

# MEMORANDUM OF UNDERSTANDING

BETWEEN

## WAYNE STATE UNIVERSITY

(DETROIT, MICHIGAN, UNITED STATES)

AND

## MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY

(BATHINDA, PUNJAB, INDIA)

**Maharaja Ranjit Singh Punjab Technical University (MRSPTU)** and **Wayne State University (WSU)** seek to implement opportunities for joint scholarship; to facilitate academic cooperation; to develop research collaborations; and to promote international understanding. To these ends, the institutions agree to foster and promote international cooperation in education and research between the two universities. This *Memorandum of Understanding (MOU)* provides a general framework for the development of such collaboration. A subsequent *Implementation Agreement* will specify institutional activities which will be agreed upon and developed by WSU and MRSPTU at a future date.

- I. Based upon principles of international educational exchange (mutual respect and benefit, cooperation, collaboration, and understanding), WSU and MRSPTU agree to explore the following collaborative activities:
  - A. Exchange of students;
  - B. Exchange of faculty, post-doctoral fellows and research scholars;
  - C. Exchange of scientific materials, publications and information;
  - D. Development of joint scientific and/or technological research and meetings for education and research; and
  - E. The recruitment of students to degree seeking programs in the institutions.
- II. Specific activities to be carried out under this MOU will be stated in subsequent and corresponding *Implementation Agreements*, which once approved by both institutions, will be attached as addenda to this MOU.
- III. This *Memorandum of Understanding* will be considered effective for five years, beginning on the date it is signed by official representatives from both institutions. Either institution may terminate the MOU at any time, but both institutions agree that if the agreement is terminated, due consideration will be given to avoid harm to students in a collaborative program currently under way.
- IV. This MOU is an expression of good will and a statement of good intentions between MRSPTU and WSU, and it is designed to facilitate and develop a genuine and mutually beneficial exchange/research relationship between the two institutions.

OFFICE OF THE  
CHANCELLOR  
WAYNE STATE UNIVERSITY  
DETROIT, MICHIGAN 48202



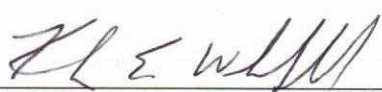
- V. Revisions to the MOU and *Implementation Agreements* may be made upon mutual consent of both institutions.
- VI. The administration of this MOU shall be the joint responsibility of the Associate Vice President for Educational Outreach and International Programs at Wayne State University, and Dean (P&D) at MRSPTU. All notices shall be in writing and directed to these individuals as follows:


**At WSU:** Ahmad M. Ezzeddine  
Associate Vice President  
Educational Outreach and International Programs  
Wayne State University  
4045 Faculty/Administration Building  
656 W. Kirby  
Detroit, MI 48202  
USA  
Phone: (313) 577-8968  
Fax: (313) 577-5666  
a.m.ezzeddine@wayne.edu

**At MRSPTU:** Buta Singh Sidhu  
Dean Planning and Development  
Maharaja Ranjit Singh Punjab Technical University  
Bathinda, Punjab, India-151001  
Phone: +91-9501109002  
Email: dean-pnd@mrsptu.ac.in


Any MOU additions, changes, or deletions must be approved by the representatives of both universities as shown above. This MOU is agreed upon in good faith and signed this day by:

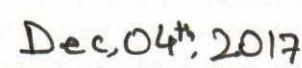
**For Wayne State University:**

  
Keith Whitfield, PhD  
Provost

  
Date

**For MRSPTU:**

  
Dr. Jasbir Singh Hundal  
Registrar

  
Date

Registrar  
Maharaja Ranjit Singh  
Punjab Technical University, Bathinda

FORM APPROVED  
pg  
18042017  
OFFICE OF THE  
GENERAL COUNSEL



## Cooperation Agreement

*Wayne State University*

*And*

*Maharaja Ranjit Singh Punjab Technical University*

This Agreement is made between Maharaja Ranjit Singh Punjab Technical University (hereinafter referred to as MRSPTU) and Wayne State University, USA, (hereinafter referred to as WSU) after fully communication and serious negotiation. And on this 4th day of Dec., 2017 the parties agree as follows:

### 1. Agreement and variation

- 1.1. MRSPTU and WSU wish to establish a collaborative education program defined as a 1 + 1 Dual Master's Degree Program (hereinafter referred to as DMP) involving qualified students admitted to a Master's program to MRSPTU. Minimum enrollment is expected to be 10 students each year. After successfully completing the first (1) year of the MS curriculum at MRSPTU, students will be accepted into the College of Engineering at WSU according to their program majors (subject to all applicable WSU College of Engineering policies of admission procedures and standards). Upon successful completion of the required curriculum, students will be awarded a Master's degree of MRSPTU and of WSU.
- 1.2. The Parties have agreed that the collaborative education program will be conducted in accordance with the terms and conditions set out in this Agreement.
- 1.3. No agreement or understanding varying or extending this agreement shall be legally binding upon either party unless specified in writing and signed by both Parties. Parties may agree to modify the agreement in writing to the extent that it is inconsistent. This being so, the later agreement is the one which is binding.



## Cooperation Agreement between WSU and MRSPTU

### 2. The Program

**2.1** The academic program of DMP will be implemented and administered in two phases. During Phase I, MRSPTU and WSU will jointly admit students as candidates for study at MRSPTU under the DMP, and these students will study at MRSPTU to complete the first (1) of a two (2) year Master's Degree programs. Qualified students will be recommended by MRSPTU, then evaluated and accepted by WSU in accordance with WSU College of Engineering's policies of admission, procedures, and standards. Accepted students will enter Phase II of the Program. In Phase II, students will continue their studies in Master's Degree programs at WSU following the approved curricula. Each successful student will receive a Master's degree from MRSPTU and a Master's degree from WSU.

#### **2.1.1** Admission Requirements

- Bachelors degree with specialization in Engineering with a B average or better, or if applicant is in the upper quartile of the class;

**2.2** The collaborative DMP will comprise two phases:

#### **Phase I**

- 2.2.1** One year of study at MRSPTU during which time the students will complete required courses in a specified curriculum at MRSPTU as well as extra English language classes to achieve the language proficiency required by WSU for entry.
- 2.2.2** During first year (Phase I) of study at MRSPTU, students are expected to complete at least 12 credit hours equivalent of the WSU MS degree curricula in engineering.
- 2.2.3** For English language proficiency, students must have at least a TOEFL score of iBT 79 or an IELTS score of 6.5. Students with lower scores may receive conditional admission, requiring that they enroll in coursework at WSU's English Language Institute. See Appendix II for English course requirements.
- 2.2.4** Students who wish to proceed to Phase II will be assessed by the Graduate Admissions Committee in the College of Engineering to determine their



## **Cooperation Agreement between WSU and MRSPTU**

qualification for entry to the WSU program. The College will evaluate them in the same manner as other international students wishing to enroll at WSU. Students who maintain a GPA of 3.0 or higher and/or are in the top quartile of their class during the first (1) year of DMP study at MRSPTU will be considered for admission.

- 2.2.5** Students who pass the assessment process in 2.2.4 and meet all requirements of Phase I will be admitted to study at WSU under the DMP. WSU will provide an official admission letter to assist their application for the student visa to continue their education at WSU.
- 2.2.6** Once students receive their visas and meet all WSU requirements of enrollment, they will be permitted to enroll in the College of Engineering at WSU.

### **Phase II**

- 2.2.7** WSU will perform an assessment of all the applicants recommended by MRSPTU at the end of Phase I and offer admission to students meeting WSU's admission standards and the standards set forth by the College of Engineering. Students who fail the assessment or are unable to obtain a student visa to the USA will continue their studies at MRSPTU.
- 2.2.8** After completion of Phase I and successfully obtaining a student visa, students will transfer to WSU as graduate students under this Agreement to start Phase II.
- 2.2.9** Students in Phase II will be afforded all of the usual privileges of full time international students studying at WSU in accordance with all applicable laws and regulations.
- 2.2.10** Up to 12 credits of successfully-completed DMP course work taken during the first year at MRSPTU may be counted toward a Master's degree in the College of Engineering at WSU.
- 2.2.11** The second year at WSU (Phase II), students must complete 20 credit hours of course work OR 12 credit hours of course work and 8 credit hours of Master's Thesis Research.



## **Cooperation Agreement between WSU and MRSPTU**

### **3. The Tuition and Fees**

- 3.1** Student fees for Phase I studies will be established and collected by MRSPTU and WSU shall have no claim against those fees.
- 3.2** Students in Phase II will be responsible for all costs to study at WSU. The cost shall include travel between India and the United States, room and board, insurances and all of the prescribed fees to be collected by WSU. The base fees for Phase II are those published by WSU for International students. These fees may be adjusted at the sole discretion of WSU. (Please refer to **Appendix I** for estimated cost for the program).
- 3.3** Up to five (5) students in Phase II are eligible for Graduate School Dean's Tuition Merit Scholarship which will be applied towards tuition.
- 3.4** WSU will have no claim against fees collected by MRSPTU. WSU waives all rights to commission on student fees paid to MRSPTU.
- 3.5** MRSPTU will have no claim against fees collected by WSU. MRSPTU waives all rights to commission on student fees paid to WSU.

### **4. Term and Termination**

- 4.1** This Agreement commences on the date of the last signature by a party to the Agreement. The duration of the agreement is five years.
- 4.2** In the fifth year after commencement of the Agreement, the parties will undertake a joint evaluation and the agreement will continue to be effective for another term of 5 years.
- 4.3** This agreement may be terminated by a party serving on the other party at least 6 month's prior written notice. If the termination date falls during a phase of the Program, the agreement will be terminated after the completion date of that phase of the Program.

### **5. Controlling Laws**

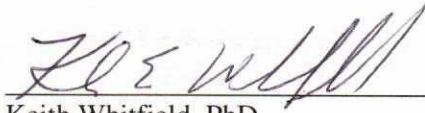
- 5.1** Before resorting to external dispute resolution mechanisms, the Parties shall attempt to settle by negotiation any dispute in relation to this Agreement.
- 5.2** At all times while WSU is to perform under this agreement WSU's obligation shall be subject to and be controlled by the laws of the United States and the State of Michigan.



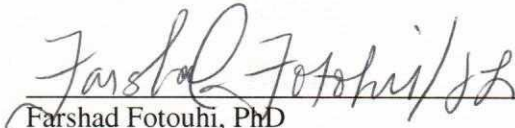
## Cooperation Agreement between WSU and MRSPTU

At all times while MRSPTU is to perform under this agreement MRSPTU's obligation shall be subject to and be controlled by the laws of India.

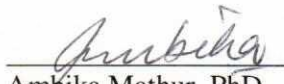
**For Wayne State University:**

  
Keith Whitfield, PhD  
Provost

11/15/17  
Date

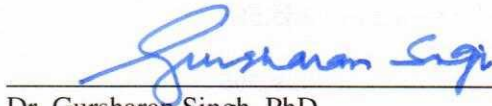
  
Farshad Fotouhi, PhD  
Dean, College of Engineering

11/14/17  
Date

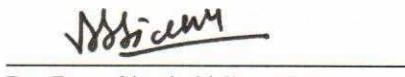
  
Ambika Mathur, PhD  
Dean, Graduate School

11/6/2017  
Date

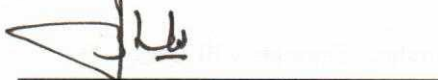
**For Maharaja Ranjit Singh Punjab Technical University**

  
Dr. Gursharan Singh, PhD  
Dean Academic

December 04, 2017  
Date

  
Dr. Buta Singh Sidhu, PhD  
Dean, (Planning & Development)

December 04, 2017  
Date

  
Dr. Jasbir Singh Hundal, PhD  
Registrar

Dec. 04<sup>th</sup> 2017

Registrar  
Maharaja Ranjit Singh  
Punjab Technical University, Bathinda

FORM APPROVED  
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OFFICE OF THE  
CHIEF OF THE



## Cooperation Agreement between WSU and MRSPTU

### APPENDIX I: Estimated Expenses\*

(2017-18)

#### TUITION

##### YEAR 2

	Without Scholarship	with Graduate School Dean's Merit Scholarship
Fall Semester (10 Cr. Hr)	\$15,678	\$ 12,678
Winter Semester (10 Cr. Hr)	\$15,678	\$ 12,678
TOTAL Cr. Hr. Year 2	20	
TOTAL YEAR 1 (Tuition)	<b>\$31,356</b>	<b>\$25,356</b>

#### **COST of Living on Campus per year**

Room and Board	<b>\$ 9,026</b>
Books & Supplies	<b>\$ 1,122</b>
Miscellaneous	<b>\$ 3,167</b>
Health Insurance	<b>\$ 834</b>
TOTAL for one year	<b>\$14,149</b>

TOTAL EXPENSES for 1 YEAR (tuition, room and board and health insurance) **\$45,505**

TOTAL EXPENSES for 1 YEAR (Dean's Merit Scholarship for tuition, Room and board and health insurance) **\$39,505**

\*The figures provided above are estimates, based on the 2017-18 tuition rates. Students will always be charged the currently published tuition for a given year, available here:  
<http://reg.wayne.edu/students/tuition.php>



## Cooperation Agreement between WSU and MRSPTU

### APPENDIX II:

#### English Language Requirements for Admission

Applicants must have at least a TOEFL score of 17 (iBT\*) to be eligible for the 1+1 program. WSU will require students with a TOEFL score below 79 to enroll at the English Language Institute (ELI). English course requirements for participating 3+2 students will be as follows:

- **79 or above:** Direct admission to their academic program with no additional English coursework required.
- **75-78:** Direct admission to their academic program with required enrollment in one ELI course per semester until they reach a score of 79.
- **17-74:** Conditional admission through ELI with required full-time ELI enrollment until TOEFL score of 75 is achieved. At that point, students may begin to take academic coursework in addition to one ELI course.

For a summary of these requirements (including estimated time in ELI), please refer to the chart below:

TOEFL Score Range (listed in iBT)	Regular Admission	Admission with ELI	Conditional Admission
79 or above	Direct admission to academic program; no additional English coursework required.		
75-78		One ELI course in addition to academic coursework	
61-74			One full-time semester of ELI
17-60			Two or more full-time semesters of ELI

\*All scores are listed in iBT format, but WSU accepts equivalent TOEFL scores in the PBT or CBT formats as well.





**Cooperation Agreement**

**Wayne State University**

*and*

**Maharaja Ranjit Singh Punjab Technical University**

This Agreement is made between Maharaja Ranjit Singh Punjab Technical University, Bathinda, Punjab, India(hereinafter referred to as MRSPTU) and Wayne State University, Detroit, Michigan, USA, (hereinafter referred to as WSU) on this 4th day of Dec. 2017. The parties agree as follows:

**1. Agreement and variation**

- 1.1. MRSPTU and WSU wish to establish a collaborative education program defined as a Transfer Student Program (hereinafter referred to as TSP). After successfully completing the first three (3) years of their undergraduate curriculum in engineering at MRSPTU, qualified students will be accepted into the appropriate department in the College of Engineering at WSU (subject to all applicable policies of admission procedures and standards of the College). Under TSP, for the next two (2) years, students will finish a required training curriculum to qualify for their bachelor's degree awarded at MRSPTU and a Master's degree to be awarded by WSU.
- 1.2. The Parties have agreed that the collaborative education program will be conducted in accordance with the terms and conditions set out in this Agreement.
- 1.3. No agreement or understanding varying or extending this agreement shall be legally binding upon either party unless specified in writing and signed by both Parties. Parties may agree to modify the agreement in writing to the extent that it is inconsistent. This being so, the later agreement is the one which is binding.



## 2. The Program

**2.1** The academic program of TSP will be implemented and administered in two phases. During Phase I, MRSPTU will select students as candidates for study at WSU under the TSP, who will study at MRSPTU to complete the first three (3) of a four (4) year Bachelor's Degree program in engineering. The qualified students as recommended by MRSPTU and evaluated and accepted by WSU in accordance with WSU's College of Engineering will enter Phase II of the Program. In Phase II, they will continue their studies in an appropriate discipline at WSU following the approved curricula. Each successful student will receive a Bachelor's degree from MRSPTU and a Master's degree from WSU.

