....Programme/Discipline.

(b) This is also to certify that this institution has no objection to the migration of

Mr/Miss.....S/d/o.....

University Roll No.....student of College

(parent College).....

Programme/Discipline/Branch.....to this College.

Signature of the Principal with seal

MAHARAJA RANJIT SINGH STATE TECHNICAL UNIVERSITY, BATHINDA

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref. No: DAA/MRSSTU/079Dated: 18/12/2015**ACADEMIC CALENDAR FOR THE YEAR 2016**

The following academic schedule is proposed for all affiliated and constituent colleges of MRSSTU, Bathinda for the year 2016.

S. No.	Event	Proposed Dates
1.	Winter Vacation	22/12/2015 to 01/01/2016
EVEN SEMESTER		
1.	Start of Even Semester	04/01/2016
2.	First House Test	22/02/2016 to 27/02/2016
3.	Second House Test	04/04/2016 to 09/04/2016
4.	External Practical Examinations	22/04/2016 to 26/04/2016
5.	End Semester Examinations	03/05/2016 onwards
1.	Summer Vacation	01/06/2016 to 15/07/2016
ODD SEMESTER		
1.	Start of odd semester (except first semester)	25/07/2016
2.	Start of first semester	01/08/2016
3.	First House Test	19/09/2016 to 24/09/2016
4.	Second House Test	07/11/2016 to 12/11/2016
5.	External Practical Examinations	25/11/2016 to 28/11/2016
6.	End Semester Examinations	02/12/2016 onwards
1.	Winter Vacation	22/12/2016 to 02/01/2017

Sem 4/1/16 to 21/4/16

Ranjit Singh
Dean Academic Affairs 18/12/15

ANNEXURE - XIX

Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.
(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref No : DAA/MRSSTU/15/022

Dated : 05/11/15

It is to inform you that a letter has been received from Principal S.M. Degree College, Changali Wala (Lehragaga)-148031, Distt. Sangrur vide their reference no. 125/15 dated 28.10.2015. This letter has been received in the MRSSTU, Bathinda vide Diary No. 1026 dated 28.10.2015.

In the letter, it has been conveyed that the college is running M.Sc. Environmental Science as a course, but till date the college has not received its syllabus from Punjab Technical University, Jalandhar. Now this college is affiliated to MRSSTU, Bathinda. This college has requested to provide them the curriculum to be followed. The Principal of this college has informed through email dated 30.10.2015 (copy enclosed) that in the absence of M.Sc. Environmental Chemistry Syllabus to be followed, the students are being taught syllabus of M.Tech Environment Science Engg. of PTU, Kapurthala.

Syllabus of M.Tech Environment Science Engg. of PTU, Kapurthala has been compared with M.Sc. Environmental Science syllabi of three other universities:- Pune University, JNU & BHU. On comparing M.Sc. Environmental Science syllabi of these three universities with M.Tech Environment Science Engg. syllabus of PTU, Kapurthala, it has been found that most of the components of syllabus of 1st semester of these four universities are common.

Since this course is yet to be allocated to some Board of Studies and December University Examination is approaching, it is suggested that to meet the urgent need of curriculum for the ongoing semester, syllabus and study scheme of M.Tech Environment Science Engg. of PTU, Kapurthala may be approved. In the mean time, new Board of Studies for Environmental Science & Technology will be constituted and new syllabus for M.Sc. Environmental Science will be prepared. From 2nd semester onwards, the syllabus to be prepared by this BOS will be followed.

However, syllabi of M.Sc. Environmental Science of the 04 (four) universities including that of PTU, Kapurthala downloaded from internet are enclosed for your kind reference.

The matter is put up for issuing further instructions please.

*First semester examination
be conducted on per syllabus
taught to the student
and syllabus of the
course may be
designed and approved at - UoT
attached*

Hon'ble Vice Chancellor

[Signature]

1/1

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[Signature]
Dean Academic Affairs
MRSSTU, Bathinda
05/11/15

**MAMAKAJA RANJIT SINGH STATE TECHNICAL UNIVERSITY,
BATHINDA**

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)
Ref No: H060/319

Date: 01/3/16

The 1st meeting of BOS (Environmental Science & Technology), MRSSTU, Bathinda was held in the Department of Civil Engineering, GZSCCET, Bathinda on 26th February, 2016 (Friday) at 11:30 AM in ref. to DAA/MRSSTU/172 dated 24th February 2016.

The following were present:

1. Er. G.S. Bath, Head, Department of Civil Engineering, MRSSTU, Bathinda.
2. Dr. Gursharn Singh, Dean, MRSSTU, Bathinda.
3. Dr. Manjeet Bansal, Associate Professor, Department of Civil Engineering, MRSSTU, Bathinda.
4. Dr. Manpreet Singh Bhatti, Department of Botanical & Environmental Sciences, GNDU, Amritsar.
5. Dr. Seema Sharma, Head, Department of Chemistry, MRSSTU, Bathinda.
6. Er. Ruby Sidhu, Assistant Environmental Engineer, Punjab Pollution Control Board, Regional Office, DAC Bathinda.

The minutes of meeting are as follows:

1. The syllabus for M.Sc. Environmental Science has been finalized as per the requirement of S. M. degree college Sunam road Changaliwala (Lehragaga), Dist. Sangrur. This college has already started M.Sc. Environmental Sciences with the approval of PTU Jalandhar, *as approved*
2. This syllabus will be applicable to 2015 batch only which was admitted by PTU Jalandhar. Syllabus for 2016 onward batches will be finalized later on as per the grade system of MRSSTU, Bathinda.
3. Study scheme for 2015 batch is finalized as per following table.

Semester 1

Course Code	Course Name	Load Allocation			Marks Distribution		Total Marks
		L	T	P	Internal	External	
ES-501	Remedial Course	3	1	-	50	100	150
ES-502	Physics of Environment	3	1	-	50	100	150
ES-503	Environmental Chemistry	3	1	-	50	100	150
ES-504	Water Pollution & Waste water Treatment	3	1	-	50	100	150
ES-505	Air Pollution & Control	3	1	-	50	100	150

Total 750

G.S. Bath
26/2/16

Manjeet Bansal
26/2/2016
Gursharn Singh
26/2/16

Manpreet Singh Bhatti
26/2/2016

Seema Sharma
26/02/16

Ruby Sidhu
26/02/16

Semester 2

Course Code	Course Name	Load Allocation			Marks Distribution		Total Marks
		L	T	P	Internal	External	
ES-531	Natural Resource Management	3	-	-	50	100	150
ES-532	Instrumental Methods of Analysis	3	-	-	50	100	150
ES-533	Environmental Microbiology	3	-	-	50	100	150
ES-534	Environmental Modelling and Statistics	3	-	-	50	100	150
ES-535	Instrumental Methods of Analysis Lab	-	-	2	50	50	100
ES-536	Environmental Microbiology Lab	-	-	2	50	50	100

Total 800

Semester 3

Course Code	Course Name	Load Allocation			Marks Distribution		Total Marks
		L	T	P	Internal	External	
ES-537	Ecological Principles	3	-	-	50	100	150
ES-538	Solid Waste Management	3	-	-	50	100	150
ES-539	Soil and Noise Pollution	3	-	-	50	100	150
ES-540	Environmental Law	3	-	-	50	100	150

Total 600

Semester 4

Course Code	Course Name	Load Allocation			Marks Distribution		Total Marks
		L	T	P	Internal	External	
ES-541	Environmental Impact Assessment & Auditing	3	-	-	50	100	150
ES-542	Remote Sensing & GIS	3	-	-	50	100	150
ES-543	Environment & Energy Management	3	-	-	50	100	150
ES-544	Project Report/ Status Report/ Industrial Visit Report	3	-	-	50	50	100

In all theory exams there will be eight questions of twenty marks each and the candidate has to attempt any five questions.