**2.2** The collaborative TSP will comprise two phases:

### Phase I

- 2.2.1** Phase I will consist of three years of study, during which students will complete required courses in a relevant discipline at MRSPTU as well as extra English language classes and achieve the language proficiency required by WSU for entry.
- 2.2.2** For English language proficiency, students must have at least a TOEFL score of iBT 79 or IELTS score of 6.5. Students with lower scores may receive conditional admission, requiring that they enroll in coursework at WSU's English Language Institute until they reach the necessary level of English. See Appendix II for English course requirements.
- 2.2.3** Students who wish to proceed to Phase II will be assessed by an appropriate Graduate Admissions Committee in the College of Engineering to determine their qualification for entry to the WSU program. The College will evaluate them in the same manner as other international students wishing to enroll at WSU. Students who maintain a GPA of 2.75 or higher and/or are in the top quartile of their class during the first three (3) years of study at MRSPTU will be considered for admission.
- 2.2.4** Students who pass the assessment process in 2.2.3 and meet all requirements of Phase I will be admitted to study at WSU under the TSP. WSU will provide an official admission letter to assist their application for an F-1 visa to continue their education at WSU.
- 2.2.5** Once students receive their F-1 visas and all WSU requirements of enrollment are satisfied, students will be permitted to enroll in the College of Engineering at WSU.

### Phase II

- 2.2.6** WSU will perform an assessment of all the applicants recommended by MRSPTU at the end of Phase I and offer admission to students meeting WSU's standards, both for



all Graduate School programs and those set forth by the College. Students who do not meet those standards or are unable to obtain an F-1 visa to the USA will continue their studies at MRSPTU.

**2.2.7** After completion of Phase I and successfully obtaining an F-1 visa, students will transfer to WSU as graduate students under this Agreement to start Phase II.

**2.2.8** Students in Phase II will be afforded all of the usual privileges of full time international students studying at WSU in accordance with all applicable laws and regulations.

**2.2.9** Students who successfully complete one year of degree specific technical electives and a senior design project at WSU will be reviewed. If approved by MRSPTU, they will be awarded the Graduation Certificate and Bachelor's Degree from MRSPTU.

**2.2.10** Students shall receive a notification letter of their completion of their Bachelor's Degree by MRSPTU and MRSPTU will forward an official copy of the letter and a transcript to the WSU Graduate Admissions office. All successfully-completed WSU course work taken during the first year at WSU may be counted toward a Master's degree in engineering at WSU.

**2.2.11** During Year 4 at WSU, students are expected to complete at least 16 credit hours. Also, during the 1<sup>st</sup> year of study at WSU, students are expected to complete their undergraduate research projects as part of MRSPTU undergraduate degree requirements.

**2.2.12** In the second year at WSU (Year 5 in the program), students must complete minimum of 16 credit hours of course work OR complete 8 credit hours of course work and 8 credit hours of Master Thesis Research.

### **3. The Tuition and Fees**

**3.1** Student fees for Phase I studies will be established and collected by MRSPTU and WSU shall have no claim against those fees.

**3.2** Students in Phase II will be responsible for all costs to study at WSU. The cost shall include travel between India and the United States, room and board, insurances and all of the prescribed fees to be collected by WSU. The base fees for Phase II are those published by WSU for International students. These fees may be adjusted at the sole discretion of WSU.

**3.3** In Phase II qualified students are eligible for the Graduate School Dean's Merit Scholarship which will be applied towards tuition. Every year, up to five qualified students may be selected by WSU for the scholarship.



- 3.4 MRSPTU will have no claim against fees collected by WSU. MRSPTU waives all rights to commission on student fees paid to WSU.

#### 4. Term and Termination

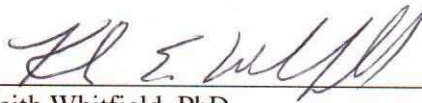
- 4.1 This Agreement commences on the date of the last signature by a party to the Agreement. The duration of the agreement is five years.
- 4.2 In the third year after commencement of the Agreement, the parties will undertake a joint evaluation and the agreement will continue to be effective for another term of five years.
- 4.3 This agreement may be terminated by a party serving on the other party at least 6 month's prior written notice. If the termination date falls during a phase of the Program, the agreement will be terminated after the completion date of that phase of the Program.

#### 5. Controlling Laws

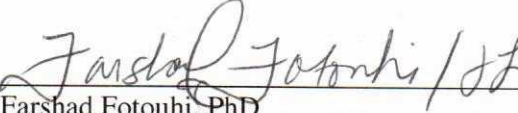
- 5.1 Before resorting to external dispute resolution mechanisms, the Parties shall attempt to settle by negotiation any dispute in relation to this Agreement.
- 5.2 At all times while WSU is to perform under this agreement WSU's obligation shall be subject to and be controlled by the laws of the United States and the state of Michigan. The English version of this Agreement controls the performance by WSU of its obligations under this Agreement.
- 5.3 At all times while MRSPTU is to perform under this agreement MRSPTU's obligation shall be subject to and be controlled by the laws of India. If a translated version of this Agreement exists, that version controls the performance by MRSPTU of its obligations under this Agreement.



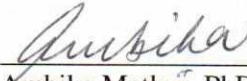
**Wayne State University:**

  
Keith Whitfield, PhD  
Provost

11/15/17  
Date

  
Farshad Fotouhi, PhD  
Dean, College of Engineering

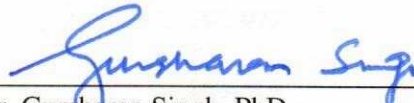
11/14/17  
Date

  
Ambika Mathur, PhD  
Dean, Graduate School


11/6/2017  
Date

FORM APPROVED  
Pg 1807-2017  
OFFICE OF THE  
GENERAL COUNSEL


**Maharaja Ranjit Singh Punjab Technical University**

  
Dr. Gursharan Singh, PhD  
Dean Academic

December 04, 2017  
Date

  
Dr. Buta Singh Sidhu, PhD  
Dean, (Planning & Development)

December 04, 2017  
Date

  
Dr. Jasbir Singh Hundal, PhD  
Registrar  
Registrar  
Maharaja Ranjit Singh  
Punjab Technical University, Bathinda

Dec 04<sup>th</sup>, 2017



**APPENDIX I:**  
**Estimated Expenses\***  
**(2017-18)**

**TUITION**

**YEAR 4**

		<b>Without Scholarship</b>	<b>with Graduate School Dean's Merit Scholarship</b>
Fall Semester (8 Cr. Hr)		\$12,601	\$9,601
Winter Semester (8 Cr. Hr)		\$12,601	\$9,601
TOTAL Cr. Hr. Year 1	16		
TOTAL YEAR 1 (Tuition)		<b>\$25,202</b>	<b>\$19,202</b>

**YEAR 5**

Fall Semester (8 Cr. Hr)		\$12,601	\$9,601
Winter Semester (8 Cr. Hr)		\$12,601	\$9,601
TOTAL Cr. Hr. Year 1	16		
TOTAL YEAR 1 (Tuition)		<b>\$25,202</b>	<b>\$19,202</b>
<b><u>TOTAL Tuition for 2 YEARS at WSU</u></b>		<b>\$50,404</b>	<b>\$38,404</b>

Estimate for cost of living on campus, including:

Room & Board	<b>\$9026 per year</b>
Books & Supplies	<b>\$1122 per year</b>
Health Insurance	<b>\$834 per year</b>
Miscellaneous	<b>\$3167 per year</b>
TOTAL for one year	<b>\$14,149 per year</b>
TOTAL for two years	<b>\$28,298 per two years</b>

TOTAL EXPENSES for 2 YEARS (tuition and cost of living)	<b>\$78,702</b>
TOTAL EXPENSES for 2 YEARS (Tuition with Dean's Merit Scholarship and cost of living)	<b>\$66,702</b>

\*The figures provided above are estimates, based on the 2017-18 tuition rates. Students will always be charged the currently published tuition for a given year, available here:  
<http://reg.wayne.edu/students/tuition.php>



## APPENDIX II:

## English Language Requirements for Admission

Applicants must have at least a TOEFL score of 17 (iBT\*) to be eligible for the 3+2 program. WSU will require students with a TOEFL score below 79 to enroll at the English Language Institute (ELI). English course requirements for participating 3+2 students will be as follows:

- **79 or above:** Direct admission to their academic program with no additional English coursework required.
- **75-78:** Direct admission to their academic program with required enrollment in one ELI course per semester until they reach a score of 79.
- **17-74:** Conditional admission through ELI with required full-time ELI enrollment until TOEFL score of 75 is achieved. At that point, students may begin to take academic coursework in addition to one ELI course.

For a summary of these requirements (including estimated time in ELI), please refer to the chart below:

TOEFL Score Range (listed in iBT)	Regular Admission	Admission with ELI	Conditional Admission
79 or above	Direct admission to academic program; no additional English coursework required.		
75-78		One ELI course in addition to academic coursework	
61-74			One full-time semester of ELI
17-60			Two or more full-time semesters of ELI

\*All scores are listed in iBT format, but WSU accepts equivalent TOEFL scores in the PBT or CBT formats as well.







# **ARTICULATION AGREEMENT**

**(Bachelor of Computing Science)**

between

**THOMPSON RIVERS UNIVERSITY (TRU)**

and

**MAHARAJA RANJIT SINGH PUNJAB  
TECHNICAL UNIVERSITY  
(MRS-PTU)**

2017

## **ARTICULATION AGREEMENT (Bachelor of Computing Science)**

BETWEEN:

THOMPSON RIVERS UNIVERSITY

Represented by its international education division, TRU World,

With a mailing address of

900 McGill Road, Kamloops, BC, CANADA

V2C 0C8

(hereinafter called “TRU”)

AND

MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY

With a mailing address of

Dabwali Road, Lal Singh Nagar, Bathinda, Punjab 151001, India

(hereinafter called “MRS-PTU”)

### **A BACKGROUND**

- A.1 TRU is a degree granting public university with its main campus operating in Kamloops, B.C., Canada.
- A.2 MRS-PTU is a degree granting public university operating in Bathinda, Punjab, India.
- A.3 MRS-PTU offers to its students the MRS-PTU Bachelor of Technology (hereinafter called “MRS-PTU Program”) and is empowered to grant degrees to graduates of MRS-PTU Program.
- A.4 TRU offers to its students the Bachelor of Computing Science degree program (hereinafter called “TRU Program”) and is empowered to grant degrees to the graduates of TRU Program.

### **B OBJECTIVES**

The objectives of this articulation agreement include, but are not limited to:

- B.1 Ensuring access by eligible students of MRS-PTU Program to TRU Program;
- B.2 Establishing criteria to determine eligibility of MRS-PTU Program students to TRU Program;
- B.3 Determining the transferability and applicability of certain courses offered by MRS-PTU to TRU Program; and

- B.4 Establishing of processes to encourage, review and expand, as appropriate, this Agreement between TRU and MRS-PTU.

## **C AGREEMENT**

- C.1 TRU agrees to accept in the TRU Program students of the MRS-PTU program who meet the criteria set out in Schedule "A" of this Agreement, provided that TRU student application forms are received by March 31 for transfer to Fall Semester, and August 31 for transfer to Winter Semester. Such acceptance is subject to there being seats available in the TRU Program when MRS-PTU students apply
- C.2 Both MRS-PTU and TRU agree to encourage MRS-PTU students to participate in this articulation program by providing information and assistance to prospective transfer students. Appendix A to this Agreement provides information on suggested courses available through MRS-PTU and TRU and their transferability to the TRU Program.
- C.3 Each of MRS-PTU and TRU will designate a program representative at its respective campus to facilitate coordination of this Agreement.

## **D TERM OF AGREEMENT**

- D.1 This Agreement will become effective on the date of signing and shall have an initial term of five (5) years. The term shall be extended on a year by year basis unless either party notifies the other in writing at least six (6) months before the end of the then-current term of its desire to terminate the Agreement. If either party breaches a material term herein, this Agreement may be terminated by the other party upon giving six (6) months' written notice of such breach.
- D.2 In the event of the termination of this Agreement under Section D.1, both parties acknowledge and agree that, subject to Section C.1 above, all students enrolled in the MRS-PTU Program as at the date of the written notice of such termination shall be entitled to admission to the TRU Program under this Agreement despite its termination, upon their graduation from MRS-PTU so as to ensure the fulfillment of the reasonable expectations of such students.
- D.3 Each institution must notify the other when material changes are made to curriculum of the MRS-PTU Program or the TRU Program as the case may be. Depending on the nature of the curriculum change, adjustments to the attached Schedule A and Appendix A of this Agreement may be necessary.

## **E GENERAL**

- E.1 Any notice or other communication between the parties may be delivered by courier, mail, facsimile or electronic mail to the respective addresses of the parties set out below:

If to TRU:

TRU World  
900 McGill Road  
Kamloops, BC, Canada V2C 0C8

Attention: Baihua Chadwick, Associate Vice-President International and  
CEO, TRU World Global Operations

Facsimile: 1-250-828-5140

E-mail: bchadwic@tru.ca

If to MRS-PTU:

MRS-PTU  
Dabwali Road, Lal Singh Nagar, Bathinda  
Punjab 151001 India

Attention: Prof. (Dr.) Buta Singh Sidhu  
Dean (Planning and Development)

Phone: +91-95011-09002

E-mail: butasidhu@yahoo.com

- E.2 Neither party to this Agreement shall be liable to the other party for any failure or delay in performance caused by circumstances beyond its control including, but not limited to, acts of God, fire, labour difficulties, unusually severe weather or governmental action. If TRU ceases offering the Program, it will have no obligation to accept MRS-PTU Program students into the TRU Program unless and until it starts offering the TRU Program again. Both TRU and MRS-PTU will work collaboratively to explore alternative educational pathways for students who are registered in the MRS-PTU Program.

IN WITNESS WHEREOF TRU and MRS-PTU have executed the Agreement on the dates of set out below:

**Thompson Rivers University**

**Maharaja Ranjit Singh Punjab Technical University**

Per

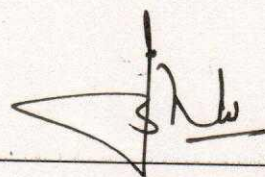


Baihua Chadwick

Associate Vice-President International

CEO TRU World Global Operations

Per:



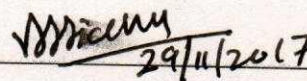
Dr. Jasbir Singh Hundal

Registrar

Witnessed by:



Witnessed by:

  
29/11/2017

Date:

Nov 29. 2017

Date:

Nov. 29<sup>th</sup>. 2017

## **Schedule A**

to an

### **Articulation Agreement between TRU and MRS-PTU**

MRS-PTU Program:

Bachelor of Technology (Computer Science and Engineering; I.T) Degree Program

TRU Program:

Bachelor of Computing Science Degree Program

### **TRU Bachelor of Computing Science Degree Admission Requirements**

To be considered for admission to BCS, students must have completed:

- BC Pre-calculus 12 or Foundations of Math 12 with a minimum of C+ within the last two years; or
- Equivalent;

AND

- BC English 12/English 12 First Peoples with a minimum of 73%; or
- Equivalent (see Appendix B).

Students applying for admission to the degree program are required to provide original documentation showing their full post-secondary academic history.

### **English Language Proficiency Requirements for Academic Study**

Students are required to meet minimum English language proficiency requirements for direct entry into academic programs. English language proficiency requirements are subject to change.

Students may meet this condition by either providing an acceptable English language proficiency test score (TOEFL, IELTS, etc.) or by achieving an acceptable score on the TRU English Placement Test (EPT). Students are strongly encouraged to complete an acceptable test prior to arriving to improve course selection options, but this is not mandatory.

In order to verify all English language proficiency test scores, students must have an official copy sent directly to TRU Admissions from the testing agency. Copies of test scores, provided to the ESAL department upon arrival, will not be accepted.

Students who do not achieve the results for direct entry into academic programs will be placed in the appropriate level of English language study as indicated below.