Total 550

Meeting ended with thanks to the Chairperson of BOS

(Er. G.S. Bath)

(Dr. Gursharn Singh)

(Dr. Manjeet Bainsal)

(Dr. Manpreet Singh Bhatti)

(Dr. Seema Sharma)

(Er. Ruby Sidhu)

Forwarded

*JSB
01/03/16*

Dean Academics MRCS TU BTI

1ST SEMESTER

ES 501: Remedial Course

BASICS OF ENGINEERING

The course includes the basic concepts of the engineering disciplines like

1. Electrical/ Engg. : Electricity, Electric conduction, three Phase system, Electrical machinery, Transformers, motors, electric furnaces and other appliances.
2. Electronics: Semiconductor Technology; devices and materials, introduction to chips and microprocessors, power electronics,
3. Mechanical & Production Engg. : Thermodynamic: First, second & third laws, Mechanical properties, steels and engineering alloys, deformation, solidification and machining processes,
4. Civil Engg.: structures, buildings, roads & Bridges, construction materials, cements, concrete & timber; properties, characterization and utilities.
5. Chemical Engg. : Chemical processes, interactions, kinetics & applications, biochemical & biological reactions.
6. Engineering & Technical Drawing

ES 502: Physics of Environment

The course introduces Radiation science, types of nuclear reactors, radiation (units, dose and health effects), radioactive waste control and management, and methods of radioactivity detection.

Physics of Atmospheres and Oceans. Fundamental physical processes in atmospheres and oceans. Thermodynamics, condensation, precipitation, hydrostatic balance, stability, convection, radiation, remote sensing, clouds, climate, primitive equations, geostrophic balance, turbulence, waves, hydrodynamic instability, the general circulation, ice age, clouds and Earth's radiation budget, convection and the planetary boundary layer, Earth's middle atmosphere, planetary atmospheres, basic structure of the atmosphere and relevant meteorological considerations; sources of tropospheric air pollutants; atmospheric photosensitivity, ozone layer depletion; causes and remedy.

ES 503: Environmental Chemistry

Course topics include the following: Concept of Green Chemistry

- (1) rates of chemical and biochemical reactions with applications in disinfection and biological treatment;
- (2) acid-base reactions and the carbonate system with applications in neutralization and pH control;
- (3) complexation reactions and chelation with applications in chemical coagulation and metals bioavailability;
- (4) precipitation and dissolution phenomena with applications in iron and phosphate removal and carbonate scaling;
- (5) oxidation-reduction reactions with applications in metals removal processes (e.g., hexchrome reduction), biochemical reactions and acid mine drainage;
- (6) a survey of organic chemistry and how organic compounds react and behave in the environment, including principles associated with air-water partitioning, solvent-water partitioning, and sorption phenomena with application in air stripping and adsorption; and

(7) a survey of environmental laboratory procedures and analytical techniques in environmental chemistry for both inorganic and organic compounds ; the ozone, oxide of nitrogen, and hydrocarbon chemical cycles; chemistry of toxic organic compounds in the atmosphere gas and aqueous phase chemistry of sulfur dioxide; size distributions, lifetimes, origins and formation mechanisms of aerosols; and control of atmospheric.

ES 504: Water Pollution & Waste Water Treatment

Water Pollution: Characterisation of Effluents, Effluents Standards. Physical, Chemical and Biological Characteristics of Waste Water, BOD, COD and TOD – Their estimation and correlation ; BOD progression curve and kinetics , effects of reaction rate constant on short term BOD, determination of BOD rate constants ; Effect of Temperature on BOD ; Nitrification and De- Nitrification and their kinetics. Other primary treatment, Hydrogeology and Groundwater Pollution Properties of major water pollutants, interactions and kinetics. Interactions between watersheds and receiving waters, and impacts of wastewater on aquatic ecosystems, such as saprobity, eutrophy, pathogenicity, toxicity, etc..Industrial Water Treatment, Municipal Wastewater Treatment, Municipal Wastewater Treatment

ES 505: Air Pollution and Control

Air Pollution: Micro Metrology and dispersion of pollutants in environment, Fate of Pollutants.

Air Pollution Control Technologies: Centrifugal collectors, Electrostatic Precipitators, Bag Filters and Wet Scrubbers. Design and efficiencies, Combustion generated pollution, vehicle emission control. Case Studies.

Air Pollution; Types and strategies for waste minimization, pollution prevention, the concepts of air pollution control design, the regulatory and environmental concerns, which drive the air pollution, control industry. Students are led through the design process from basic theory to practical application and case studies. The sources of air pollution and the available control options are presented and discussed in detail

2ND SEMESTER

ES 531: Natural Resource Management

Unit-I

Physical Resources: Renewable & non-renewable resources. Soil resources: soil type, soil profile and soil erosion. Water resources: Surface water, ground water, hydrological cycle. Mineral resources: Types, their characteristics & uses, minerals from the sea.

Unit-II

Energy resources: Fossil fuels, nuclear energy, solar energy, wind energy, tidal energy, geothermal energy, hydropower. Hydrogen as a source of energy, energy from biomass, bioconversion technology, energy plantations and petro-crops. Environmental impacts of various forms of energy use.

Unit-III

Biological resources: forests, their importance, types, primary and secondary products -value & uses, forest resources of India. Wild-life of India. Range lands: Types, significance, range lands in India. Convention on biodiversity.

Unit-IV

Biodiversity : Definition; Historical and geographical causes for diversity; Types of diversity; threats to biodiversity and species extinction, threatened and endangered species, hot spots of biodiversity, biodiversity conservation strategies - in situ and ex situ conservation ; National wilderness areas, biosphere reserves, gene banks, germ plasma Banks,

Reference Books:

1. Natural Resources conservation-Oliver S Owen & Chiras
2. Living in the Environment -T.J.Miller
3. Environmental Science- Cunningham Saigo
4. Ecology of Natural Resources-Ramade
5. Global Biodiversity-W.R.L. IUCN
6. Soils-Miller, W & R.L. Donhau

ES 532: Instrumental Methods of Analysis

Unit-I

Method of collection of Air, Water & Soil samples. Principles working and applications of Spectrophotometry (UV-Visible spectrophotometry, flame photometry, Atomic Absorption spectrophotometry).

Unit-II

Principles, working and applications of X-Ray diffraction, Colorimetry and polarimetry, Fluorometry.

Unit-III

Principles, working and applications of Microscopy-Phase contrast, fluorescent, polarization, SEM.

Unit-IV

Principles, working and applications of Chromatographic techniques (Paper chromatography, thin layer chromatography, Gas liquid chromatography, High pressure liquid chromatography, Ion exchange chromatography, Column chromatography),

Reference Books :

1. Undergraduates Instrumental Analysis- James W. Robinson
2. Modern methods of Chemical analysis- Robert, Shields, Cairns, William.

ES 533: Environmental Microbiology

Unit-I

Aquatic Microbiology: Microbes in aquatic systems, Measuring activity of microbes in water, Pathogens in water, Water health standards, bio-films.

Unit-II

Soil microbiology: Microbes in soils and their role, microbial interactions, mineralization and immobilization of nutrients in soil, Microbial degradation of cellulose, lignin Microbe mediated C, N and S transformations mycorrhiza and their environmental significance.

Unit-III

Biodegradation microbiology: Interaction of biological, chemical and environmental factors in Biodegradation processes. Bioremediation processes; Definition and classification including *in situ* and *ex situ* types.

Unit-IV

Applied Environmental Microbiology: Biodegradation of pesticides and hydrocarbons, Sewage sludge treatment using microbes, microbial fermentations, biohydrometallurgy and microbial recovery of oil.

Reference Books:

1. Microbiology- J.G. Black
2. Microbial Biotechnology-A.N. Glazer
3. Microbial Ecology- R.M. Atlas & Bartha

4. Microbiology- Pelczar

5. Introduction to Environmental Microbiology - Barbara Kolwzan, Waldemar Adamiak, Kazimierz Grabas and Adam Pawelczyk

ES 534: Environmental Modelling and Statistics

Unit-I

Role of modeling in environmental sciences, model classification deterministic models, stochastic models, steady state models, dynamic models.