TOEFL			IELTS	MELAB	CanTEST	CAEL	TRU Placement*
iBT	Paper-based	Computer-based					
88+ with no section below 20	570+ TWE 4.5+	230+ Essay 4.5+	6.5+ with no bands below 6.0	81+	4.5+ with no component score below 4.0	Overall 70+ No subtest below 60	Direct entry to academic programs
80+	550-569 TWE 4.0+	213-229 Essay 4.0+	6.0+ with no band below 5.5	77+	4.0+ with no component score below 4.0	Overall 60+ No subtest below 50	Direct entry into Level 5 ESL (2 ESL courses and 3 Academic courses)
71+	530-549	197-212	5.5+ with no band below 5.0	74+	4.0+ with no component score below 3.5	Overall 50+ No subtest below 40	Direct entry into Level 4 ESL (4 ESL courses and 1 Academic course)
61+	500-529	173-196	5.0+	69+	3.5+	Overall 40+	Direct entry into Level 3 ESL

\*A student must meet or exceed the required level on all aspects to be at any specific level (e.g. Direct entry students must have 88+ and all sections at least 20). When sub-scores are used, a good mark in one area will not compensate for a poor mark in another. If a student does not meet the requirements for direct entry, it is recommended that they write the TRU placement test to determine the appropriate placement for them in ESAL.

Common European Framework of Reference for Languages - TRU will consider the CEF C1 and C2 for direct entry into academic programs. We will also consider CEF B2 and B2+ as equivalent to the IELTS 5.0+ for placement purposes.

Cambridge ESOL - TRU will consider the CAE (Certificate in Advanced English) and CPE (Certificate of Proficiency in English) for direct entry into academic programs. The FCE (First Certificate in English) will be considered at the IELTS 5.0+ for placement purposes.

## **TRU Bachelor of Computing Science Degree Requirements**

Degree requirements are subject to change. The current degree requirements for completion of the TRU Program are:

- The student must have completed at least 120 credits.
- At least 25% of these (30 credits) must be obtained at TRU.
- A minimum cumulative GPA of 2.0 must be obtained on the courses taken at TRU.
- At least 6 upper level COMP courses must be completed at TRU.

**Note:** After transfer to TRU, students are responsible for consulting with their TRU program advisor to ensure courses selected are appropriate for their program of study or to meet future educational goals. Students require a Letter of Permission from TRU to register in a course that is not the subject of this Agreement (and not listed in the TRU calendar or on the TRU website) at any post-secondary institution to complete the degree. Students who proceed without approval may find that a course does not meet requirements and may be subject to transfer credit assessment fees.

### **Co-operative Education:**

Transfer students are eligible for Co-operative Education after 1 year of study at TRU Campus.

### **Transfer:**

MRS-PTU Program students may transfer to TRU Program at Kamloops campus after completing 2 or 3 years of study at MRS-PTU.

## Appendix A

### Course Transferability for 2017 (and Beyond) Intakes of MRS-PTU Program

\* A minimum C grade is required in order to receive transfer credit.

MRS-PTU Code	Course Title	TRU Code	Credit
BPHY0-101/102 (lab)	Applied Physics	EPHY 1XX0	3
BELE0-101/102 (lab) + BECEO 101/102 (lab)	Basics of Electrical Engineering + Basics of Electronics Engineering	PHYS 2XX0	3
BMAT0-101	Applied Mathematics I	MATH 1XX0	3
BHUMO 101/102 (lab)	Communicative English	LANG 1XX0	3
BCHM0-101/102 (lab)	Applied Chemistry	CHEM 1XX0	3
BMAT0-201	Applied Mathematics II	MATH 2XX0	3
BMEE0-101/102 (lab)	Elements of Mechanical Engineering	PHYS 1XX0	3
BCSE0-101/102 (lab)	Basics of Computer Programming	COMP 1520	3
BMEE0-102	Engineering Drawing	DRAF 1XX0	3
BCSE1-302/307 (lab) (BITE2-302/307)	Data Structures	COMP 2230	3
BCSE1-303+308 (lab) (BITE2-303/308)	Object Oriented Programming Using C++	COMP 2520	3
BCSE1-304/309 (lab) (BITE2-304/309)	Digital Circuits & Logical Design	PHYS 2XX0	3
BCSE1-305 (BITE2- 305)	Computer Architecture & Organization	COMP 1390	3
BCSE1-306 (BITE2- 306)	Discrete Structures	MATH 1650	3
BCSE1-411 (BITE2- 411)	Operating System	COMP 3410	3
BCSE1-412/416 (lab) (BITE2-412/416)	Database Management Systems-I	COMP 3610	3
BCSE1-413/417 (lab) (BITE2-413/417)	Computer Networks-I	COMP 3270	3
BCSE1-414/418 (lab) (BITE2-414/418)	Design & Analysis Of Algorithms	COMP 2XX0	3
BCSE1-415/419 (lab) (BITE2-415/419)	Microprocessors & Assembly Languages	COMP 2130	3

Notes:

- 1) Other MRS-PTU courses may be considered for transfer credit on a case-by-case basis, provide course syllabus and transcripts are provided.
- 2) Not all transferred courses may necessarily be applicable or fit into the TRU program. The TRU Program Advisor can confirm applicability to specific student program.
- 3) Should course content change at either MRS-PTU or TRU, a new assessment for transfer credit may be undertaken.



## MEMORANDUM OF UNDERSTANDING

THIS **MEMORANDUM OF UNDERSTANDING** (this "MoU"), is made on the 2<sup>nd</sup> day of March, 2017 between **Josh Technology Group**, having its office at #861, Phase 5, Udyog Vihar, Gurgaon, Haryana - 122016, INDIA (hereinafter referred to as "**JTG**") and Maharaja Ranjit Singh Punjab Technical University, Bathinda, having its principal location at Bathinda (hereinafter referred to as the "**University**").

### RECITALS

**JTG** and **Institution** are hereinafter collectively referred to as the "Parties" and individually referred to as the "Party". Each Party in this agreement has the legal authority and capacity to enter into this agreement.

The individual colleges / institutions associated with the **University** are referred to as "**Institution**".

WHEREAS **JTG** is providing its product **CALYXPOD** for use by the **University** and its **Institutions** for their convenience and as a tool to help them perform their job in a more efficient manner;

WHEREAS the **University** desires to engage with **JTG** to use its product **CALYXPOD** by itself and its **Institutions**;

Whereas the Maharaja Ranjit Singh State Technical University, Bathinda, a university of high repute, is endeavoured to state of Punjab and the country and Technical Education system as a whole. It is considered as a trend-setter in the area of education and research in the field of Engineering, Technology, Science and Management.

NOW, THEREFORE, for and in consideration of the mutual covenants and obligations by the parties hereto, the receipt and sufficiency of which both parties hereby acknowledge, it is agreed as follows:

### **1. SCOPE of CALYXPOD**

**JTG** will provide its product **CALYXPOD** over the internet. **CALYXPOD** will be offering the following features for use by the **University** and the individual **Institutions** for their convenience and as a tool to help them perform their job more effectively:

- 1.1 **University** and each of its **Institution** will be provided its own **Community** on **CALYXPOD** with a URL similar to <https://Community.Calyxpod.Com>.
- 1.2 **University** and each of its **Institution** will be able to update its contact details & logo.
- 1.3 **Institution** will be able to define and manage any number of courses or degrees that it offers to the students.
- 1.4 **University** and each of its **Institution** will be able to add any new team member to its **Community** on **CALYXPOD**, or suspend any team member from its **Community** on **CALYXPOD**. **Institution** will also be able to manage the permissions and roles of each individual team member on its own.

*Bohels*  
02/03/2017

*[Signature]*  
02/03/2017



- 1.5 **University** and each of its **Institution** will be able to define and manage up to five (5) departments on **CALYXPOD** for managing their placement activities across different courses offered by it. **University** and each of its **Institution** will be able to associate any number of courses or degrees with each of the departments.
- 1.6 **University** and each of its **Institution** will be able to add and manage up to twenty (20) active members in each department defined by it.
- 1.7 Each Department team member, as per the role & permission assigned to it, as defined by CALYXPOD, will be able to add and manage students belonging to various courses linked to the Department.
- 1.8 Department team member as per the role & permission assigned to it, as defined by CALYXPOD, will be able to invite Students to CALYXPOD.
- 1.9 Institution, as defined by CALYXPOD, will be able to decide if the students can update their academic details by themselves or only the Department team members must be allowed to update the academic details of various students.
- 1.10 Institute Department Team Members as per the role & permission assigned to them, as defined by CALYXPOD, will be able to download an Excel of the various students being taken care of by it. University Team Members will also be able to download the Excel if permitted by the Individual Institutes.
- 1.11 Institute Department Team Members as per the role & permission assigned to them, as defined by CALYXPOD, will be able to view and download various resumes submitted by the student. University Team Members will also be able to view and download the resumes if permitted by the individual Institutes.
- 1.12 Institute Department Team Members as per the role & permission assigned to them, as defined by CALYXPOD, will be able to define and manage various placement events being organized by them for the students.
- 1.13 University Team Members as per the role & permission assigned to them, as defined by CALYXPOD, will be able to define and manage various pool campus placement events being organized by them for the students. University will be able to invite its Institutes to participate in the same. University will be able to directly shortlist and notify the Institute's Students if permitted by the individual Institutes else the Institute will receive the University's invitation and notification. Post that the Institute will share the list of interested Students with University.
- 1.14 University and Institute Department Team Members as per the role & permission assigned to them, as defined by CALYXPOD, will be able to view / download the following lists of students for the placement events organized by them:
  1. Students who are eligible for a placement event.
  2. Students who have registered for the placement event.
  3. Students whose applications have been approved for being sent to the Company.
  4. Students whose applications have been shortlisted by the Company for appearing in the placement event.
  5. Students who have been selected for offers by the company in the placement event.
- 1.15 Department Team Members as per the role & permission assigned to them, as defined by CALYXPOD, will be able to view the list of all the Placement Events being organized for a batch.

*Bohels*

*[Signature]*



- 1.16 Department Team Members as per the role & permission assigned to them, as defined by CALYXPOD, will be able to view the list and the details of all the offers made to the students of a batch.
- 1.17 Individual students will be able to edit / update the following details in their profile and generate their Resumes.
  1. Personal Details (excluding the Name, Course, Roll Number)
  2. Contact Details (excluding the Primary Email Address)
  3. Academic Details
  4. Project Details
  5. Professional Experience Details
  6. Seminar / Training Details
  7. Research / White Paper Details
  8. Achievements, Extra Curricular Activities, Personal Interests / Hobbies.
  9. References
- 1.18 Department Heads can decide if they would like to make it mandatory for students to seek approval on their resume content before they can submit the resume at the time of registering for a placement event or if the students can directly submit the newly generated resumes without seeking the approval from the Department.
- 1.19 Students will be able to view the various placement event opportunities for which they are eligible.
- 1.20 Students will be able to Register for the Opportunities they are eligible for. Student can do so only within the period the Department has opened the Registration. Department will be allowed to change the dates of Registration as per their requirements.
- 1.21 Students must be able to see the details of the Job / Internship offer received by them.
- 1.22 Notifications will be generated on CALYXPOD to keep students informed of the various placement events schedule being organized by the Department. These Notifications will be based on the details provided by the Department Team Members.
- 1.23 Institute will be able to view the Placements Events Calendar for all the events being organized for its students. University will be able to view the Calendar of each individual Institute if it has the permission to do so.
- 1.24 University and the Institutes will be able to share the details of the Students with the companies directly from CALYXPOD.
- 1.25 Students and the Department Team Members will be able to engage with each other via various Forums. They will be able to create public and private forums. Department Team Members will be able to create Forums for Students to share the experience of various placement events. These forums will be open for participation of all other Batch Students also so that they can prepare better for the placement events.
- 1.26 If a minimum of twenty (20) Institutes / Colleges of the University start using CALYXPOD then the following features will also be provided.
  - 1.26.1 Mobile Application for Students and Department Team Members
  - 1.26.2 Institute will be able to view the reports of various placements event related activities and the offers received by its students.
  - 1.26.3 University will be able to view the Reports of all the Colleges / Institutes provided it has the permission / right to do so as per its understanding with individual Colleges / Institutes.

*[Handwritten signature]*

*[Handwritten signature]*



1.26.4 University and the Institute will be able to open these reports for viewing by Students.

## 2. SUBSCRIPTION FEES

JTG will provide the features of **CALYXPOD** mentioned in this MoU for use by the University free of cost for engaging with all of its Institutes / Colleges.

JTG will provide the features of **CALYXPOD** mentioned in this MoU for use by the **Institution** free of cost for up to a maximum of thousand (1000) students in one (1) Batch. All students graduating in one calendar year are termed together as a single Batch. These students may belong to any course and the graduating month (in one calendar year) of each course may be different from the other.

Additionally JTG will also permit the **Institution** to be able to add & invite its per-final year students and manage their internship opportunities without any cost to the **Institution**.

JTG commits to let the **Institution** use the features of **CALYXPOD** mentioned in this MoU free of cost for the first two (2) years from the date of signing of this agreement. Post the 2 years of using **CALYXPOD**, the price shall be tentatively Rs.50 per student for one year for the features mentioned in this MoU.

JTG will provide a capability to the **University / Institution** to send SMS and EMAIL Notifications to Students via **CALYXPOD**. However the same will be chargeable based on the number of SMS and Email Notifications sent by the **Institution**. The cost for SMS and Email Notifications can be shared if required.

## 3. New Features

JTG will keep introducing new features on **CALYXPOD** from time to time. It will notify the **University** and the **Institutes** about those features and the terms of use for the same. The features being offered for free will be automatically rolled live for use by **University** and the **Institute**. For paid features the University and the Institute will be able to decide if they want to avail those features.

JTG expects to introduce the following features on **CALYXPOD** in the calendar year 2017. JTG will notify the University and the Institutes about these features in detail along with their exact schedule when it gets close to making these live for use.

1. Management / Tracking of Projects.
2. Management of Industrial Trainings / Internships.
3. Management of Seminars, Workshops.
4. Placement Event Day Tracker.

*Break*

*32*



## 4. DATA SECURITY

As per this agreement all the details collected from the students and all data stored and retained in **CALYXPOD** shall not be misused, distributed, and sold by **JTG** to any third party for commercial purposes.

That **JTG** undertakes and ensures that it shall take all optimum steps and shall guarantee to its best capacity and capabilities to provide security and protect the information stored on **CALYXPOD** in accordance to all prevalent and established internet protocols.

## 5. TERM, TERMINATION and REVIEW

This Agreement is valid from the Effective Date (date of signing of the agreement) outlined herein and is valid until two (2) years from the date of signing of the agreement.

This Agreement will be reviewed once the deadline has expired and may be continued by mutual consent of both parties.

University may choose to end this agreement at their will at any date before the expiry of the two (2) year period. JTG on receiving a notification from the Institution for ending the contract will disable the University's Community on CALYXPOD.

## 6. DISPUTE RESOLUTION: ARBITRATION CLAUSE

Every dispute, difference, or question which may at any time arise between the parties, touching or arising out of or in respect of this agreement or the subject matter thereof shall be referred to the sole arbitrator appointed by **JTG** and in the event of any failure to commence or to continue arbitration by the arbitrator for any reasons whatsoever, the new arbitrator shall be appointed by **JTG** only.

The arbitration shall be governed by the applicable Indian Laws. The seat of arbitration shall be in Delhi, India.

## 7. MISCELLANEOUS:

- a) The Parties agree to attempt in good faith to resolve any dispute or disagreement of any kind whatsoever between or among them in connection with or arising out of this agreement, including any question regarding its existence, validity or termination ("Dispute") expediently and amicably to achieve timely and full performance of the term of this agreement.
- b) All claims regarding this Agreement are governed by and construed in accordance with the laws of Delhi state and central government of India applicable to contracts wholly made and performed in such jurisdiction, except for any choice or conflict of law principles and must be litigated in Delhi state jurisdiction only.

*M. K. K.*


*[Signature]*




- c) This Agreement binds and inures to the benefit of the parties' successors and assignees. This Agreement is not assignable, delegable, sub-licensable, or otherwise transferable by the **University** of the **Institutions** in whole or in part without the prior consent of **JTG**. Any transfer, assignment, delegation or sublicense by **University** or the **Institutions** done otherwise without consent is absolutely invalid.

IN WITNESS WHEREOF the Parties hereto have entered into this Agreement the day and year herein above written.