Unit-II

Different stages involved in model building. Methods for the formulation of dynamic balance equations-mass balance procedures, energy balancing, simple microbial growth kinetics, Monod equation.

Unit-III

Simulation examples- Streeter-Phelps Oxygen Sag Model, Lotka-Volterra Predator Prey Model.

Unit-IV

GIS-Principle, Scope, Methodology and role in environmental modeling and management

Reference Books:

1. Dynamics of Environmental Bioprocesses- Modeling & Simulation – Snape & Dunn
2. Environmental Modelling- Jorgensen

ES 535: Instrumental Methods of Analysis (Lab)

Use of pH meter, Conductivity meter, Nephelometry, UV-Visible Spectrophotometer, Flame photometer, Paper chromatography, Thin layer chromatography, GC, HPLC, Atomic Absorption spectrophotometer etc.

ES 536: Environmental Microbiology (Lab)

1. Isolation of microorganisms from soil or other sources.
2. Microbial culture techniques - serial dilution - pour plate, spread plate and streak plate methods etc.
3. Bacterial Staining methods - simple, Gram's, acid fast, flagella, capsule and spore.
4. Fungal Staining methods - Lacto-phenol cotton blue
5. Determination of growth curve of a supplied microorganism
6. Extracellular enzyme activities - cellulase, protease, lipase and phosphatase
7. Isolation of microbes growing in polluted environments.
8. Microbial dye decolorization/adsorption.
9. Industry visit.

3RD SEMESTER

ES 537: Ecological Principles

1. **The Environment:** Physical environment; biotic environment; biotic and abiotic interactions.
2. **Habitat and Niche:** Concept of habitat and niche; niche width and overlap; fundamental and realized niche; resource partitioning; character displacement.

3. **Population Ecology:** Characteristics of a population; population growth curves; population regulation; life history strategies (r and K selection); concept of metapopulation – demes and dispersal, interdemec extinctions, age structured populations.
4. **Species Interactions:** Types of interactions, interspecific competition, herbivory, carnivory, pollination, symbiosis.
5. **Community Ecology:** Nature of communities; community structure and attributes; levels of species diversity and its measurement; edges and ecotones.
6. **Ecological Succession:** Types; mechanisms; changes involved in succession; concept of climax.
7. **Ecosystem Ecology:** Ecosystem structure; ecosystem function; energy flow and mineral cycling (C,N,P); primary production and decomposition; structure and function of some Indian ecosystems: terrestrial (forest, grassland) and aquatic (fresh water, marine, eustarine).
8. **Biogeography:** Major terrestrial biomes; theory of island biogeography; biogeographical zones of India.
9. **Applied Ecology:** Environmental pollution; global environmental change; biodiversity: status, monitoring and documentation; major drivers of biodiversity change; biodiversity management approaches.
10. **Conservation Biology:** Principles of conservation, major approaches to management, Indian case studies on conservation/management strategy (Project Tiger, Biosphere reserves).

References:

1. Chapman, J. L. and Reiss, M. J. (1998). Ecology: Principles and Applications. Second Edition. Cambridge University Press.
2. Krebs, C.J. (1994). Ecology: The Experimental Analysis of Distribution and Abundance. Fourth Edition, Harper Collins College Publishers.
3. Miller, G.T. (2006). Essentials of Ecology. Fourth Edition. Thomson, Brooks/Cole.
4. Odum, E.P. (1983). Basic Ecology. Saunders College Publishers.
5. Pianka, E.R. (2011). Evolutionary Ecology. Seventh Edition.
6. Ricklefs, R.E. and Miller, G. (1999). Ecology. Fourth Edition. W.H. Freeman Publishers.
7. Hollar, S. (2011). Ecology: The delicate Balance of Life on Earth. Britannica Educational Publishing, The Rosen Publishing Group, LLC, NY.
8. Jorgensen, S.V. (2009). Ecosystem Ecology. Academic Press, Elsevier, The Netherlands.

ES 538: Solid Waste Management

Unit-I

Solid wastes: Sources and classification of solid wastes, Solid waste management options: Sanitary Landfill, Recycling, Composting, Incineration, Energy recovery options from organic wastes.

Unit-II

Solid waste management plan, Municipal Solid Waste (Management and Handling) Rules, 2000

Hospital waste management, Biomedical Waste (Management and Handling) Rules, 1988

Unit-III

Fly ash management, Fly ash Management Rules, (1999) Hazardous waste management: Sources and classification, Hazard communication,

Unit-IV

Hazardous Waste Management: Physico-chemical properties of hazardous waste needed in management., Hazardous waste control, treatment and management, Hazardous Waste (Management and Handling) Rules (1989) and (2000) Amendments

References:

1. Solid Waste Management Manual CPCB, New Delhi
2. Ecotechnology for Pollution Control and Environmental Management by Trivedy R.K. and Arvind Kumar
3. Basic Environmental Technology Nathanson, J.A.

ES 539: Soil and Noise Pollution

Unit I

Soil pollution: Definition, sources, effects and impacts, Soil organic matter, Humus, Microorganisms in soil, Decomposition of organic matter in soil, Soil as dump yard of waste materials, Agrochemicals (pesticides and synthetic fertilizers).

Unit II

Soil management: Methodologies of soil conservation, Techniques of reclamation and restoration of soil, Soil salinity management, Remedial measures for soil pollution, Concept of bioremediation and phytoremediation.

Unit III

Noise pollution and its control: Definition, sources, properties of sound waves, Sound pressure, intensity, decibel, measurement and analysis of sound, Sound absorption, effects and impacts on human, Noise exposure level and standards, Noise control, Preventive measures and abatement measures.

References:

1. Dinesh M. and Misra S.G. (2009). *Soil pollution*. APH Publisher, New Delhi.
2. Yarón B., Calvet R. and Prost R. (1996). *Soil pollution: origin, monitoring and remediation*. Springer, USA.
3. Ronald L.C. and Don L.C. (1996). *Bioremediation: principles and applications*. Cambridge University Press, UK.
4. Wang, Lawrence K. Wang, Lawrence K. Pereira Norman C. (2004). *Advanced air and noise pollution control: Volume 2*, Humana Press, USA.
5. Rao, C.S. (2006). *Environmental pollution control engineering*, New Age International Publishers, New Delhi.

ES 540: Environmental Law

Unit-I

Environmental awareness approaches: Role of media in environmental awareness, role of NGOs in environmental movements, Chipko movement, Appiko movement, Ecomark scheme, Sustainable Development.

Unit-II

International environmental initiatives: The Stockholm Declaration, Earth Summit, Convention on protection of environment, Ramsar convention on wetlands, Outer space treaty, Vienna convention & Montreal Protocol, Kyoto Protocol.

Unit-III

Pollution control through legislation in India with special reference to the Water Prevention and Control of Pollution) Act, 1974; The Air (Prevention and Control of Pollution) Act, 1981; The Environmental Protection Act, 1986, Forest & Wild Life Act.

Unit-IV

Principles of Guru Jambheshwar Ji Maharaj, Movements for tree preservation

Reference Books:

1. Economics and Environment – Good Steie
2. Environmental Planning, Policies & Programmes in India – K.D. Saxena
3. Land – Use and Environment – S.M. Mujtava
4. Environmental Administration and Law- Paras Diwan.

4TH SEMESTER

ES 541: Environmental Impact Assessment & Auditing

Unit I

Introduction: EIA - Principles, origin, development, types, issues, problems and limitations, Environmental risk assessment, Environmental management plan, Environmental impact statement (EIS), EIA guidelines and notifications.

Unit II

EIA methodology: Components – screening, scoping, base line data, impact identification, prediction, evaluation, mitigation, matrices, networks, checklists and overlays, Assessment techniques – cost benefit analysis, analysis of alternatives, methods of prediction and assessment of impacts – air, water, soil, noise, biological, social, cultural, economical, environmental, Standards and guidelines, public participation, presentation, review and decision making, Quality control – trends in EIA practice, evaluation criteria, expert system in EIA, use of regulations, Documentation and monitoring – planning, collection, use of display materials, team writing, checklist, environmental monitoring guidelines and policies, Environment management plan, post audit, EIA case studies.