Signed and Delivered by The Authorized Representative of Parties to this Agreement:

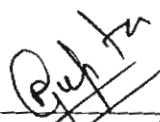
  
02/03/2017  
(Authorized Signatory)

**First Party**  
**Josh Technology Group**  
**Royston Botelho**  
(Business Head)

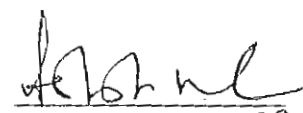
  
02/03/2017  
(Authorized Signatory)

**Second Party**  
Prof. (Dr.) Jasbir Singh Hundal  
Registrar  
Maharaja Ranjit Singh,  
Punjab Technical University, Bathinda

Witness:

1.   
21/3/2017  
RISHU GUPTA.  
Dated: 02.03.2017

Witness:

2.   
02/03/2017  
(Do Ashok Kumar Goel)




# **MEMORANDUM OF UNDERSTANDING**

**BETWEEN**

**Maharaja Ranjit Singh  
Punjab Technical University,  
Bathinda**

**And**

**Central Tool Room, Ludhiana**

  
02/03

1




This Memorandum of Understanding (MOU) is entered into on **2<sup>nd</sup> day of March, 2017** between **Central Tool Room, Ludhiana** (referred to as CTR, Ludhiana) as the **First party** and the **Maharaja Ranjit Singh Punjab Technical University, Bathinda** (referred to as MRSPTU, Bathinda) as the **Second Party**.

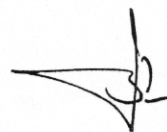
Whereas Central Tool Room, Ludhiana (CTR) is an Indo-German Project setup under bilateral agreement on technical cooperation between Government of India and Government of Germany in 1980 and it is working under administrative control of ministry of micro, small and medium enterprises, Government of India. The objectives of CTR are to increase efficiency of MSME in the field of light engineering and allied fields by providing support in the area of design and production of tools, jigs and fixtures, moulds and dies, advisory / consultancy services and impart technical training to tool makers.

Whereas the Maharaja Ranjit Singh Punjab Technical University, Bathinda, a university of high repute, is endeavoured to state of Punjab and the country and Technical Education system as a whole. It is considered as a trend-setter in the area of education and research in the field of Engineering, Technology, Science and Management.

Now, therefore, in consideration of the premises and quality improvement of technical education and skill development, CTR, Ludhiana (the first party) and MRSPTU, Bathinda (the second party) hereto agree as follows:

1. Would exchange information and data on training and skills requirement and their relationship to emerging industrial needs.
2. Shall work together in matters relating to make training and education relevant to changing technological needs design, development, implementation and review of the curriculum and the resource material.
3. Would exchange faculty between the parties to impart the quality training.
4. Would undertake joint projects to solve specific industrial problems.
5. Would plan continuing education programs to keep practicing engineers and faculty abreast of developments in their respective fields.
6. Would organize joint workshops and seminars in the field of technical education and industrial training to promote innovation, optimization of resources, penetration in frontier areas and allied issues of mutual interest.
7. Would organize visits by students and faculty of MRSPTU, Bathinda to CTR and engineers and managers of CTR to MRSPTU, Bathinda to increase interaction.
8. Would jointly monitor the performance of collaboration between MRSPTU, Bathinda and CTR.
9. Shall set up a collaborative working group which would provide direction to these interactive efforts between MRSPTU, Bathinda and Central Tool Room, Ludhiana. The two parties shall work together to initiate collaborative diploma/degree programmes in Tool & Die Technology.
10. CTR will impart one month industrial training in each semester to the students of one year duration certificate course in Tool and Die-making conducted at MRSPTU,

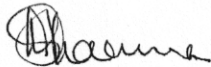
  
02/03



Bathinda and its constituent/affiliated colleges. The proposed months of training in each semester are December and June.

11. CTR will charge tuition fee Rs. 3,750 per student per month for providing industrial training to the students of one year duration certificate course in Tool and Die making as well as for one year certificate course students in Refrigeration & Air Conditioning and Electronics Equipment Maintenance.
12. CTR will provide registration and attendance record of the students on regular basis to MRSPTU, Bathinda.
13. CTR will also issue certificate to all the students of the university and its constituent/affiliated institutions who take training in CTR, Ludhiana.
14. The boarding and lodging charges will be extra at nominal rates.
15. CTR will conduct placement/campus recruitment programs for MRSPTU, Bathinda students undergone training by CTR.
16. CTR will help in mobilizing students for admission in one year duration certificate course in Tool and Die-making.
17. Both parties acknowledge and agree to encourage research activities in the region. CTR, Ludhiana shall extend discounted rates for all paid services to the students and faculty of MRSPTU and its constituent/ affiliated colleges.
18. Will review quarterly the status of this memorandum and adopt steps and measures necessary to achieve the objectives of the memorandum.
19. This agreement will last for 3 years from the date of signing. Either of the parties may terminate the agreement with 90 days notice.
20. This agreement represents the entire understanding between the parties. This agreement will only be modified in writing with the same formality as the original agreement.

The authorized representatives of the parties have executed this agreement as on date indicated below.

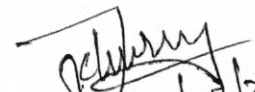


(Authorized Signatory)

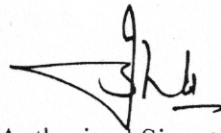
**First Party**

Mr. A. P. Sharma  
General Manager  
Central Tool Room,  
Ludhiana

Witness:

1.   
02/03/2017

**Dated: 02.03.2017**

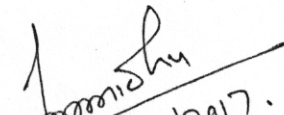


(Authorized Signatory)

**Second Party**

Prof. (Dr.) Jasbir Singh Hundal  
Registrar  
Maharaja Ranjit Singh,  
Punjab Technical University, Bathinda

Witness:

2.   
02/03/2017.



**PARTNER ACCEPTANCE DOCUMENT  
INDIA**

A-201, Supreme Business Park,  
Hiranandani Gardens,  
Powai, Mumbai -400 076  
+91 22 61147588 | www.redhat.com



<b>Parties</b>	
<b>Partner information</b>	<b>Red Hat India Private Limited.</b>
Company name: <b>Maharaja Ranjit Singh Punjab Technical University</b>	Contact Name: <b>Abhijeet Roy</b>
Address: <b>Dabwali Road, Bathinda, Punjab, Haryana, India- 151001</b>	Email: <b>aroy@redhat.com</b>
Contact name: <b>Dr. Jasbir Singh Hundal</b>	Tel.no. <b>+91 22 61147588</b>
Email: <b>reg@mrspu.ac.in</b>	
Telephone: <b>08725072319</b>	

<b>Territory</b>
India

This Partner Acceptance Document, upon execution, authorizes you to participate in one or more of the Red Hat Partner Programs marked below) in the Territory indicated above and sets forth the terms of your participation. If no Territory is identified above, the Territory will default to the country of your address above. The "Agreement" is comprised of this Partner Acceptance Document(s), the Partner Terms and Conditions, each applicable Program Appendix and transaction document(s) (which may be referred to as "Order Forms") entered into pursuant to these terms (collectively, the "Agreement"). Additional Program Appendices may be added by executing additional Partner Acceptance Documents.

Applicable Program Appendices	Program(s)	Location of Program Terms
(mark all that apply)		
<input checked="" type="checkbox"/>	Red Hat Academy Program	Attached.

Applicable Terms and Conditions (choose only one)	Partner Terms and Conditions
<input checked="" type="checkbox"/>	The Partner Terms and Conditions set forth in the attached Appendix 1 and, if not attached, then as set forth at <a href="http://www.redhat.com/licenses/partners/">www.redhat.com/licenses/partners/</a> .

<b>Additional Terms</b>

Please sign below and fax this Partner Acceptance Document to +91 22 61147588 or send a pdf file by e-mail to aroy@redhat.com. Also, please courier the original signed document to Abhijeet Roy. Each Party has executed this Partner Acceptance Document by its duly authorized representative and by its signature agrees to be bound by the terms of the Agreement.

**Maharaja Ranjit Singh Punjab Technical University**

Signature:

Printed Name: **Dr. Jasbir Singh Hundal**

Title: **Registrar MRSPTU Bathinda**

Date: **01/08/17**

Registrar  
Maharaja Ranjit Singh  
Punjab Technical University, Bathinda

**Red Hat India Private Limited**

Signature:

Printed Name: **SOVIK BROMHA**

Title: **DIRECTOR FINANCE**

Date: **21/8/2017**



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## 1. Purpose

Red Hat designs programs for its partners ("**Programs**") to promote Red Hat Products, enhance the satisfaction of Red Hat's End Users and augment the expertise and resources of partners. Partner's participation in a Program(s) is governed by (a) Partner Acceptance Document including these Partner Terms and Conditions; (b) the applicable Program Appendix(ices) which have been agreed to by the Parties; and (c) any transaction documents (subject to this Agreement) for Red Hat Products and/or Services (each, an "**Order Form**").

"**Red Hat**" means Red Hat India Private Limited with a principal place of business at 02<sup>nd</sup> Floor, A-201 Supreme Business Park, Hiranandani Gardens, Powai Mumbai- 400 076. Red Hat "**Products**" and "**Services**" mean the specific Red Hat branded offerings set forth in a Program Appendix. The "**Software**" means the Red Hat branded software contained in the Red Hat Products, including any Updates in any form (e.g. binary, source or recompiled), that are delivered by or obtained from Red Hat, directly or indirectly, provided that Software does not include optional third party software set forth at <https://www.redhat.com/licenses/thirdparty/eula.html>. "**Updates**" mean software fixes, upgrades, enhancements, additions, corrections and modifications, if and when available. Red Hat and Partner are collectively referred to as the "**Parties**" and may be referred to individually as a "**Party**". "**End User**" is defined in the Program Appendices.

## 2. Programs, Application Process and Acceptance

Program Appendices and Program Guides may be amended by Red Hat at the time of renewal of the applicable Program Appendix, provided if you do not agree with the terms of the new Program Guide, you may elect not to renew the applicable Program Appendix subject to the terms of such Program Appendix. Unless otherwise agreed in writing, any subscriptions for Red Hat Products or Services purchased under a Program Appendix will commence upon the earlier of (a) the first use of such Product or Service, (b) the purchase date of such Product or Service or (c) the commencement date set forth in the Order Form.

## 3. Affiliate Authorizations

Partner's Affiliate(s) may participate in a Program only upon (a) approval by Red Hat, including with regard to Program level and credit terms, and (b) execution of a written participation agreement with Red Hat or its Affiliate(s) to bind the Partner Affiliate to this Agreement. "**Affiliate**" means an entity that owns or controls, is owned or controlled by, or is under common control or ownership with a Party, where "control" is the possession, directly or indirectly, of the power to direct or cause the direction of the management and policies of an entity, whether through ownership of voting securities, by contract or otherwise.

## 4. Territory

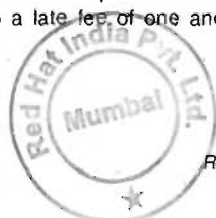
Partner may participate in the Program(s) only in the Territory designated in this Agreement. Red Hat and Partner may elect to expand the Territory, add Affiliates and/or establish different terms and conditions (e.g. currency, taxes, entities, etc.) by mutual written agreement, which may take the form of a Partner Acceptance Document or written participation agreement subject to this Agreement.

## 5. Fees

Fees, if applicable, will be as indicated in each appropriate Program Appendix and/or Order Form, and will be due and payable as set forth in such Program Appendix or Order Form subject to this Agreement. All amounts owed under the Agreement are to be paid in Indian Rupees unless specified otherwise.

## 6. Billing, Payment and Taxes

If Partner acquires Red Hat Products and/or Services directly from Red Hat, Red Hat will invoice Partner as set forth herein and may require receipt of a purchase order for any amounts due to Red Hat; provided, however, that any terms contained in a purchase order will not amend, supplement or modify the terms of this Agreement or be binding on Red Hat. Partner must pay all sums due to Red Hat either (a) net thirty (30) days from the date of invoice if Red Hat has approved Partner for such credit terms or (b) if Partner has not been approved for net thirty (30) day credit terms, then on a prepaid basis, in each case without regard to when or whether Partner collects payment from its customer(s). Partner will reimburse Red Hat for all costs and expenses incurred by Red Hat in connection with the collection of overdue amounts, including without limitation reasonable attorneys' and/or legal fees. All amounts payable shall be exclusive of any Taxes. Partner will pay to Red Hat, in addition to any amounts due to Red Hat for Red Hat Products or Services, an amount equal to any Taxes arising from or relating to this Agreement that are paid or are payable by Red Hat unless Partner presents Red Hat with a valid tax exemption or resale certificate. "**Taxes**" means any form of taxation of whatever nature and by whatever authority imposed, exclusive of any taxes based on the net income of Red Hat. In the event of a cross-border transaction, if Partner is required under any applicable law or regulation, domestic or foreign, to withhold or deduct any portion of the payments due to Red Hat, then the sum payable to Red Hat will be increased by the amount necessary for Red Hat to receive an amount equal to the sum it would have received had no withholdings or deductions been made, unless Partner provides Red Hat with the original withholding tax documentation that is sufficient for Red Hat to apply for and obtain a tax credit for the full withheld amount. The Parties will work together in good faith to minimize adverse tax consequences to Red Hat created by cross-border transactions. Any payments more than thirty (30) days past due will be subject to a late fee of one and one-half percent (1½%) per month, or the maximum rate allowable by law, whichever is less.



## 7. Verifications

During the Term and for at least two (2) years thereafter, Partner will keep and maintain commercially reasonable written records regarding Partner's use and distribution of the Red Hat Products and Services and business activities related to the Program(s) ("Records"). Red Hat may, at its own expense, verify the Records to determine Partner's compliance with this Agreement. This verification may take the form of requests for information, documents or records (to which Partner will respond promptly), on-site visits (for which Partner shall grant Red Hat the requisite access), or both. The Parties will act reasonably and cooperate with each other in respect of such verifications. Any on-site visit will occur during regular business hours and will not interfere unreasonably with Partner's business. For an on-site visit, Red Hat will give Partner at least thirty (30) day's prior written notice.

## 8. Trademarks

8.1 The term "Red Hat Marks" means the trademarks owned by Red Hat or a Red Hat Affiliate that are set forth in an applicable Program Appendix. Red Hat grants Partner a non-exclusive, non-transferable, royalty-free, revocable license in the Territory and during the Term to use the Red Hat Marks solely in connection with the marketing and distribution of Red Hat Products and/or Services as permitted in this Agreement, without the right to sublicense. Partner agrees to use the Red Hat Marks only as stated in this Agreement, and in doing so, to follow the standards of quality established by Red Hat and to adhere to the trademark usage guidelines found at: <http://www.redhat.com/about/corporate/trademark/guidelines> as amended from time to time and any other trademark terms contained in a Program Appendix (the "Red Hat Trademark Guidelines"). Any other use of Red Hat Marks is not permitted. Partner will provide Red Hat with representative samples of the use of Red Hat Marks contained within any materials including web pages, marketing, advertising, promotional and collateral materials ("Promotional Materials").

8.2 All goodwill created by the use of Red Hat Marks by Partner is for the sole benefit of, and accrues to Red Hat. Partner acquires no right, title or interest in Red Hat Marks or the goodwill associated with them, other than the right to use Red Hat Marks in accordance with this Agreement. Partner will not challenge the validity of Red Hat Marks, nor assist anyone in challenging their validity. Partner agrees not to make any application to register any Red Hat Mark or any domain names containing a Red Hat Mark, and not to use or register any trade name, trademark, service mark, slogan, logo or domain name that is confusingly similar to, or a reference to, any Red Hat trade name, trademark or service mark during or after the Term of this Agreement. Partner may not disparage Red Hat, Red Hat Marks or Red Hat Products.

## 9. Additional Requirements

9.1 Red Hat reserves all rights not expressly granted in this Agreement and all rights not expressly granted to the Red Hat Products and Services (including rights under any trademarks, copyrights, patents or other intellectual property of Red Hat). Partner will not use Red Hat Products or Services to create an offering competitive with Red Hat, directly or indirectly, or, unless specifically permitted in this Agreement, for the benefit of any other person or entity or permit any third party to make such use. If Red Hat determines that any of the Red Hat Products or Services is being used (in whole or in part) by Partner in any way to (a) avoid paying fees that would otherwise be due hereunder, (b) provide Services to third parties outside of the scope of a Program or (c) create revenue without payment of fees to Red Hat for Red Hat Products or Services, Red Hat may immediately suspend performance and/or terminate this Agreement and any Program, and reserves its rights to exercise any and all legal and equitable remedies available to it.