Unit III

Environmental auditing and management: Definition and types of audits, EMS, methodologies for environmental auditing - objectives, audit teams, planning, conducting, reporting, Legal requirements - environmental auditing and requirements of Indian environmental law.

Unit IV

Risk analysis: Definition of risk, environmental risk analysis – risk assessment and risk management, Basic steps in risk assessment – hazard identification. Dose-response assessment, exposure assessment, risk characterization, Risk assessment in EIA.

Suggested readings:

1. Bhanu, T.K.C. and Bhatnagar, V. (2009). *Environmental science and technology*. Campus

books international, New Delhi.

2. Bhardwaj, R.K. (2009). *Environmental reporting & auditing*. Oxford book company, New York
3. Legge, A.H (ed). (2009). *Air quality and ecological impacts: Relating sources to effects*. Elsevier, UK.
4. Morris, P. (ed.) and Therivel, R. (ed.) (2009). *Methods of environmental impact assessment*. Routledge, UK.
5. Nandimath, O.V. (2009). *Handbook of environmental decision making in India: An EIA model*. Oxford University press, UK.
6. Pahuja, S. (2009). *Environmental accounting and reporting: Theory, law and empirical evidence*. New century publication, New Delhi.
7. Smith, J. and Smith, P. (2009). *Environmental modeling: an introduction*. Oxford university press, UK.
8. Theobald, R.H. (ed.) (2008). *Environmental management*. Nova science publishers, USA.

ES 542: Remote Sensing and GIS

1. **Electromagnetic Energy:** Electromagnetic spectrum, image characteristics, remote sensing systems.
2. **Aerial Photographs:** Interaction between light and matter, film technology, characteristics of aerial photographs, stereopairs of aerial photographs.
3. **Black and White Photography:** Panchromatic, IR and UV photography.
4. **Multispectral Images:** colour photography, normal colour, IR and multispectral photography, multispectral scanner images.
5. **Thermal Infrared Images:** Thermal processes and properties, IR detection and imaging technology, characteristics of IR images.
6. **Radar Images:** Aircraft and satellite Radar systems.
7. **Imaging System,** Multispectral scanner, return beam vidicon, thematic mapper, high resolution visible imaging system.
8. **Digital Image Processing:** Image structure restoration and enhancement, information extraction, image processing system.
9. **Remote Sensing Satellites:** Specifications of Landsat, SPOT and IRS satellites.
10. **Applications of Remote Sensing:** Landuse and landcover analysis, resource exploration and environmental monitoring.
11. **Geographical Information System:** GIS techniques, Data representation, Raster, Vector, data capture, spatial analysis with GIS, data modelling, topological modelling, networks, cartographical modelling, map overlays.

References:

1. Curran, P.J. (1988). *Principles of Remote Sensing*. E.L.B.S., Longman Scientific and Technical, Harlow.
2. Sabbins Jr, F.F. (1986). *Remote Sensing: Principles and Interpretation*. WH Freeman & Co., New York.

4. Dhameja, S.K.. *Environmental Engineering and Management*. S.K. Kataria and Sons, New Delhi. 2000
5. Pandey, G.N.. *Environmental Management*. Vikas Pub. House Pvt. Ltd., New Delhi 1997.
6. Saxena, H.M. *Environmental Management*. Rawat Pub., New Delhi 2000.
7. Stavins, R.N., *Economics of the Environment – Selected Readings*. 5th ed. W.W. Nations and Co., New Delhi. 2005
8. Mukherjee, B.. *Environmental Management*. Vikas Pub. House Pvt. Ltd., New Delhi. 1997
9. Kolstad, C.D.. *Environmental Economics*. Oxford University Press. 2000
10. Hussen, A.. *Principles of Environmental Economics*. 2nd ed. Routledge, U.K. 2004
11. Tietenberg, T. 2004. *Environmental and Natural Resource Economics*. 6th ed. Pearson Education.
12. Ravindranath, N.H., Rao, U.K. Natarajan, B. and Monga, P.. *Renewable Energy and Environment – A Policy Analysis of India*. Tata McGraw Hill, New Delhi. 2002
13. Rai, G.D. *Non Conventional Energy Sources*. Khanna Publishers, New Delhi. 1998.
15. Coley, D.. *Energy and Environment Change*. John Wiley and Sons. 2008
16. Quaschnig, V. *Understanding Renewable Energy Systems*. Earthscan Pub Ltd., U.K. 2006.
17. Sukhatme, S.P. *Solar Energy – Principles of Thermal Collection and Storage*. Tata McGraw Hill. 2000.

ES 543: Environment & Energy Management

UNIT-I

Environmental Economics and Management: Planning Levels, physical planning and development Cost-Benefit analysis, methods of economic evaluation of intangible environmental resources; contingent method, travel cost, opportunity cost concept of consumer behaviour, environmental consumerism

Disaster Management: Definition, nature, types and classification of disasters, risk analysis; Disasters - causes and effects; Factors affecting damage- Type, scale, population density, socio-economic status of population, habitation pattern, physiology and climate; Factors affecting mitigation measures- Prediction, preparation, communication, aerial extent, accessibility, population density.

UNIT-II

Planning for disaster mitigation

Floods – River flooding, flood plains, drainage basins, nature and frequency of flooding, flood hazards, urbanisation and flooding, flood hydrographs, flood plain management and control.

Landslides – causes, human use and land slide analysis, determination of stability and safety factor.

Volcanoes – nature, extent and causes of volcanism, volcanic materials, geographic distribution of volcanoes.

Coastal hazards – tropical cyclone, coastal erosion, sea level changes and its impact on coastal areas and coastal zone management.

Earth quakes – causes, intensity and magnitude of earthquakes, geographic distribution of earthquakes zones, seismic waves, travel-time and location of epicentre, nature of destruction, quake resistant buildings and dams.

UNIT-III

Watershed Management: Definition, concepts, principles; Classification by size; Rainfall and runoff; Water balance approach; Water budgeting; Topographic surveying; Water conservation and harvesting methods - Importance and techniques of Rain Water Harvesting; Agriculture and Water management- Participatory Rural Appraisal in watershed Programmes.

Energy Environment: Fossil fuels – classification, composition, physico-chemical characteristics and energy content of coal, petroleum and natural gas.

Sun as source of energy; solar collectors, photovoltaic, solar ponds (12 lectures)

UNIT-IV

Principles of generation of hydroelectric power, tidal, ocean, wind, geothermal energy, nuclear energy – fission and fusion, magneto hydrodynamic power, bio-energy – energy from biomass and biogas

Environmental implication of energy use, Carbon dioxide emissions, air and thermal pollution, radioactive waste and radioactivity from nuclear reactors, impacts of large scale exploitation of solar, wind hydro and ocean energy, Conservation of energy

Suggested Readings

1. Boland, R.G.A. *General Environmental Management*. Sterling Pub. Pvt. Ltd., New Delhi. 1993.
2. Kulkarni, V. and Ramachandra, T.V., *Environmental Management*. Capitol Pub. Co., New Delhi. 2006
3. Aslokar, S.R. and Gopichandran, R. *Preventive Environmental Management- An Indian Perspective*. Foundation Book, New Delhi. 2005.

Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref No : DAA/MRSSTU/ 007

Dated : 26/10/15

Sub: Review of nomenclature of various courses offered by MRSSTU, Bathinda.

It is already in your kind knowledge that notification/09 to 33 dated 07.10.2015 have been issued by MRSSTU, Bathinda for various Board of Studies. It is to inform you that the nomenclature of some of the courses mentioned in these BOS are not in tune with UGC Notification Dated 5th July 2014 and AICTE approval process handbook (2015-16). It is suggested to review these nomenclatures, as per the details given below:

Sr. No.	Board of Studies	Course Nomenclature (notified by MRSSTU, Bathinda)	Course Nomenclature (as per UGC/AICTE)
01	Mechanical Engineering	B.Tech (Automotive Engineeringg)	B.Tech.(Automotive Technology)
02	Mechanical Engineering	M.Tech (Thermal)	M.Tech.(Thermal Engineering)
03	Mechanical Engineering	M.Tech (Production)	M.Tech.(Production Engineering)
04	Hospitality & Tourism Management	B.Sc. (Airline, Tourism & Hospitality Management)	BTTM (Bachelor of Tourism & Travel Management)
05	Hospitality & Tourism Management	B.Sc. (Hotel Mgmt. & Catering Technology) - do	BTM (Bachelor of Tourism & Travel Management) BHMET
06	Commerce & Bussiness Management	Bachelor in Business Administrative	BBA (Bachelor of Business Administrative)
07	Commerce & Business Management	B.Com. (Professional)	B.Com. (Honors)
08	Commerce & Bussiness Management	M.Com. (Professional)	M.Com. (Honors)
09	Commerce & Bussiness Management	Post Graduate Diploma (Management)	Post Graduate Diploma in Management
10	Humanities & Social Studies	B.Sc. (Mass Communications)	BJ (Bachelor of Journalism)
11	Pharmacy	Pharmacy-D	Pharm.D.
12	Pharmacy	Pharmacy (Post Baccalaureate)	Pharm.D. (Post Baccalaureate)
13	Pharmacy	B. Pharmacy	B. Pharm.
14	Pharmacy	M. Pharmacy (Pharmaceutics)	M. Pharm. Pharmaceutics
15	Pharmacy	M. Pharmacy (Pharmacology)	M. Pharm. Pharmacology
16	Pharmacy	M. Pharmacy (Pharmaceutical Chemistry)	M. Pharm. Pharmaceutical Chemistry
17	Pharmacy	M. Pharmacy (Analysis)	M. Pharm. Pharmaceutical Analysis
18	Pharmacy	M. Pharmacy (Pharmacognosy)	M. Pharm. Pharmacognosy
19	Pharmacy	M. Pharmacy (Quality Assurance)	M. Pharm. (Q.A) Quality Assurance

Hon'ble Vice Chancellor MRSSTU, Bathinda

Dean Academic Affairs
MRSSTU, Bathinda

26/10/15

1/1

Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref No: / Reg/Notification/40

Dated: 23-10-15

NOTIFICATION

Consequent upon the approval of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda in its 2nd meeting held on 07-09-2015 vide agenda item no. 2.15, the following **UMC Committee** for Maharaja Ranjit Singh State Technical University, Bathinda is hereby constituted for the tenure of one year i.e. academic year 2015-16.

1. Sh. Gurcharan Singh Dhaliwal
Retd. Additional Session Judge,
P.O. No. 1/3, Adarsh Nagar, Bathinda.
2. Er. Karnail Singh Mann
Retd. Chief Engineer,
Guru Nanak Dev Thermal Plant, Bathinda.
3. Prof. Mohinder Singh Sidhu
Director,
Regional Centre, Punjabi University Campus Rallan.

Sel
Registrar

Endst. No. 4444-4448

Dated: 23/10/15

A copy of the above is forwarded to the following for information & record please.

1. All Concerned.
2. Dean, Academic affairs, MRSSTU, Bathinda.
3. Controller of Examination, MRSSTU, Bathinda.

Sel
23/10/2015
Dy. Registrar (Admn.)

CASE-1: It is to inform you that if a student of 2016 batch or higher of MRSSTU discontinues his/her studies, but wants readmission after some gap. He/she may be allowed readmission by the College Principal/Dean Academic Affairs of University Campus on his/her written request by following the norms as discussed below,

1. If a student has registered in 1st semester or higher semester, but has not registered (deposition of Semester Fee and submission of Registration form) for subsequent semester throughout this semester although he/she is eligible to register, his/her name may be stuck off from rolls of the College/Campus unless he/she has submitted valid medical certificate or any other Certificate stating his/her inability to register for the semester prior to the closure of registration process of the concerned semester.
2. If a student has submitted valid medical certificate or any other Certificate stating his/her inability to register for the semester prior to the closure of registration process of the concerned semester to the satisfaction of the Principal of the College/Dean Academic Affairs of the University Campus, as the case may be, further his/her certificate has been accepted by the officers mentioned above, he/she will be allowed readmission in the semester which he/she earlier failed to register as stated in point 1, along with students of possible subsequent batch. He/she will have to,
 - a) Deposit readmission fee/fine as per University norms,
 - b) Submit an undertaking that the certificate submitted by him/her as stated in point 1, is true to the facts and nothing is hidden. Further he/she has not been involved in any criminal activity during his absence from the College/University Campus.
 - c) He/she will have to complete his/her Degree/Programme with in maximum time allowed to complete it and this period is counted from the session in which admission was granted to him/her.
3. If a student of 2015 batch or lower studying in Affiliated/Constituent College of MRSSTU discontinues his/her studies, but wants readmission after some gap. He/she may be allowed readmission by the College Principal/Dean Academic Affairs of the University Campus on his/her written request by following all the norms as discussed above and after obtaining No Objection Certificate from PTU, Kapurthala for readmission.

CASE-2: If a student has registered for a semester and has completed his attendance requirement in all of his/her Courses, but has not filled his/her End Semester University Examination form, then he/she will be allowed by Controller of Examination of the University to submit the End Semester University Examination form on the recommendation of the Principal of the College/Dean Academic Affairs of the University Campus as and when University rules permit, subject to the following conditions that he/she will have to

- a) Submit an undertaking that he/she has not been involved in any criminal activity during his/her absence from the College/University Campus. He/she will also state the reason for not submitting the End Semester University Examination form within the permissible time.
- b) He/she will have to complete his/her Degree/Programme within the maximum time allowed to complete it and this period is counted from the session in which admission was granted to him/her.
- c) He/she will have to deposit the late fee/fine as per University norms.

MAHARAJA RANJIT SINGH STATE TECHNICAL UNIVERSITY,
DABWALI ROAD, BATHINDA-151001
[Established by Govt. of Punjab vide Act No. 5 of 2015, UGC Act 2(f)]
DEAN ACADEMIC AFFAIRS

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daa.mrsstu@gmail.com

Ref. No.: DAA/MRSSTU/182

Date: 29/2/2016

Your Ref. No.: *NIL*

Date: *NIL*

It is recommended that an Interpretation Committee may be constituted to interpret and to give recommendations in case any doubt / conflict arises in the interpretation of any of the Academic Regulations of MRSSTU, Bathinda, consisting of the following members:

1. Registrar, MRSSTU, Bathinda
2. Dean Academic Affairs, MRSSTU, Bathinda
3. Controller of Examinations, MRSSTU, Bathinda
4. Director College Development Council, MRSSTU, Bathinda
5. Principal MIMIT, Malout
6. Advocate Sh. Sukhdeep Singh Bhinder, # 2376, Sec-65, Phase-11, Mohali.



HON'BLE VICE CHANCELLOR


Dean Academic Affairs 29/2/16
MRSSTU, Bathinda

Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref No: /Reg/Notification/41

Dated: 23-10-15

NOTIFICATION

Sub: Study Scheme & Syllabus for 1st yr students of MRSSTU, Bathinda

In the first meeting of Board of Governors of Maharaja Ranjit Singh State Technical University, Bathinda meeting of MRSSTU, Bathinda held on 15-06-2015, it was decided that the study scheme and syllabus of IKG PTU, Jalandhar shall be followed for 1st year students admitted in 2015 for all courses throughout the degree. Subsequently, the same was conveyed to the Directors / Principals in the meetings with Vice Chancellor held on 28/07/2015 and 11/08/2015 at MRSSTU, Bathinda. It is again reiterated that all students of 1st year (2015 batch) studying in various courses (AICTE or Non-AICTE Courses) in college/ institutes affiliated to MRSSTU, Bathinda or its Constituent College/Institute will be following the study scheme, curriculum & syllabi of IKG PTU, Jalandhar till the completion of their degree. Also, the examination pattern of IKG PTU Jalandhar will be followed for Dec-2015 examinations and subsequent examinations.