9.2 For each Red Hat Product (or Partner product that incorporates a Red Hat Product or Service, in whole or in part) that Partner sells to an End User under a Program Appendix, Partner shall purchase the equivalent Red Hat Product with respect to such conditions as the term (1 or 3 years) and support level. For example, if the End User purchases a one year 24x7 support level Red Hat Enterprise Linux product from Partner, Partner shall purchase a one year Premium (24x7) Red Hat Product from Red Hat. Similarly, Partner is only authorized to resell the complete Red Hat Product it purchased and is not permitted to decouple the Red Hat Product or sell it in parts. For example, Partner will not purchase a one year Red Hat Product from Red Hat and then break it into multiple shorter increments of time for resale. Partner will work with Red Hat to ensure that its resale of Red Hat Products to End Users is consistent with the terms for the Red Hat Products purchased.

9.3 Without limiting the generality of Sections 9.1 or 9.2 above, Partner agrees: (i) not to modify the Red Hat Products in any manner unless agreed to by Red Hat in writing and (ii) not to use or resell the Red Hat Products in any manner or for any purpose not permitted by this Agreement, including, without limitation, for Partner's own internal or production use, other than as may be expressly permitted in the applicable Program Appendix or by any applicable mandatory rule of law. For certain Programs and only during the term of the Program, Red Hat may provide Partner with access to non-production, evaluation, development kits and/or not for resale (aka "NFR") Red Hat Products for the sole purpose of testing and/or supporting its partners and/or End Users on issues related to Partner's rights and obligations hereunder. Should Partner resell or use its access to such Red Hat Products for Partner's own internal or production use other than as expressly permitted in the applicable Program Appendix, Partner agrees to purchase the appropriate Red Hat Product(s) under Red Hat's standard terms for such resale and/or use, and to pay the applicable fee for all periods. This Agreement establishes the rights and obligations associated with Red Hat's Programs, Products and Services, and is not intended to limit Partner's rights to software code under the terms of an open source license.

## 10. Intellectual Property

Partner agrees that all trade name, trademark, service mark, copyright, patent, trade secret, domain name and all other intellectual and industrial property rights anywhere in the world, including moral rights, and all applications, provisional applications, registrations, continuations and renewals thereof, and all associated goodwill (present or future) in and to the Red Hat Products, are and will, as among the parties, be owned by and vested in Red Hat or its licensors, notwithstanding any use of terms such as "purchase," "sale" or the like within this

Agreement. Red Hat may provide access to third party software programs with the Red Hat Software that are not part of the Red Hat Software. These third party programs are (a) not required to run the Red Hat Software, (b) provided as a convenience, and (c) subject to their own license terms. The license terms either accompany the third party software programs and/or may be viewed at <http://www.redhat.com/licenses/thirdparty/eula.html>. If Partner does not agree to abide by the license terms for the third party software programs, then Partner may not install, use or distribute them.

#### **11. Limited Warranties, Limitation of Liability, Disclaimer of Damages and Insurance and Indemnity**

**11.1 General Representations and Warranties.** Red Hat represents and warrants that: (a) the Services will be performed in a professional and workmanlike manner by qualified personnel; (b) it has the authority to enter into this Agreement with Partner; and (c) to Red Hat's knowledge, Red Hat branded Software does not, at the time of delivery to Partner, include malicious code for the purpose of damaging or corrupting the Software.

**11.2 Disclaimer of Warranties.** EXCEPT AS SET FORTH IN SECTION 11.1 ABOVE, TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THE RED HAT PRODUCTS AND SERVICES ARE PROVIDED "AS IS" AND WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY, NON-INFRINGEMENT AND FITNESS FOR A PARTICULAR PURPOSE. Partner will make no representations or warranties on behalf of Red Hat regarding the Red Hat Products or Services in connection with the distribution of the Red Hat Products or Services or otherwise.

**11.3 Limitation of Liability.** TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, FOR ALL EVENTS AND CIRCUMSTANCES, RED HAT'S AND ITS AFFILIATES' AGGREGATE AND CUMULATIVE LIABILITY TO PARTNER AND ITS AFFILIATES ARISING OUT OF OR RELATING TO THIS AGREEMENT AND ANY ORDER FORM HEREUNDER, INCLUDING WITHOUT LIMITATION ON ACCOUNT OF PERFORMANCE OR NON-PERFORMANCE OF OBLIGATIONS, REGARDLESS OF THE FORM OF THE CAUSE OF ACTION, WHETHER IN CONTRACT, TORT (INCLUDING, WITHOUT LIMITATION, NEGLIGENCE), STATUTE OR OTHERWISE WILL BE LIMITED TO DIRECT DAMAGES AND WILL NOT EXCEED THE TOTAL AMOUNT PAID TO RED HAT AND ITS AFFILIATES BY PARTNER AND ITS AFFILIATES UNDER THIS AGREEMENT DURING THE TWELVE (12) MONTHS PRECEDING THE FIRST EVENT GIVING RISE TO LIABILITY FOR THE RED HAT PRODUCT OR SERVICE THAT IS THE SUBJECT MATTER OF THE CLAIM OR U.S. \$5,000.00, WHICHEVER IS GREATER. THE FOREGOING LIMITATION SHALL NOT APPLY TO CLAIMS FOR BODILY INJURY (INCLUDING DEATH) AND DAMAGE TO TANGIBLE PERSONAL PROPERTY CAUSED BY THE NEGLIGENCE OF RED HAT OR ITS EMPLOYEES.

**11.4 Disclaimer of Damages.** NOTWITHSTANDING ANYTHING TO THE CONTRARY CONTAINED IN THIS AGREEMENT OR ANY ORDER FORM, TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT WILL RED HAT OR ITS AFFILIATES BE LIABLE TO THE PARTNER OR ITS AFFILIATES FOR: ANY CLAIM BASED UPON A THIRD PARTY CLAIM; ANY INCIDENTAL, CONSEQUENTIAL, SPECIAL, INDIRECT, EXEMPLARY OR PUNITIVE DAMAGES, WHETHER ARISING IN TORT, CONTRACT, OR OTHERWISE; OR FOR ANY DAMAGES ARISING OUT OF OR IN CONNECTION WITH ANY MALFUNCTIONS, DELAYS, LOSS OF DATA, LOST PROFITS, LOST SAVINGS, INTERRUPTION OF SERVICE, LOSS OF BUSINESS OR ANTICIPATORY PROFITS, EVEN IF RED HAT OR ITS AFFILIATES HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Without limiting the generality of the foregoing disclaimer, Red Hat Products and Services are not specifically designed, manufactured or intended for use in (a) the planning, construction, maintenance, control or direct operation of nuclear facilities, (b) aircraft navigation, control or communication systems, weapons systems or (c) direct life support systems. Partner agrees that it is solely responsible for the results obtained from the use of the Red Hat Products and Services.

**11.5 Insurance and Indemnity.** Partner shall put in place and at all times maintain during the Term and for two (2) years thereafter, at its own cost and expense, appropriate and sufficient commercial general liability insurance with a reputable insurance company to cover the activities of Partner contemplated in this Agreement. The premiums for these policies of insurance shall be the responsibility of Partner. Upon request, Partner will provide Red Hat certificates of insurance for all insurance coverage. Partner will indemnify and hold harmless Red Hat from any and all liability, losses, costs, damages or expenses, including reasonable attorney's, solicitor's or legal fees and costs, resulting from or arising out of third party demands or claims against Red Hat relating to any of Partner's actions including, but not limited to, performance or non-performance under this Agreement.

#### **12. Publicity and Confidentiality**

**12.1 Publicity.** Partner will keep confidential and will not disclose, market or advertise to third parties the terms of this Agreement (including the fees paid hereunder). Partner or Red Hat may reference its relationship with the other, in the normal course of business including during earnings calls, discussions with analysts, meetings with the press, customer briefings, general marketing activities and in regulatory filings. Neither Party will issue formal press releases or other similar activities referencing the other Party without the written consent of the other Party.

**12.2 Confidential Information.** The parties agree that Confidential Information provided under this Agreement will be held and maintained in confidence and each Party will use at least the same degree of care to protect such Confidential Information that it uses to protect its own confidential information, but in no event less than reasonable care. The recipient may use Confidential Information of the other Party only for the purposes of exercising its rights and fulfilling its obligations under this Agreement. Confidential Information may be disclosed only to Affiliates, employees, agents and contractors with a need to know, and to its auditors and legal counsel, provided in each case they are under a written obligation or legal duty to keep such information confidential using standards of confidentiality not less restrictive than those required by this Agreement. "Confidential Information" means all information and materials disclosed by either Party to the other



during the Term that is either marked confidential or, by the nature of the information or the circumstances surrounding its disclosure, would reasonably be considered confidential. Confidential Information does not include information that (i) is or later becomes publicly available without breach of this Agreement, or is disclosed by the disclosing Party without obligation of confidentiality; (ii) is known to the recipient at the time of disclosure by the disclosing Party; (iii) is independently developed by the recipient without use of the Confidential Information; (iv) becomes lawfully known or available to the recipient without restriction from a source having the lawful right to disclose the information; (v) is generally known or easily ascertainable by parties of ordinary skill in the business of the recipient; or (vi) is software code in either object code or source code form that is licensed under an open source license. Both Parties agree that obligations of confidentiality will exist for a period of two (2) years following initial disclosure of the particular Confidential Information.

### 13. Termination

**13.1 Term.** This Agreement begins on the Effective Date and continues until the expiration or termination of all applicable Program Appendices ("Term"). The term of each Program Appendix is independent of the term of any other Program Appendix. "Effective Date" means the first date when both Parties have fully accepted or signed the Agreement.

**13.2 Termination by Red Hat or Partner.** Red Hat may (without prejudice to any other right or remedy) terminate this Agreement in whole or in part (including any Program Appendix and Partner's participation in any Program) for any reason at any time upon ninety (90) days prior written notice to Partner. If Partner or Red Hat breaches the terms of this Agreement, and the breach is not cured within thirty (30) days after written notice of the breach is given to the breaching party (except for payment obligations, in which case five (5) days), then the other party may, by giving written notice of termination to the breaching party, terminate this Agreement in whole or in part (including any Program Appendix and Partner's participation in any Program) without prejudice to any other right or remedy; unless a shorter cure period is otherwise stated under this Agreement or in the applicable Program Appendix and provided that no cure period is required for a breach of Sections 8, 9.1, 12.2 or 14.3 hereof.

**13.3 Effect of Agreement Termination or Expiration.** Termination or expiration of this Agreement in whole for any reason will immediately terminate Partner's participation in any and all Programs. Upon such termination or expiration, Partner will immediately (i) cease referring to itself as a Red Hat Partner, or any other title associated with the Program, and using those titles in any communication or advertising; (ii) to the extent applicable, cease all promotion, demonstration, sale(s) and distribution of the Red Hat Products and/or Services; (iii) cease all use of the Red Hat Marks; (iv) return or destroy, at Red Hat's option, all printed materials containing Red Hat Marks, including all documentation and Promotional Materials; and (v) remit all fees due to Red Hat within fifteen (15) days of such termination or expiration. If the termination is not the result of a Partner breach, the Partner will be entitled to sell, for a period of no longer than sixty (60) days after termination, any of its inventory of Red Hat Products (subject to this Agreement) for which Red Hat has been fully paid and that are required to fulfill any unperformed contracts of Partner outstanding at the date of termination or expiration. All rights and obligations of the Parties under this Agreement and all applicable Program Appendices will terminate immediately, except that obligations under Sections 6, 7, 8.2, 10, 11.2 – 11.5, 12, 13.3 - 13.4, 14.1 - 14.3, 14.5, and 15 hereof, and any Partner payment obligations will survive such termination or expiration. Termination of this Agreement shall not affect any agreements between Red Hat and any End User.

**13.4 No Compensation.** Upon termination or expiration of this Agreement for any reason or at any time, Red Hat will have no obligation to Partner (except as Red Hat otherwise may be liable to Partner for Red Hat's material breach of this Agreement), or to any employee, agent or representative of Partner, for compensation or for damages of any kind, whether on account of the loss by Partner or such employee, agent or representative of present or prospective sales, investments, compensation or goodwill. Partner hereby indemnifies and holds Red Hat harmless from and against any and all claims, costs, damages and liabilities whatsoever asserted by any employee, agent or representative of Partner under any applicable cancellation, termination, labor, social security, payments under national insurance, or other laws or regulations.

### 14. General Provisions

**14.1 Governing Law and Venue.** This Agreement shall be governed by and construed according to the laws of the Republic of India, excluding the conflict of laws, provisions thereof. All disputes, differences or questions arising out of this Agreement including the interpretation of the terms herein or with regard to the obligations, failure or breach of any terms thereof by any of the Parties and/or compensation/damages payable under this Agreement or of any matter whatsoever arising under this Agreement, which have not been settled amicably within thirty (30) days from the commencement of informal negotiation, shall be referred by either Party to arbitration in accordance with the Arbitration and Conciliation Act 1996 (laws of India) and the award made in pursuance thereof shall be binding on the Parties. The seat of Arbitration shall be in Mumbai, India. The proceedings of arbitration shall be conducted in English. The arbitral tribunal shall consist of one (1) arbitrator to be appointed by the mutual agreement of the Parties, failing which the appointment shall be made under the terms of the said Arbitration and Conciliation Act. The decision or award so given by the arbitrator shall be final and binding on the Parties hereto. Any Party may at any time without regard to any notice periods required by the provisions hereof, and as often as is necessary or appropriate, seek interlocutory, provisional or interim relief or remedies from any court of competent jurisdiction (including, without limitation, to the extent available under applicable law, a temporary restraining order or preliminary injunction).

**14.2 Notices.** All notices, consents, waivers and other communications required or permitted by this Agreement must be in English, in writing, and will be deemed given when (a) delivered to the appropriate address by hand or by nationally recognized overnight courier service (costs prepaid); (b) sent by facsimile or e-mail with written confirmation of transmission by the transmitting equipment delivered promptly



thereafter; or (c) received by the addressee, if sent by certified mail, return receipt requested, in each case to the following addresses, facsimile numbers or e-mail addresses and marked to the attention of the person (by name or title) designated hereafter (or to such other address, facsimile number, e-mail address or person as a party hereto may designate by notice to the other parties hereto): For Partner: the most current address/fax number indicated by Partner to Red Hat in writing; . For Red Hat: A-201 Supreme Business Park, Hiranandani Gardens, Powai, Mumbai – 400 076 with a copy to: VP, Business Affairs, Red Hat, Inc., 100 East Davie Street, Raleigh, North Carolina 27601; Facsimile: +1 (919) 754-3729.

#### 14.3 Compliance with Law and Export Controls.

**14.3.1** As between Red Hat and Partner, Partner (a) understands that countries, including the U.S., may restrict the import, use or export of encryption products and other controlled materials (which may include Red Hat Products, Services or related technical information) ("**Controlled Materials**"); (b) will be solely responsible for compliance with any such import, use, or export restrictions in connection with Partner's use, sale and/or distribution of Controlled Materials; and (c) will be the importer and exporter of record of the Controlled Materials that Partner uses, sells and/or distributes, and is responsible for all associated obligations, including but not limited to, paying all import duties and tariffs, and obtaining any required regulatory approvals, registrations, and export and import licenses.

**14.3.2** Partner will comply with all applicable laws and regulations including all applicable anti-corruption laws and regulations, such as the U.S. Foreign Corrupt Practices Act and the U.K. Bribery Act (collectively, the "**Anti-Corruption Laws**"), and will not engage in conduct that would cause Red Hat to violate any law or regulation including the Anti-Corruption Laws. Among other conduct, the Anti-Corruption Laws prohibit Partner, directly or indirectly, from receiving anything of value from, or offering anything of value to, either private parties or government or public officials with the intent that the recipient perform improperly a relevant function or activity or a person be rewarded for improper performance. A government or public official includes employees and officers of a government agency, department or instrumentality, as well as the employees or officers of government-owned or government-controlled companies, public international organizations, political parties and candidates for political office. Partner represents and warrants that none of its significant shareholders, owners, partners, officers or directors ("**Partner Officials**") is a government or public official and that if any of the Partner Officials becomes a government or public official, Partner will immediately notify Red Hat in writing in accordance with the terms of this Agreement. Partner will not permit its resellers or partners to do anything that would violate or cause Red Hat to violate any law or regulation including the Anti-Corruption Laws. If Red Hat believes that Partner (or any of its resellers or partners) has breached or may breach any of the provisions of this Section or a notice is provided pursuant to this Section, Red Hat may immediately terminate the Agreement or stop performing its obligations (including making payments, if applicable) without any liability to Partner.