However, the date sheet of students of first year of MRSSTU, Bathinda is different from IKG PTU, Jalandhar and is already notified.

Sch
Registrar

Endst. No. 4449-4453

Dated: 23/10/15

A copy of the above is forwarded to the following for information & record please.

1. Dean, Academic affairs, MRSSTU, Bathinda.
2. Director, College Development Council, MRSSTU, Bathinda.
3. Controller of Examination, MRSSTU, Bathinda.
4. Registrar, IKG Punjab Technical University, Bathinda.
5. Director/Principals of all constituted/affiliated colleges of MRSSTU, Bathinda.

Blw
Dy. Registrar (Admn.)

MAHARAJA RANJIT SINGH STATE TECHNICAL UNIVERSITY

Ph. No 0164-2280197, Fax 0164-2280164, Email: reg@mrsstu.ac.in

MRSSTU B.TECH. 1ST YEAR STUDY SCHEME 2016 BATCH & ONWARDS

GROUP-A

B.TECH. 1ST SEMESTER TOTAL CONTACT HRS. = 31 TOTAL CREDITS = 25

Course		Contact Hrs.			Marks			Credits
Code	Name	L	T	P	Internal	External	Total	
BPHY0-101	Applied Physics	3	1	0	40	60	100	4
BMAT0-101	Applied Mathematics-I	4	1	0	40	60	100	5
BHUM0-101	Communicative English	2	1	0	40	60	100	3
BELE0-101	Basics of Electrical Engineering	2	0	0	40	60	100	2
BHUM0-103	Human Values & Professional Ethics	2	0	0	40	60	100	2
BESE0-101	Environmental Science	2	0	0	40	60	100	2
BPHY0-102	Applied Physics Lab.	0	0	2	60	40	100	1
BHUM0-102	Communicative English Lab.	0	0	2	60	40	100	1
BELE0-102	Basics of Electrical Engineering Lab.	0	0	2	60	40	100	1
BMFP0-101	Manufacturing Practice	1	0	6	60	40	100	4
Total 6 Theory & 4 Lab. Courses		16	3	12	480	520	1000	25

B.TECH. 2ND SEMESTER TOTAL CONTACT HRS. = 31 TOTAL CREDITS = 25

Course		Contact Hrs.			Marks			Credits
Code	Name	L	T	P	Internal	External	Total	
BCHM0-101	Applied Chemistry	3	1	0	40	60	100	4
BMAT0-201	Applied Mathematics-II	4	1	0	40	60	100	5
BMEE0-101	Elements of Mechanical Engineering	3	1	0	40	60	100	4
BECE0-101	Basics of Electronics Engineering	2	0	0	40	60	100	2
BCSE0-101	Computer Programming	3	0	0	40	60	100	3
	Engineering Drawing	1	0	4	40	60	100	3
BCHM0-102	Applied Chemistry Lab.	0	0	2	60	40	100	1
BECE0-102	Basics of Electronics Engineering Lab.	0	0	2	60	40	100	1
BCSE0-102	Basics of Computer Programming Lab.	0	0	4	60	40	100	2
Total 6 Theory & 3 Lab. Courses		16	3	12	420	480	900	25

Note: Marks of 2 Week Training during Summer Vacation will be included in 3rd Semester

Total Marks in Group-A B.Tech. First Year = 1st Semester 1000 + 2nd Semester 900 = 1900

Total Credits in Group-A B.Tech. First Year = 1st Semester 25 + 2nd Semester 25 = 50

GROUP-B

B.TECH. 1ST SEMESTER TOTAL CONTACT HRS. = 31 TOTAL CREDITS = 25

Course		Contact Hrs.			Marks			Credits
Code	Name	L	T	P	Internal	External	Total	
BCHM0-101	Applied Chemistry	3	1	0	40	60	100	4
BMAT0-102	Applied Mathematics-I	4	1	0	40	60	100	5
BMEE0-101	Elements of Mechanical Engineering	3	1	0	40	60	100	4
BECE0-101	Basics of Electronics Engineering	2	0	0	40	60	100	2
BCSE0-101	Computer Programming	3	0	0	40	60	100	3
	Engineering Drawing	1	0	4	40	60	100	3
BCHM0-102	Applied Chemistry Lab.	0	0	2	60	40	100	1
BECE0-102	Basics of Electronics Engineering Lab.	0	0	2	60	40	100	1
BCSE0-102	Basics of Computer Programming Lab.	0	0	4	60	40	100	2
Total 6 Theory & 3 Lab. Courses		16	3	12	420	480	900	25

B.TECH. 2ND SEMESTER TOTAL CONTACT HRS. = 31 TOTAL CREDITS = 25

Course		Contact Hrs.			Marks			Credits
Code	Name	L	T	P	Internal	External	Total	
BPHY0-101	Applied Physics	3	1	0	40	60	100	4
BMAT0-201	Applied Mathematics-II	4	1	0	40	60	100	5
BHUM0-101	Communicative English	2	1	0	40	60	100	3
BELE0-101	Basics of Electrical Engineering	2	0	0	40	60	100	2
BHUM0-103	Human Values & Professional Ethics	2	0	0	40	60	100	2
BESE0-101	Environmental Science	2	0	0	40	60	100	2
BPHY0-102	Applied Physics Lab.	0	0	2	60	40	100	1
BHUM0-102	Communicative English Lab.	0	0	2	60	40	100	1
BELE0-102	Basics of Electrical Engineering Lab.	0	0	2	60	40	100	1
BMFP0-101	Manufacturing Practice	1	0	6	60	40	100	4
Total 6 Theory & 4 Lab. Courses		16	3	12	480	520	1000	25

Note: Marks of 2 Week Training during Summer Vacation will be included in 3rd Semester

Total Marks in Group-B B.Tech. First Year = 1st Semester 900 + 2nd Semester 1000 = 1900

Total Credits in Group-B B.Tech. First Year = 1st Semester 25 + 2nd Semester 25 = 50

Punjab Institute of Technology, Mansa

(A Constituent Institute of Maharaja Ranjit Singh State Technical University, Bathinda)

Note

Ref. No.: PITM/16/1437

Date: 02/03/2016

Sub.:- Regarding approval to start B.Sc (Non-Medical) Co-Educational Courses at PIT, Mansa.

Punjab Institute of Technology, Mansa started in year 2011 in the Transit campus at NM Govt. College, Mansa. In the first year admission of class 10+1 (Non-Medical) under B.Tech 6-year Integrated program was made. A record of admissions up to till date is as under:

Year →	2011-12		2012-13		2013-14		2014-15		2015-16	
Class	10+1	10+2	10+1	10+2	10+1	10+2	10+1	10+2	10+1	10+2
No. of Students	27	-	28	21	16	23	9	14	0	9
Total	27		49		39		23		9	

As PIT, Mansa is running in Transit campus so due to the non availability of its own campus the students after completing their 10+2 class are shifted to GZS PTU Campus Bathinda to pursue their B.Tech course.

So, after analyzing the complete details of admissions and present available infrastructure at transit campus, It is proposed that Co-educational B.Sc. in Non-Medical stream with 30 seats may be started in PIT, Mansa. Also the said course is as per the demand of the area. No. of seats may be increased up to 60 after getting the response from the area.

It is further stated that at PIT, Mansa the available infrastructure is Two lecture theaters out of which one is without fixed furniture, one Physics lab, one Chemistry lab & one Computer lab, So, the said course can be started very easily at the Transit campus of PIT, Mansa i.e., NM Govt. College, Mansa.

Submitted for kind approval.

Hon'ble Vice Chancellor
MRSSTU, Bathinda

*Dean (Off) to put up w
Ac mem of
[Signature]*

[Signature]
02/03/16
Director
PIT, Mansa

**MRSSTU INTEGRATED CERTIFICATE-DIPLOMA-DEGREE PROGRAMME &
PG CERTIFICATE COURSE IN PHARMACY**

To introduce a Six Year Integrated Certificate-Diploma-Degree (ICDD) Programme in 9 areas in Engineering in the Constituent Colleges of the University and four PG Certificate Courses in Pharmacy in Affiliated Colleges from the Academic Session 2016-17.