**14.3.3** As required by U.S. law, Partner represents and warrants that it: (a) understands that certain of the Controlled Materials are of U.S. origin and subject to export controls under the U.S. Export Administration Regulations (the "**EAR**"); (b) is not located in any country listed in Country Group E:1 in Supplement No. 1 to part 740 of the EAR; (c) will not export, re-export or transfer the Controlled Materials to (1) any prohibited destination, (2) anyone who has been prohibited from participating in U.S. export transactions by any federal agency of the U.S. government or (3) any end user who Partner knows or has reason to know will use them in the design, development or production of nuclear, chemical or biological weapons, or rocket systems, space launch vehicles, or sounding rockets, or unmanned air vehicle systems; and (d) understands and agrees that if it is in the United States and exports, re-exports or transfers the Controlled Materials to eligible end users, it will, to the extent required by EAR Section 740.17(e), submit semi-annual reports to the U.S. Commerce Department's Bureau of Industry and Security, that include the name and address (including country) of each transferee.

**14.3.4** Partner will not engage in any activity that is prohibited under the Anti-boycotting Act (50 USCA 2407, Part 760).

**14.3.5** Partner acknowledges that Red Hat may be prohibited from providing Controlled Material(s) if Red Hat has knowledge or reason to believe that a violation of the applicable law will or has occurred.

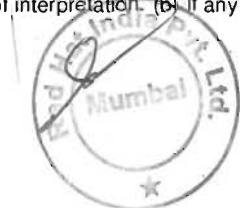
**14.4 No Assignment.** This Agreement is only assignable by Partner with Red Hat's prior written consent. Any assignment made by Partner without Red Hat's prior written consent will be void and Red Hat will not be required to recognize the assignment. Red Hat may assign any or all of its rights and delegate or novate any or all of its obligations hereunder without the prior approval of Partner. At the request of Red Hat, Partner will execute any papers or documents reasonably necessary to give effect to such assignment or novation. Partner shall promptly notify Red Hat of any material change to its ownership structure.

**14.5 Independent Contractor.** Partner and Red Hat are independent contractors for all purposes, without express or implied authority to bind the other. Neither Party nor its employees, agents or contractors is entitled to any employee benefits of the other. Each Party will be responsible for all costs and expenses incident to performing its business. Nothing in this Agreement shall be deemed to constitute a partnership or to create a relationship of principal and agent between the Parties for any purpose.

**14.6 Force Majeure.** Neither Party will be liable for nonperformance or delays caused by acts of God, wars, riots, strikes, fires, floods, earthquakes, government restrictions, terrorist acts or other causes beyond its reasonable control. Upon the occurrence of any of the foregoing, the date of performance will be deferred for a period of time equal to the time lost by reason of the delay. This section does not relieve either Party of its obligation(s) to make payments.

#### 15. Miscellaneous.

(a) All headings contained in this Agreement are inserted for identification and convenience, and will not be deemed part of this Agreement for purposes of interpretation. (b) If any provision of this Agreement is held invalid or unenforceable for any reason, but would



Registered  
Signature

be valid and enforceable if appropriately modified, then such provision will apply with the modification necessary to make it valid and enforceable. If such provision cannot be so modified, the Parties agree that such invalidity will not affect the validity of the remaining provisions of the Agreement. (c) The delay or failure of either Party to exercise any rights hereunder will not constitute or be deemed a waiver or forfeiture of such rights. No waiver will be valid unless in writing and signed by an authorized representative of the Party against whom such waiver or forfeiture is sought to be enforced. (d) This Agreement will constitute the exclusive terms and conditions with respect to the subject matter of this Agreement, notwithstanding any different or additional terms that may be contained in the form of purchase order or other document used by Partner, including subsequent to the date of this Agreement. This Agreement contains the final, complete and exclusive statement of the agreement between the Parties with respect to the transactions contemplated herein and all prior written agreements and all prior and contemporaneous oral agreements with respect to the subject matter of this Agreement are contained herein. If there is a conflict between the Partner Terms and Conditions in this Appendix 1 and any applicable Program Appendix, Program Guide(s), End User License Agreement or any other Program literature, the terms will be interpreted in the following order (1) the applicable Program Appendix, (2) the Partner Terms and Conditions, (3) the End User License Agreement, (4) the Program Guide and (5) any other Program literature. (e) Except as otherwise provided in Section 2, this Agreement may not be changed except by written instrument signed by authorized signatories of the Parties, that makes specific reference to this Agreement. (f) This Agreement may be executed in counterparts, each of which will be deemed an original and all of which will constitute one and the same instrument. The Parties may exchange electronic signatures and signature pages electronically and such signatures will be effective to bind the Parties. (g) The Parties acknowledge that they have each reviewed and participated in settling the terms of this Agreement. Furthermore, the Parties agree that any rule of construction to the effect that any ambiguities are to be resolved against the drafting Party will not be employed in the interpretation or construction of this Agreement.

#### 16. Authorized Signatures.

Partner may assent to this Agreement by (i) accepting this Agreement in an on-line transaction at the Partner Portal (<http://www.redhat.com/en/partners>) or a Red Hat designated successor to such URL, (ii) electronically signing the document via a Red Hat acceptable electronic signature tool and emailing to the email address identified in (a) below, or (iii) signing a physical copy of this Agreement and forwarding ALL pages of the signed Agreement via (a) email to [globalcontracts@redhat.com](mailto:globalcontracts@redhat.com) via pdf, (b) fax to +65-6490-4201, or (c) mail to Red Hat Asia Pacific Pte Ltd, Attn: Contract Administrator, 8 Shenton Way, #10-00, Singapore 068811.



A handwritten signature in blue ink, appearing to be "Ranjit Singh", written over a faint, larger signature.

Registrar  
Maharaja Ranjit Singh  
Punjab Technical University, Bathinda

1. **Background and Purpose.** This Program Appendix ("Appendix") establishes the terms and conditions under which Partner will participate in the Red Hat Academy Program ("RHA" or "Program") in the Territory. Under the Program, Red Hat provides Partner an Internet deployed and managed Curriculum, Software, and Services and Partner provides the facilities and Teachers and delivers the Courses to Students as set forth in this Appendix. Capitalized terms not defined in this Appendix shall have the meaning given to them in the Partner Agreement between the parties, including the Partner Terms and Conditions.

2. **Definitions.**

"Partner" means a qualified university, academic institution, or entity with a workforce development program that acquires the Red Hat Academy Subscription for its own use to be provided to Partner's Students and without the right to directly or indirectly sell, resell, remarket, or, in whole or in part, otherwise distribute Red Hat Academy. Eligibility of a Partner is determined at Red Hat's sole and exclusive discretion.

"Appendix Effective Date" means the first date when both parties have fully accepted or signed the Partner Agreement including this Appendix.

"Curriculum" means the Courses, Course Materials, Manuals, and any and all instructional content, assessment, tests, and instructional materials included therein whether in print or electronic format, provided by Red Hat as part of the Red Hat Academy Program.

"Course" or "Courses" means the specific courses or units of study that may be taught under the RHA and as set forth in Exhibit A, Exhibit C and as otherwise offered by Red Hat under the Red Hat Academy Program.

"Course Materials" means any and all instructional and educational content provided directly or indirectly by Red Hat, including without limitation designs, course names and numbers, course materials, Manuals, methodologies, software, scripts, processes, instructional materials, slides, notes, lab exercises, assessment tools, quizzes, tests, answer keys, scripts, files, instructor guides and/or any other materials in any format, provided in connection with the Curriculum whether distributed in print, electronic, or video format, including, without limitation, Student Kits, Exams, Exam Kits, and Exam Authorizations.

"Documentation" means user manuals, training materials, software descriptions and specifications, brochures, technical manuals, license agreements, supporting materials and other printed information provided in connection with the Learning Services, in any format.

"Exam" means a Red Hat performance based certification exam.

"Manuals" means those manuals used by Red Hat instructors in instructing Technical Training courses. Manuals are different from the Course Materials and shall not be used in or brought into the Courses.

"Program Subscription Fee" means the annual subscription fee paid by Partner that provides Curriculum, Software and Services to the Partner and enables Partner to teach the Curriculum to Students as set forth herein or in separate mutually agreed order.

"Services" means Learning Services provided as part of the Program.

"Student(s)" is a person enrolled full or part-time in the Partner's school, institution of learning and admitted to a degree awarding program (e.g. diploma, or degree, program, or certificate program) and attends a Course as taught by a Teacher.

"Student Fee" shall mean the per Student per Course fee set forth in Exhibit A of this Appendix, if applicable.

"Software" means Red Hat Enterprise Linux, JBoss Enterprise Middleware and other software programs branded by Red Hat, its Affiliates and/or third parties including all modifications, additions or further enhancements delivered by Red Hat.

"Teacher" is a Partner employee or contractor who meets all qualifications determined by Red Hat who teaches and instructs Courses for the Partner.

"Technical Training" means the courses and certification exams offered publicly and commercially by Red Hat on an open enrollment or on-site basis, including the Manuals used by Red Hat instructors in instructing technical training courses and the Student Manuals included in the Course

### 3. License and Ownership

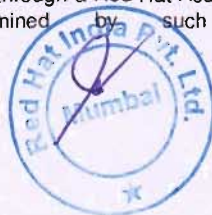
- 3.1 License Grant.** Upon Partner paying the applicable Fee(s), Red Hat grants Partner a non-exclusive, revocable, fully paid license, with no right to sublicense (including, but not limited to, sell), to use the Curriculum and Course Materials pursuant to the Agreement as follows: (a) distribution of Course Materials is limited to one (1) copy per Instructor and one (1) copy per Student; (b) Curriculum are provided solely for the use by Instructors and Students in the Course and such Curriculum may not be copied or transferred without the prior written consent of Red Hat; and (c) Curriculum must be taught sequentially and completed by Partner in no less than eight (8) weeks. The Curriculum shall not be used to teach or instruct to any person who is not officially enrolled as a Student and admitted to a degree, diploma, or certificate awarding program of Partner.

Notwithstanding the foregoing, all Curriculum is the sole property of Red Hat and its licensors, and are copyrighted by Red Hat unless otherwise indicated therein. Red Hat and its licensors will have sole ownership of any and all Curriculum including but not limited to methodologies, software, processes, or other intellectual property developed during the performance of the Services. Red Hat will provide Software for the use by the Partner and Students in the Course. Use of the Software is subject to the End User License Agreement set forth [http://www.redhat.com/licenses/rhel\\_rha\\_eula.html](http://www.redhat.com/licenses/rhel_rha_eula.html). The Services may only be used by Partner. Partner is solely responsible for providing prerequisite skills, assessing its Students' suitability for use of the Curriculum, delivery of all instruction to Students, all grading and assessment of Students, and handling of all Student and Teacher information. Partner hereby agrees that Software used outside of the Program is covered under terms and conditions of the Enterprise Agreement including Appendix 1, Subscription Services, set forth at [www.redhat.com/licenses](http://www.redhat.com/licenses), which may be amended from time to time by Red Hat in its sole discretion.

- 3.2 Retained Rights.** No part of the Curriculum may be photocopied or duplicated by any means, whether photographic, or electronic, or mechanical, or sold or distributed in any other delivery format whether in print or electronic, or used as the basis for any other training product or service, without written permission from Red Hat. Partner's rights in the Curriculum are limited to those license rights expressly granted under this Appendix, and Red Hat retains all rights not expressly granted. Partner will not (a) modify the Curriculum in any manner; or (b) use the Curriculum for any purpose not specifically permitted by this Appendix. Red Hat and its licensors will own and retain all right, title, and interest in the Curriculum and all intellectual property rights inherent therein, including without limitation all changes and improvements requested or suggested by Partner, notwithstanding any use of terms such as "purchase", "sale", or the like within the Agreement. Partner represents and warrants that its use of the Curriculum will be to fulfill obligations under this Appendix. Any unauthorized use of the Curriculum will be deemed a material breach of the Agreement. Prior to providing Students with access to Curriculum, Partner will require each Student to sign or otherwise assent (in a binding manner) to the Enterprise Agreement with Appendix 2, Training, Training Units, and Consulting Units set forth at <http://www.redhat.com/licenses/>, which may be amended from time to time by Red Hat in its sole discretion. Partner's internal use of Courses or Exams is subject to the Enterprise Agreement with Appendix 2, Training, Training Units, and Consulting Units set forth at <http://www.redhat.com/licenses/>, which may be amended from time to time by Red Hat in its sole discretion.
- 3.3 Permitted Marks.** Partner may only use the logo(s) set forth in Exhibit B to the Program, based upon the Partner level in Exhibit A, in conjunction with the promotion of Partner providing Red Hat Academy Courses to Students. Partner may use Red Hat Distinguished Academy Logo set forth in Exhibit B if all Partner's Teachers are certified Red Hat Professionals for the Red Hat Software Courses they teach. All other Partners may use the Red Hat Academy Logo set forth in Exhibit B. Partner may not use this logo in general advertisements or marketing materials that do not specifically address or support the sale of Courses under the Program.
- 3.4 Copyright Notices.** Partner will ensure that all copies of the Curriculum in Partner's possession or control incorporate copyright and other proprietary notices in the same manner that Red Hat incorporates such notices in the Curriculum or in any manner reasonably requested by Red Hat. Partner will promptly notify Red Hat in writing upon its discovery of any unauthorized use of the Curriculum or infringement of the Curriculum or Red Hat's proprietary rights in the Curriculum.
- 3.5 Use of Red Hat Software.** Any use of Red Hat Software is subject to Red Hat's standard agreements including the Enterprise Agreement set forth at [www.redhat.com/licenses](http://www.redhat.com/licenses), the applicable Red Hat End User Agreement(s) set forth at [www.redhat.com/licenses/eulas](http://www.redhat.com/licenses/eulas) and/or any other mutually signed written agreement with Red Hat as applicable.

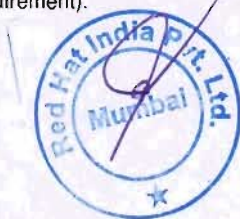
### 4. Fees and Payment

- 4.1 General.** Any fees or charges ("Fees") will be due and payable by Partner in accordance with the Agreement. Partner may purchase from Red Hat directly, or through an Authorized Red Hat Reseller Partner. If Partner acquires Subscriptions, Courses and/or Services through a Red Hat Academy Program Reseller, the Fees for such Subscriptions, Courses and/or Services will be determined by such Reseller and may vary from the Red Hat Fees.



A handwritten signature in blue ink, appearing to be "Maharaja Ranjit Singh".

- 4.2 **Direct.** If Partner purchases directly from Red Hat, Fees will be identified by Red Hat in an Order Form and are (a) due upon Red Hat's acceptance of an Order Form, and (b) payable in accordance with this section. All Fees are stated in United States Dollars. Partner must pay all Fees within thirty (30) days from the date of invoice, without regard for when, and whether, Partner collects payment from a Student. Fees do not include out-of-pocket expenses or shipping costs. Partner agrees to reimburse Red Hat for its reasonable expenses incurred in performing the Services including travel, lodging and non-routine supplies, in accordance with Red Hat's travel and expense policies. All Fees are non-refundable. Red Hat will invoice Partner upon Red Hat's receipt of a purchase order for any amounts due to Red Hat pursuant to this Agreement; provided, however, that the terms of such purchase order will not amend, supplement or modify the terms of this Agreement or be binding on Red Hat. Red Hat reserves the right to change the credit terms or terminate the Agreement if Red Hat has not received payment within five (5) days of when it is due. Renewal Fees will be the same price listed in the Order Form.
5. **Publicity.** Red Hat and Partner shall each have the right to identify Partner as a Red Hat Academy partner, provided, however, that for any press release, media alert, or other public communication, each party shall obtain the other party's review and written consent before publishing such information in any form.
6. **Term, Termination and Mandatory Disclosure**
- 6.1 **Term.** Unless otherwise specified in writing by the parties, the initial term of this Appendix shall be one (1) year (the "Initial Term"). Thereafter, the term for this Appendix shall renew for successive terms of one (1) year each (each, a "Renewal Term"), with each Renewal Term beginning on the anniversary of the Initial Term unless either party gives written notice to the other of its intention not to renew at least sixty (60) days prior to the commencement of the next term. As used herein, the Initial Term and each Renewal Term individually refer to a "Term" and collectively the "Appendix Term."
- 6.2 **Termination.**
- 6.2.1 **Termination for Breach.** Notwithstanding anything to the contrary Red Hat may terminate this Appendix as provided for under Section 13.2 of the **Partner Terms and Conditions Appendix**, or in the event (a) Partner fails to pay an invoice when due, (b) Partner commits a breach of this Agreement and fails to remedy that breach within 30 days of receipt of notice of breach, or (c) as otherwise provided in the Agreement. Partner may terminate the Appendix in the event Red Hat commits a material breach of the Appendix and fails to remedy such breach within 30 days of receipt of notice of material breach.
- 6.2.2 **Termination for Convenience.** Either Party may terminate this Appendix, without prejudice to any other right or remedy, for any reason upon sixty (60) days notice in writing to the other Party.
- 6.3 **Survival.** Upon expiration or termination, all rights and obligations of the Parties under this Appendix will terminate immediately except, Section 3.2, 3.4, 4.2, Section 3 of Exhibit A, and Exhibit C will survive such termination or expiration. Termination of this Agreement shall not affect any agreements between Red Hat and any Students.
- 6.4 **Mandatory Disclosure.** For the avoidance of doubt, Partner may disclose the existence of this agreement and relevant terms, if it is required to do so by applicable law or regulation. Before disclosing the information, to the extent reasonably practical, Partner shall first notify Red Hat of the disclosure requirement (if it can provide notice without breaching any legal or regulatory requirement).



Registrar  
Maharaja Ranjit Singh  
Punjab Technical University, Bathinda

**1. Red Hat Academy Subscription.** Red Hat Academy Subscriptions contain the following:

- (a) Authorization and access to, and use of, the Curriculum in accordance with the terms set forth herein. The Program Fee includes Curriculum and Fees for the initial two hundred (200) Students. Additional Student Curriculum access may be purchased on a per Student basis;
- (b) Exams and exam delivery are not included in the Red Hat Academy Subscription and may be purchased separately; and
- (c) A list of standard Course offerings in the Red Hat Academy is available from Red Hat or a Red Hat Academy Reseller.

**2. Partner Requirements.**

- (a) Partner is solely responsible for providing pre-requisite skills, assessing Student's suitability for use of the Course(s) and Curriculum, appropriate use of any internet access, delivery of all instruction to Students, all grading and assessment of Students, and handling of all Student information.
- (b) Partner must notify Red Hat of the number of Students in each Course within one business day after the Course begins.
- (c) Partner will provide Students with access to Student software labs. Access to such labs may be purchased through a Red Hat Lab Partner, through a third party cloud hosting provider authorized to provide such software lab access, or may be provided by the Partner through its own resources.
- (d) Partner shall maintain at least one (1) Red Hat Certified Professional during the Appendix Term. Partner will notify Red Hat upon appointment or replacement of Red Hat Certified Professionals.

**3. Red Hat Academy Subscription Fees.** Partner shall pay the Program Fee, if applicable, annually, before the beginning of the Initial Term and each Renewal Term. Courses and additional services can be ordered by Partner from a Red Hat Academy Reseller. All Red Hat Services purchased during the Appendix Term must be used within each one (1) year Term in which it was purchased or such Red Hat Services shall be forfeited.



Registrar  
Maharaja Ranjit Singh  
Punjab Technical University, Bathinda

Red Hat Academy:

**RED HAT®  
ACADEMY**

**RED HAT®  
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ACADEMY**

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Maharaja Ranjit Singh  
Punjab Technical University, Bathinda

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**EXHIBIT C**  
**RED HAT ACADEMY, COURSES, AND ADDITIONAL SERVICES**

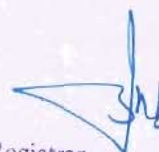
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**1. Red Hat Services**

SKU	Title	Description	Price	Term
RHA100	Red Hat Academy Standard Program	Access for 200 students to approved Red Hat Academy courses (e.g. RH124 + RH134, RH254, CL110, JB125, JB225)	\$0	1 year
RHA101	Red Hat Academy Standard Program: Add-on Student	Access for 1 student to approved Red Hat Academy courses (e.g. RH124 + RH134, RH254, CL110, JB125, JB225)	\$0	1 year

Note 1: All Red Hat Academy Program services purchased during the Appendix Term must be used within each one (1) year Term in which it was purchased or such services shall be forfeited.

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Registrar  
Maharaja Ranjit Singh  
Punjab Technical University, Bathinda





Partnership Working Agreement, between;

**Skills Anytime**  
and  
**Maharaja Ranjit Singh Punjab Technical University**

Oct 2016

Web: [www.skillsanytime.in](http://www.skillsanytime.in)  
Enquiries: [enquiries@skillsanytime.in](mailto:enquiries@skillsanytime.in)

**bksb India Private Limited**  
Shop 2a, Taj Hotel Chandigarh  
Block No 17, Sector 17 A, Chandigarh 160017

## 1. AGREEMENT

### 1.1) Parties

This agreement is between,

1.1.1) **Skills Anytime** of bksb India Private Limited, based at Shop 2a, Taj Hotel, Block No 17, Chandigarh, Sector 17-A, India, a subsidiary company of bksb Limited UK, based at i2 Centre, Hamilton Court, Hamilton Way, Mansfield, Nottinghamshire NG18 5FB United Kingdom, and;

1.1.2) Maharaja Ranjit Singh Punjab Technical University, Bhatinda, India.

### 1.2) About Skills Anytime

1.2.1) Skills Anytime provide online, hosted interactive English language assessments and learning courses, designed to provide individualized learning pathways for English language development. The Skills Anytime product range consists of English Anytime and Speaking, Listening, Reading, Writing ('SLRW') as student programmes/resources, and which are supported by a tutor interface to manage the learning process. Skills Anytime was launched by bksb India Private Limited, founded January 2015, as a subsidiary company of bksb Limited.

1.2.2) bksb Limited is the award-winning UK-based assessment and resource provider, based in Mansfield, Nottinghamshire, UK. bksb has been established for 20 years and currently provides solutions to over 80% of the Further Education colleges in the UK, as well as thousands of other institutions, including universities, training providers, schools, private and public sector organizations, as the largest and most successful online skills development company in the United Kingdom.

1.2.3) bksb Limited is a company wholly owned by Vision West Nottinghamshire College, based at Derby Road, Mansfield, Nottinghamshire NG18 5BH United Kingdom.

### 1.3) About Maharaja Ranjit Singh Punjab Technical University (MRSPTU)

1.3.1) **Maharaja Ranjit Singh Punjab Technical University (MRSPTU)** (formerly part of Punjab Technical University (PTU)) is a State technical university of Punjab located in Bhatinda. It was established in 2014 to promote technical, management and pharmaceutical education in the state of Punjab at the degree level and above. Being an education and research university, it has a mandate to set up centers of excellence in emerging technologies for promoting training and research & development in these areas. This University has jurisdiction up to 11 districts i.e. Bathinda, Ferozepur, Moga, Faridkot, Sri Muktsar Sahib, Barnala, Mansa, Sangrur, Patiala, Fatehgarh Sahib, Fazilka.

## 2. SKILLS ANYTIME PRODUCTS

The Skills Anytime product range comprises interactive and online learning for English language, accessible on all types of devices, including **PC, Laptop, Tablet, iPad, Android** and cell phones (**Smart Phones**). The system is secured by unique login and the platform is hosted on Amazon servers. Skills Anytime is designed to guide a user through each step of the learning process, and is fully individualised to each users' requirements.

The system also has a tutor and administrator login function. This enables teachers and managers to track the progress of each individual, group/classroom or entire organisation. It can also allow teachers to manage their classrooms and identify collective learning needs, and share student progress information.

The Skills Anytime product range is hosted on an online portal, bksbLIVE2, which allows secure access on any device with internet capability. bksbLIVE2 is also the interface which hosts all the products in the Skills Anytime English language range, for English Anytime, and SLRW, which is detailed as follows:

### 2.1 English Anytime

#### USER INTERFACE

- 2.1.1 Access
  - Each user of the Skills Anytime system is created on the bksbLIVE2 platform, either singularly by the system administrator, a tutor, and/or via the mass-upload function (managed by bksb). Once a user is created on the system, they are able to use their unique login ID to access (and customize) their profile and work through the modules (products) as detailed below.

#### USER PRODUCTS

- 2.1.2 Interactive Initial Assessment
  - A user will undertake the assessment to identify their current level of English language ability. The assessment will define the starting level and Diagnostic Assessment level to undertake (automatically populating the user's interface with the required level Diagnostic at 2.1.3).
- 2.1.3 Interactive Diagnostic Assessment
  - This assessment is designed to identify specific skill gaps or weaknesses at the user's working level. It will also generate an Individual Learning Plan (ILP) of topic areas which the user will need to work through at 2.1.4 and 2.1.5.
- 2.1.4 Interactive Learning Resources
  - These learning resources (each topic) populates in the user's ILP and provides modular, self-marking resources which are designed to build up knowledge, at the appropriate level, in that particular topic area.
- 2.1.5 Interactive Skill Checks
  - The Skill Checks sit alongside the Learning Resource within the user's ILP, and are assigned to each topic area. These are short, topic-tests to verify (test) competence of learning from the Learning Resource stage. Completion of the Skill Check also generates a 'tick' (pass) in the tracking grid (see 2.1.6) for that user, for that particular topic on the designated level.



#### TUTOR/ADMINISTRATOR ACCESS

- 2.1.6 Tutor Functions
  - Tutors and managers are able to login to bksbLIVE2 (using allocated, unique tutor ID logins) and manage the data of all individuals and/or groups and/or University users within the system. They are able to export these results for evidence of individual and/or group progress, and track individual and group achievement through modules.
- 2.1.7 Administrator Functions
  - Administrators can manage the settings of the overall University/institution platform in the background. This is typically one (IT based) member of the team and guidance is provided by bksb UK.

#### 2.2. Speaking, Listening, Reading, Writing (SLRW)

The components of which are;

#### USER INTERFACE


- 2.2.1 Access
  - Each user of the SLRW system is created on the bksbLIVE2 platform, either singularly by the system administrator, a tutor, and/or via the mass-upload function (managed by bksb). Once a user is created on the system, they are able to use their unique login ID to access (and customize) their profile and work through the modules (products) as detailed below.

#### USER PRODUCTS

- 2.2.2 SLRW Products
  - A user can undertake exercises specific for developing skills in English language reading, writing, speaking and listening. Unlike English Anytime, the SLRW range offers users the ability to move freely between levels and disciplines at the click of a button.

The stages of learning range across 5 levels, from Beginner, Lower Intermediate, Intermediate, Upper Intermediate and Advanced, and users can navigate to whichever level of learning they wish to undertake at any given time, using the menu tabs on their home screen.

The users can also select either Reading, Writing, Speaking or Listening at any of the 5 levels.



#### TUTOR/ADMINISTRATOR ACCESS

- 2.2.3 Tutor Functions
  - The SLRW product is a self-study programme and does not have tutor management and reporting functions.
- 2.2.4 Administrator Functions
  - As with English Anytime, Administrators can manage the settings of the overall institution platform in the background. This is typically one (IT based) member of the team and guidance is provided by bksb UK.

### 3. TERMS OF THE AGREEMENT

The Agreement is for

3.1 One day workshop for 100 English Language teachers of MRSPTU, free of charge to be given by Skills Anytime. MRSPTU will arrange and coordinate the workshop at a mutually agreed and convenient date and venue for which Skills Anytime will provide the trainer(s). Travelling, Lodging and Boarding of Skills Anytime training team will be borne by MRSPTU.

3.2 Student Learners at MRSPTU and affiliated colleges to be allocated the Skills Anytime Programme (inclusive of English Anytime and SLRW) on Licence form and for the duration of 12 months of the agreed start date i.e. 1<sup>st</sup> Jan 2017 at a subsidized price of 500 INR plus taxes per learner. The number of these learners are expected to be around 5000.

3.3 Faculty at MRSPTU and affiliated colleges to be allocated the Skills Anytime Programme (inclusive of English and SLRW) on Licence form free of charges and for duration of 12 months starting 1<sup>st</sup> Jan 2017. All faculty members of the MRSPTU university, its constituent colleges and Two faculty members from each affiliated institution who are engaged in teaching communication skills course to the students shall be extended this facility.

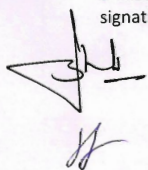
3.4 Fee for the training modules will be paid directly by students online through an App via safe payment gateway to Skills Anytime .

3.5 The Skill Anytime team will support Maharaja Ranjit Singh Punjab Technical University, Bhatinda to manage the process and train the faculty in using the programme, as well as training the managers and administrators in the management of user accounts, reports and data extraction.

3.6 MRSPTU will arrange and coordinate all staff training sessions, at a mutually agreed and convenient date(s) and venue(s) for which, Skills Anytime will provide the trainer(s) and ongoing, remote and on-site (where necessary) support for the management of the system. Travelling, Lodging and Boarding of Skills Anytime training team will be provided by the respective colleges of MRSPTU.

### 4. IMPLEMENTATION, DURATION AND RIGHTS TO TERMINATION

Skills Anytime will license Maharaja Ranjit Singh Punjab Technical University, Bhatinda to use the programme as per the duration mentioned in 3.2 & 3.3 and Maharaja Ranjit Singh Punjab Technical University Bhatinda and its affiliated , will be bound by the terms of the software agreement (licence) which will be presented for signature.





Whilst the programme is provided at subsidized cost during 2017 as per the duration mentioned in 3.2. The acceptance of the terms and conditions of licensing the Skills Anytime programme are still relevant and must be agreed before roll-out.

The implementation of the Skills Anytime system is the responsibility of Maharaja Ranjit Singh Punjab Technical University Bhatinda. Skills Anytime proposes that, for every 30 learners at least one English Coordinator is nominated to manage the learning process within Maharaja Ranjit Singh Punjab Technical University, Bhatinda. At least one system Administrator should be appointed, and at least one nominated contact (project leader) should be allocated in each College of MRSPTU as a communication point for the Skills Anytime team.

## 5. LEGAL

5.1 Skills Anytime is afforded the opportunity to refer to the collaboration with Maharaja Ranjit Singh Punjab Technical University Bhatinda in its promotional activity and materials where applicable. This may include news stories on the Skills Anytime (and parent) websites, in marketing communications (i.e. fliers, Newsletters and e-Marketing campaigns), and in publications of company brochures, PowerPoints and videos.

Likewise MRSPTU is afforded the same opportunity for promotional activities.

5.2 Both parties retain the right to withdraw from the agreement (within the 12 month period and beyond if applicable) by giving 3 months notice.

5.3 Maharaja Ranjit Singh Punjab Technical University, Bhatinda will be provided with the Skills Anytime programme for the duration of this agreement, but will remain bound to the terms of the Skills Anytime sales software licensing agreement during that time. All upgrades and updates to the Skills Anytime system (and bksbLIVE 2) platform are managed by bksb, at no additional cost to Maharaja Ranjit Singh Punjab Technical University, Bhatinda or other clients, and will be applied only after a consultation period has occurred. Any system bug fixes will occur automatically as standard.

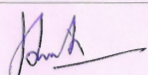
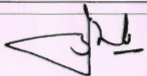
5.4 All other legal and contractual terms of use are contained within the licence agreement.

## 6. SIGNATURES

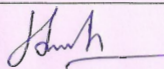

### 6.1 Terms Dates

This agreement is valid from the start date and automatically expires upon the expiry date, unless the terms are altered and then agreed by both parties.