1. The objectives of the ICDD Programmes are:
 - a) To produce technically skilled manpower in appropriate areas.
 - b) To provide the highest level of education in latest technological streams to produce competent technical & supervisory level manpower.
 - c) To be a role model of Certificate, Diploma and Degree level educational Institutions in the country.
 - d) To inculcate concept of Intellectual Skills, Courage and Integrity, Awareness and Sensibility to the technical needs and aspirations of the rural/urban societies and industries in the students.
 - e) To introduce a Programme for the semi-skilled rural and urban citizens in order to provide them opportunity to sharpen their skills and acquire technical competence to contribute in development of the industry and the country.
2. The first year of the Programme shall be a Certificate Programme, whereby the practical skills of the semi-skilled worker shall be sharpened to transform him/her from a semi-skilled worker to the stage of skilled worker. The One Year Course shall be a Certificate level Programme and the student shall be given the choice of leaving the ICDD at this stage.
3. The next stage shall be of Two-Year duration, where he/she shall be introduced with the basic sciences and fundamental theoretical concepts of the technical field related with his/her skill acquired in the first year. The emphasis will be on developing the practical knowledge of the student and introducing him to the fundamental theoretical concepts in his/her technical area. The basics of sciences shall also be included in the curriculum. This module shall be a Diploma level Programme. He shall be awarded Diploma in the field of the Two Year Course completed by him. The student shall be given the choice of leaving the ICDD at this stage also.
4. The last stage of the ICDD Programme shall be the Degree level, Three Year Programme. The student who completes his Certificate and Diploma level will be allowed to join the relevant B.Tech. Engineering Programme in the second year of B.Tech. as a LEET student. He then, shall be able to complete the B.Tech. Programme in three years.
5. The list of Certificate-Diploma-Degree Programmes proposed to be started are as listed below:

Sr.No.	Certificate Programme	Corres. Diploma Programme	The relevant B. Tech. Programme
1.	Servicing and Maintenance of Electronic Instruments	Electronics & Instrumentation Engg.	Electronics & Instrumentation Engg.

**MRSSTU INTEGRATED CERTIFICATE-DIPLOMA-DEGREE PROGRAMME &
PG CERTIFICATE COURSE IN PHARMACY**

2.	Electrical Repair	Electrical Engg.	Electrical Engg
3.	Masonry	Civil Engg.	Civil Engg
4.	Welding	Welding Technology	Mechanical Engg.
5.	Auto and Farm Equipment Repair	Automobile Engg.	Automobile Engg.
6.	Tool & Die Technology	Tool & Die Technology	Mechanical Engg.
7.	Air-conditioning Mechanic	Refrigeration & Air-conditioning	Mechanical Engg.
8.	Computer Operator	Information Technology	Information Technology
9.	Food Processing	Food Technology	Food Technology

6. Further, it is proposed to include four PG Certificate Programmes in Pharmacy related Skill Development fields. The graduates in relevant fields shall be eligible to join these Programmes. The proposed Programmes are listed as under:

Sr. No.	The Certificate Programme Name
1.	Skill Certification in Hospital Administration
2.	Skill Certification in Pharmaceutical Analysis & Quality Control
3.	Skill Certification in Pharma-covigilance & Clinical Trials
4.	Skill Certification in Pharmaceutical Marketing & Entrepreneurship

**Maharaja Ranjit Singh State Technical University,
Dabwali Road Bathinda.**

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

Ref No : / _____

Dated : _____

OFFICE ORDER

The following **Result Clearance Committee** is constituted which shall look into the subject wise pass percentage of marks and overall results of different disciplines compare the result with that of previous years and suggest modernization of marks in case required.

The recommendations of the committee shall be put up to the hon'ble Vice Chancellor for approval before the final notification of result.

1. Dr. Jasbir Singh Hundal, Registrar
2. Dr. Gursharan Singh, Dean Academic Affairs
3. Dr. A.K. Goel, Director College Development Council
4. Prof. Karanvir Singh, Controller of Examination, Convener
5. Prof. Harish Kumar Garg, Dy. Controller of Examination

The orders are issued after the approval of competent authority.

Shiv
07/3/2016
Dy. Registrar (Estb.)

Endst. No. _____

Dated: _____

A copy of the above is forwarded to the following for information & record please:

1. P.A.to Vice Chancellor: for kind information of Vice Chancellor.
2. All the concerned.

Shiv
07/3/2016
Dy. Registrar (Estb.)

**ITEM NO. 01.38 TO DELIBERATE ON THE VALIDITY OF Ph.D DEGREE OF
Ph.D. STUDENTS ENROLLED FOR Ph.D DEGREE WITH PTU
KAPURTHALA, BUT PURSUING Ph.D DEGREE RESEARCH
WORK UNDER SUPERVISORS EMPLOYED IN
CONSTITUENT/AFFILIATED COLLEGES OF MAHARAJA
RANJIT SINGH STATE TECHNICAL UNIVERSITY, BATHINDA**

As per the UGC letter, any Ph.D/M.Phil degree awarded by a University under the supervision of a supervisor who is not a regular faculty member of the University or its Affiliated College/Institute would be in violation of UGC (Minimum Standards and Procedure for award of M.Phil/Ph.D Regulations 2009).

There are Ph.D students who have enrolled with PTU Kapurthala for Ph.D Degree, when there was only one State Technical University in Punjab and their research supervisors were regular faculty members of Constituent/ Affiliated Colleges of this University, but their supervisors are now regular faculty members of Colleges/Institutes of Maharaja Ranjit Singh State Technical University, Bathinda, since 1st July, 2015.

In the light of the above said UGC regulations, the validity of the Ph.D. Degrees of these Ph.D students is at stake. It is suggested to deliberate on this issue and find out an amicable solution to this problem. A number of representations received from Research Supervisors are appended in **APPENDIX-XXX.**

The matter is placed before the Academic Council for deliberation.

To

Dean Academic Affairs,
Maharaja Ranjit Singh State Technical University,
Bathinda.

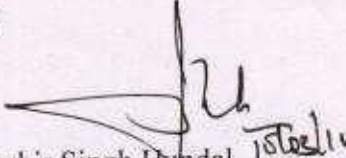
Sub: Request of shifting Ph D students from IKGPTU, Jalandhar to MRSSTU, Bathinda to abide by UGC (Minimum standards and procedure for award of MPhil/PhD) Regulations 2009.

I, Jasbir Singh Hundal, Professor cum Campus Director of GZSCCET, is supervising following students registered with IKGPTU in Physics under Applied Sciences.

S No	Name of the student	Registration No
1	Lakhhbir Singh	1011009
2	Baljinder Kaur	1011007
3	Lucky Goyal	1011003
4	Tarun Garg	1511002
5	Rajbir Kaur	1311023

I am a regular faculty member of GZSCCET, Bathinda which is now under jurisdiction of MRSSTU, Bathinda. Since MRSSTU and IKGPTU are the two universities established by different acts of Punjab Legislature and are independent from each other. **Therefore, it is quite natural for the current doubt to arise if it will be the violation of UGC (Minimum standards and procedure for award of MPhil/PhD) Regulations 2009 for PhD degree from IKGPTU under the supervision of a faculty member from MRSSTU who is not the regular faculty member of IKGPTU.**

So it is requested to shift my students to MRSSTU, Bathinda so that the Ph D degree thus earned may be valid and issued not in violation of UGC (Minimum standards and procedure for award of M.Phil /PhD) Regulations 2009 (Copy attached).


Dr. Jasbir Singh Hundal
Professor, Department of Applied Physics,
Giani Zail Singh Campus CET, Bathinda
Supervisor I D (allotted by IKGPTU):

Dean R.I.C.



AKVSM
Circulate to all colleges
6/8/15

1937
18-08-2015
विश्वविद्यालय अनुदान आयोग
University Grants Commission
(मानव संसाधन विकास मंत्रालय, भारत सरकार)
(Ministry of Human Resource Development, Govt. of India)
महावृत्तमार्ग इफ्ट मार्ग, नई दिल्ली-110002
Bahadur Shah Zafar Marg, New Delhi-110002
Ph.: 011-23239337, 23236288,
Fax: 011-23238858, email: jpsandhu.ugc@nic.in

Prof. Dr. Jaspal S. Sandhu
MBBS, MS (Ortho), DSM, FACS, FASM, FAFSM, FFMS, FAMS
Secretary

18/8/15
Director/CD
Dean (R.I.C.)

July, 2015
797
5/8/15

D.O No F.10-6/2011(PS) Misc.

Dear Sir/Madam,

It has come to the notice of the UGC that some Universities are hiring the services of the Supervisors who do not happen to be the regular teachers of the Universities or its affiliated PG Colleges/Institutes awarding the M.Phil/Ph.D. degree. This practice is in violation of UGC (Minimum standards and procedure for award of M.Phil/Ph.D. Degree) Regulations, 2009.

The following clarification is, therefore, issued in this regard:

"Universities shall allocate the supervisor from amongst the regular faculty members in a department or its affiliated PG Colleges/Institutes depending on the number of students per faculty member, the available specialization among the faculty supervisors and the research interest of the student. It is further clarified that any Ph.D./M.Phil degree awarded by a University under the supervision of a supervisor who is not a faculty member of the University or its affiliated PG Colleges/Institutes would be in violation of UGC (Minimum standards and procedure for award of M.Phil./Ph.D.) Regulations, 2009."

This may also be brought to the notice of the Colleges/Research Institutions affiliated to your University. Any violation of the Regulation of the UGC will be viewed very seriously by the UGC.

With kind regards,

Yours sincerely,

(Jaspal S. Sandhu)



Dean (Acad) / Deans
Dean (R.I.C.)
Reonstron

The Vice-Chancellor
Punjab Technical University
Jalandhar-Kapurthala Highway
Near Pushpa Gujral Science City
Kapurthala-1446-1
Punjab

This letter is concerned with RIC Deptt.
2/CD
Director - CD

Balwant Singh - II
to discuss w/ NA
6/8/15

To

The Registrar,
MRSSTU, Bathinda.

Sub: Regarding Fate of Ph.D. Students who have enrolled/registered with PTU Kapurthala for Ph.D. Degree, but their Research Supervisors are employed in Constituent/Affiliated Colleges of MRSSTU, with reference to UGC (Minimum standards and procedure for award of M.Phil/PhD) Regulations 2009

Sir,

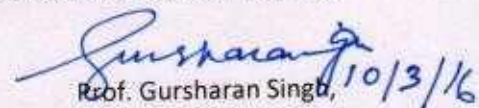
It is to inform you that I am supervising (as Research Supervisor) the following students who have enrolled/registered with IKGPTU, Jalandhar for Ph.D. Degree in the Chemistry discipline under Applied Sciences stream.

S No	Student	Registration No
1	Mr. Vikas Mangla	1312002
2	Mrs. Mamta Goel	1312005
3	Mrs. Kavita Singla	1312012
4	Miss Deepika Nagpal	1312013
5	Mr. Rakesh Kumar	1412011

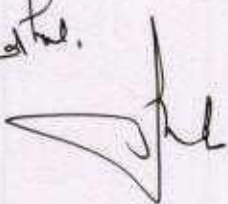
It is to inform you that when these students applied for enrolment for Ph.D. Degree with PTU Kapurthala, my College was a constituent College of PTU Kapurthala. However, since 01.7.2016, this College is a Constituent College of MRSSTU, Bathinda. It is apprehended that the degrees to be conferred on these students will not be valid, since it will seem to be violation of UGC (Minimum standards and procedure for award of M.Phil/Ph.D Regulations 2009 for PhD degree, copy enclosed) that a student earns PhD degree from IKGPTU, Jalandhar under the supervision of a faculty member from MRSSTU, Bathinda who is not the faculty member of IKGPTU, Jalandhar.

It is suggested that this issue may be discussed in Academic Council Meeting to be held on 11.3.2016. I am of the opinion that these students may be shifted from PTU Kapurthala to MRSSTU, Bathinda with their current Status.

Thanking you


Prof. Gursharan Singh, 10/3/16

Department of Applied Chemistry
Research Supervisor

Pl. do the needful.


BAA
MRSSTU

4/6



daa mrsstu <daa.mrsstu@gmail.com>

Ph.D. Candidates registered with PTU

1 message

Dr. Ashish Baldi <baldiashish@gmail.com>

Thu, Mar 10, 2016 at 2:23 PM

To: daa mrsstu <daa.mrsstu@gmail.com>, deanrmd.mrsstu@gmail.com

Dear Sir/Madam,

This is to bring under your kind attention that before establishment of MRSSTU, some of the Ph.D. students are registered with PTU at our institute.

University authorities are requested to work out any possibility to transfer these candidates to MRSSTU as per their current status at PTU.

This is in light of the UGC requirements that the supervisor and Ph.D. student should be in the same affiliating University. If the students remains with PTU, it may result in some problem regarding their Ph.D. degree, awarded to them. Please take an appropriate action as per regulating guidelines.

Yours sincerely,

Dr. Ashish Baldi**Professor & Principal,****I.S.F. College of Pharmacy**

Ferozpur G.T. Road, Moga, 142001, Punjab

Dean, Faculty of Pharmacy &**Chairman, Board of Studies-Pharmacy,****Maharaja Ranjit Singh State Technical University, Bathinda (Pb)**

Mobile: +91-8968423848

Phone. No. 01636-324200,324201

Fax: 01636-239515

Email :- baldiashish@gmail.com

Website :- www.isfcp.org

ISFCP-Adjudged among "Top-5 Best Pharmacy Institute in India" by AICTE-CII consecutively for 2013, 2014 and 2015**ISFCP-Awarded as "Best Pharmacy College in Punjab" by Punjab Technical University for 2014****"ISFCP- Celebrating 31 years of Excellence in Pharma Education & Research"**

5/6

Ref No. Chem/16/147

Date-10-03-2016

To

Dean Academics,

MRSSTU, Bathinda.

Sub: Request for shifting of Ph D students from IKGPTU, Jalandhar to MRSSTU, Bathinda to fulfill UGC (Minimum standards and procedure for award of M.Phil/PhD) Regulations 2009

Respected sir,

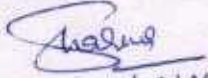
I, Seema Sharma, Associate Professor, Deptt. of Applied Chemistry, GZSCCET, am supervising the following students registered with IKGPTU, Jalandhar in the Chemistry discipline under Applied Sciences stream.

S No	Name of the student	Registration No
1	Savita Rani	1312015
2	Subhash Chander	1412001
3	Gurpreet Kaur	1412015

I am a regular faculty member of GZSCCET, Bathinda which is now a constituent college of MRSSTU, Bathinda. Since MRSSTU and IKGPTU are the two universities established by different acts of Punjab Legislature and therefore are independent from each other. **Therefore, it seems as violation of UGC (Minimum standards and procedure for award of M.Phil/PhD Regulations 2009 for PhD degree, copy enclosed) that a student earns PhD degree from IKGPTU, Jalandhar under the supervision of a faculty member from MRSSTU, Bathinda who is not the faculty member of IKGPTU, Jalandhar.**

So, it is requested to shift my students to MRSSTU, Bathinda so that the Ph D degree earned may not be in violation of UGC (Minimum standards and procedure for award of M.Phil/PhD) Regulations 2009 so as to avoid any problem regarding validity of PhD degree in future

Thanking you


10/03/16
Dr Seema Sharma
Associate Professor
Deptt. of Applied Chemistry
Supervisor ID-11120031(allotted
by IKGPTU, Jalandhar)