#### 6.1.1 Start Date:

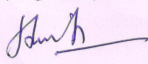
Start Date of the Agreement	Signed (Skills Anytime)	Signed (Maharaja Ranjit Singh Punjab Technical University, Bhatinda )
04 <sup>th</sup> Jan 2017		

#### 6.1.2 Expiry Date:

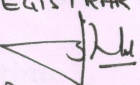
Expiry Date of the Agreement	Signed (Skills Anytime)	Signed Maharaja Ranjit Singh Punjab Technical University, Bhatinda )
03 <sup>rd</sup> Jan 2018		

**6.2. Authorized Personnel**

6.2.1 Signed by, and on behalf of Skills Anytime, Chandigarh (bksb India Private Ltd ) and on behalf of bksb UK.

NAME: GURDEEPAK SINGH  
POSITION: REGIONAL DIRECTOR  
SIGNATURE:   
DATE: 14th Dec 2016

6.2.2 Signed by, and on behalf of Maharaja Ranjit Singh Punjab Technical University, Bhatinda

NAME: Prof.(Dr.) JASSIR SINGH HUNDAL  
POSITION: REGISTRAR  
SIGNATURE:   
DATE: 14th Dec, 2016

## Memorandum of Understanding

This MoU is signed on 22<sup>nd</sup> Nov, 2017 between Maharaja Ranjit Singh Punjab Technical University, Bathinda (Punjab) and Truechip Solutions Pvt. Ltd. Noida, for providing technical Training in the field of VLSI for "**Confirmed Employment**" to the Electronics & Communication Engg. students of the University and its constituent & affiliated colleges and to enhance their skills and upgrade them to current market trends.

**Maharaja Ranjit Singh Punjab Technical University (MRSPTU)** herein called the First Party, is a Punjab State Government technical university located in Bathinda. It was established in 2015 to promote technical, management and pharmaceutical education in the state of Punjab at the degree level and above. Being an education and research university, it has a mandate to set up centres of excellence in emerging technologies for promoting training and research & development in these areas. This University has jurisdiction up to 11 districts i.e. Bathinda, Ferozepur, Moga, Faridkot, Sri Muktsar Sahib, Barnala, Mansa, Sangrur, Patiala, Fatehgarh Sahib, Fazilka.

**Truechip Solutions Pvt. Ltd. Noida**, through its education arm FutureWiz Academy Limited liabilities partnership company registered under the company act of India, having its registered office at D-25, 1<sup>st</sup> Floor, Lajpat Nagar – II, New Delhi – 11 0024, India, (hereinafter referred to as the Second Party, which expression shall, unless repugnant to the context thereof, mean and include its successors and permitted assigns) of the One Part.

Both the parties mutually agree to sign the Memorandum of Understanding.

### **The Scope of the MoU are:**

- i) The Second Party will introduce an Add on Course in "Industrial Applications of VLSI" to their undergraduate engineering students and include it in their curriculum.
- ii) The evaluation of the Add on Course shall be jointly conducted by both the parties.
- iii) The certificate of the Add on Course shall be provided by the University by mentioning it with marks scored in the regular DMC issued to the students for their B.Tech. /M.Tech. Programme and mentioning that the course is in collaboration with Truechip.
- iv) The Second Party shall engage the course by providing the resource person to teach the theory and practical parts of the course.
- v) The cost of the course shall be met from the additional fee to be charged from the students undertaking the course. The amount to be charged as Fee shall be decided by both the parties on mutual consent.



- vi) The details of the course content shall be furnished by the second party and shall be subject to change/updation and approval of the Board of Studies and other academic bodies of the university.
- vii) For confirmed placement, eligibility conditions of the participating students shall be decided by the second party and shall be binding on the students and the first party. However, the Second Party shall provide placement assistance by arranging placement drives at its campus in Noida or the university, for the students of the First Party.
- viii) The Second Party shall provide free industrial training to 3 students of the First Party as per their curriculum based upon their performance in the entrance if applicable. If more number of students opt for training at the premises of the Second Party, they shall also be provided training by paying the training fee applicable at that time.
- ix) The Second Party shall provide guidance for 5 major projects to be undertaken by the final year UG students of the First Party. The guidance can be delivered on email, Skype, phone, personal visit of student or guide etc.
- x) The Second Party shall engage a Faculty Development Programme in VLSI and related recent technologies. The FDP shall be organized in the campus of First Party, who shall be responsible for providing the infrastructure for running the FDP.
- xi) The Second Party shall assist the First Party in engaging expert lectures in VLSI and related fields for augmenting the knowledge base of its faculty, staff and students.
- xii) The Second Party shall also be responsible for engaging workshops in the field of VLSI and related areas for the students of the First Party. The cost of engaging the workshop shall be met from the fee to be charged from the students attending the workshop or grants from the university. The amount of fee is likely to be Rs400/- per student for a workshop of 14 to 16 hours.
- xiii) Both the parties shall work together for augmenting research, consultancy and faculty-industry exchange programmes in each other's campus.
- xiv) A VLSI lab will be setup in the Department in which hardware setup shall be provided by the First Party and the software requirement shall be met by the Second Party.

**GENERAL TERMS & CONDITIONS:**

- a. This MoU shall be effective from the date of affixture of signatures of the parties and will remain in force for a period of three (3) years.
- b. The term of this agreement will be one year and will be renewed on the same terms and conditions until either of the party mutually wants to amend any clause.
- c. This MoU will be reviewed by the parties from time to time and may be amended with the consent of both the parties and thereafter confirmed in writing.
- d. The parties agree and acknowledge that no other rights are granted except as explicitly stated herein.
- e. Neither party shall transfer or assign its interests, obligations or rights in this agreement without the written consent of the parties, provided that such consent will not be unreasonably withheld.



- f. Neither party shall be liable by reason of failure or delay in the performance of its obligation under this MoU.
- g. Any other arrangements or activities or commitments shall be made on mutually agreed terms from time to time.
- h. No amendments to the MoU shall be valid unless executed in writing and signed by both the parties.

**TENURE AND TERMINATION:**

This Agreement shall commence from the date of agreement and shall continue in force for three (3) years until terminated by either party, by giving 3 months' notice.

Either party may terminate this Agreement upon prior written notice to the other party, which will however be subject to compliance to completion of all commitments made. Notwithstanding any such termination, both parties shall ensure that all activities in progress are completed successfully.

Signed and delivered  
For and on behalf of  
Truechip Solutions Private Limited  
Noida (UP)



22.11.17

Ajeet Singh  
Manager-Business Development



Signed and delivered  
For and on behalf of  
Maharaja Ranjit Singh Punjab Technical University,  
Bathinda (Pb.)



22/11/2017

Dr. Jasbir S. Hundal  
Registrar, MRSPTU, Bathinda

In Presence of Witness:

1.   
22/11
2.   
22-11



**Memorandum of Understanding between TiE Chandigarh and Maharaja Ranjit Singh Punjab Technical University, Bhatinda**

The Memorandum of Understanding (MoU) is made on 10<sup>th</sup> day of month of October 2017 between TiE Chandigarh hereinafter referred to as "TiE" represented by its authorized officer, "President" JB Singh and Maharaja Ranjit Singh Punjab Technical University, Bathinda, herein after referred to as "MRSPTU".

**A. ABOUT TiE:**

TiE is a non-profit organisation devoted to the cause of entrepreneurship. Mission of TiE is to promote entrepreneurship through Mentoring, Networking, Education, and Incubation & Funding. We have 61 chapters across 18 countries and close to 12000 members. These members are Thought Leaders, Business Stalwarts & Business Icons.

**B. ABOUT MRSPTU:**

Maharaja Ranjit Singh Punjab Technical University, Bathinda has been established by the State Government of Punjab vide Punjab Act no. 5 of 2015 and is registered with UGC under section 2(f) of the UGC Act of 1956. All the colleges imparting technical education and situated within the territorial jurisdiction of Bathinda, Barnala, Faridkot, Fatehgarh Sahib, Fazilka, Ferozepur, Mansa, Moga, Sri Muktsar Sahib, Patiala and Sangrur Districts of the State of Punjab are affiliated with the university.

*Ravi Sharma*



**C. SCOPE:**

**The Scope of the MoU is:**

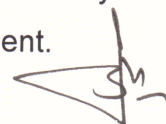
- i) That MRS PTU will give an annual sponsorship of Rs.6.00 Lakhs (Rupees Six Lakh only) to TiE, here in after referred to as the “**Sponsorship**”. Service Tax and other statutory levies as may be applicable from time to time will be extra and to MRS PTU's account.
- ii) TiE will facilitate the University in setting up an Incubation Centre at the University.
- iii) TiE will support the University in organizing Campus Placement Drive one at Chandigarh and one at MRSPTU Bathinda in terms of getting at least 10-15 TiE member companies to come as recruiters (Date to be informed one month in advance)
- iv) TiE will help in getting VC's/Investors and Pitching & Funding opportunity for MRSPTU faculty.
- v) TiE will provide support to MRSPTU for conducting Joint Projects and Innovative Tech Research Projects with support of TiE member IT Companies.
- vi) TiE will support University in organizing an Internship Drive at Chandigarh (date to be informed by MRSPTU one month in advance)
- vii) Industrial visits for the students to TiE Members Companies.
- viii) TiE Fraternity shall conduct mentoring programs, for the students for guidance & investment for businesses.
- ix) Speaking slot for the representative at relevant events.
- x) Opportunity to represent at the TiE flagship event – TIECON Chandigarh scheduled for **March 2018**.



- xi) Dedicated & exclusive events focusing on entrepreneurial awareness amongst the students at MRSPTU Campus or any colleges related to MRSPTU.
- xii) TiE team will be sharing job openings shared by member companies with the group placement officer as and when they arrive in the year.
- xiii) 2 Complimentary Charter Memberships for the top management is included in the MOU.

**D. GENERAL TERMS & CONDITIONS:**

- a. This MoU shall be effective from the date of affixture of signatures of the parties and will remain in force for a period of three(3) years.
- b. The term of this agreement will be one year and will be renewed on the same terms and conditions until either of the party mutually wants to amend any clause.
- c. This MoU will be reviewed by the partnership committee members from time to time and may be amended with the consent of both the parties and thereafter confirmed in writing.
- d. The parties agree and acknowledge that no other rights are granted except as explicitly stated herein.
- e. Neither party shall transfer or assign its interests, obligations or rights in this agreement without the written consent of the parties, provided that such consent will not be unreasonably withheld.
- f. Neither party shall be liable by reason of failure or delay in the performance of its obligation under this MoU, if such failure or delay is caused by the acts of God, Strikes, Lockouts or any other causes beyond its control and without its fault or negligence on mutual agreement.



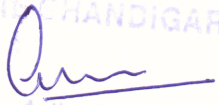
- g. Any other arrangements or activities or commitments shall be made on mutually agreed terms from time to time.
- h. No amendments to the MoU shall be valid unless executed in writing and signed by both the parties.

**E. TENURE AND TERMINATION:**

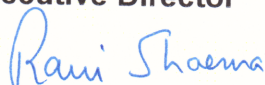
This Agreement shall commence from the date of agreement and shall continue in force for three(3) years until terminated by either party, by giving 3 months' notice.

Either party may terminate this Agreement upon prior written notice to the other party, which will however be subject to compliance to completion of all commitments made. Notwithstanding any such termination, both parties shall ensure that all activities in progress are completed successfully.

**For and on behalf of  
TiE Chandigarh**

FOR TiE CHANDIGARH  
  
Authorized Signatory

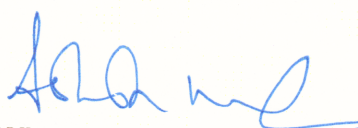
**Executive Director**

  
Ravi Sharma  
10/10/2017

**Witness:**

**For and on behalf of  
Maharaja Ranjit Singh  
Punjab Technical University, Bathinda**

  
Registrar 10/10/2017

  
Witness:

# CENTEX

## Memorandum of Understanding between

### GIANI ZAIL SINGH CAMPUS COLLEGE OF ENGINEERING & TECHNOLOGY, BHATINDA & (MRS PTO, BHATINDA) CENTEX INTERNATIONAL PRIVATE LIMITED

This Agreement is entered into by and between CENTEX INTERNATIONAL PRIVATE LIMITED & GIANI ZAIL SINGH CAMPUS COLLEGE OF ENGINEERING & TECHNOLOGY, BHATINDA

#### 1. The Objective of this Memorandum of understanding is:

- To promote interaction between GZSCET & Centex in mutual beneficial areas.
- To provide a formal basis for initiating interaction between GZSCET and Centex.

#### 2. Proposed Modes of Collaboration:

GZSCET and Centex propose to collaborate through:

- a) Sponsoring student's Internship / Projects / training program for B Tech. candidates.
- b) Sponsoring R&D projects, which may be carried out wholly at GZSCET or at premises of Centex or partly at GZSCET and partly at Centex.
- c) To explore the possibility of engaging students in technical projects for them to know industry requirement while studying.
- d) Factory visit shall be arranged for the students to have better exposure / understanding of work processes.
- e) Sponsored competitions will be arranged by the company within the College students.

#### 3. Confidentiality:

All information exchanged between both the Parties must be kept confidential and cannot be shared with anyone without prior approval.

#### 4. Non – Exclusivity:

The relationship of the parties under this MOU shall be nonexclusive and both parties, including their affiliates, subsidiaries and divisions, are free to pursue other agreements or collaborations of any kind. However, when entering into a particular research agreement, the participants may agree to limit each party's right to collaborate with others on that subject.

#### 5. Terms & Termination:

This MOU, unless extended by mutual written agreement of the parties, shall expire 3 years after the effective date specified in the opening paragraph. This MOU may be amended or terminated earlier by mutual written agreement of the parties at any time, but not before the end of the academic year for which the process of engaging students for internship has started. However, no such early termination of this MOU, whether mutual or unilateral, shall affect the obligations of the participants under any Research Agreement.

  
Centex International Pvt. Ltd.

Sua Road, Village Govindgarh, Focal Point, Phase-7, LUDHIANA-141 010.

Corporate Office : D-217, Phase-7, Focal Point, Ludhiana-141 010. (INDIA) Ph.: 91-161-3040300, 2677276

Fax: 91-161-2670094 E-mail: info@centexexports.com; Web : www.centexexports.com

Regd. Office : G 53, Sarita Vihar, New Delhi-110076 Ph./Fax : 91-11-26940260 CIN : U18109DL2010PTC206616

# CENTEX

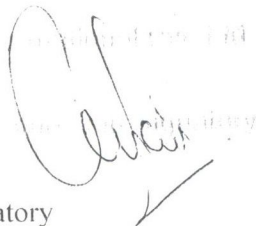
## 6. Relationship:

Nothing in this MOU shall be construed to make either party a partner, an agent or legal representative of the other for any purpose.

## 7. Assignment:

It is understood by the Parties herein this MOU is based on the professional competence and expertise of each party and hence neither Party shall transfer or assign this Agreement, or rights or obligations arising hereunder, either wholly or in part, to any third party.

CENTEX INTERNATIONAL PRIVATE LIMITED



Authorized Signatory

Seal

Date

8/6/2017

GANI ZAIL SINGH CAMPUS COLLEGE OF

ENGINEERING & TECHNOLOGY, BHATINDA

(MR. PTO, BHATINDA)

Authorized Signatory

Seal

Date

Campus Director  
Giani Zail Singh  
Campus College of Engg. & Technology,  
Bathinda (Pb.)

Centex International Pvt. Ltd.

Sua Road, Village Govindgarh, Focal Point, Phase-7, LUDHIANA-141 010.

Corporate Office : D-217, Phase-7, Focal Point, Ludhiana-141 010. (INDIA) Ph.: 91-161-3040300, 2677276

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Ph. 23236351, 23232703, 23237773, 23236316

[www.ugc.ac.in](http://www.ugc.ac.in)



BY SPEED POST

विश्वविद्यालय अनुदान आयोग

बहादुरशाह जफर मार्ग

नई दिल्ली-110 002

UNIVERSITY GRANTS COMMISSION  
BAHADURSHAH ZAFAR MARG  
NEW DELHI-110 002

F. No. 9-11/2015 (CPP-I/PU)

January, 2018

The Registrar  
Maharaja Ranjit Singh Punjab Technical University,  
Dabwali Road,  
Bathinda - 151001,  
Punjab.

3 JAN 2018

Subject: Proposal for inclusion in the list of Universities under Section 12 B of the UGC Act, 1956.

Sir,

This has reference to the visit of the UGC's inspection Committee to the University on 01-02<sup>nd</sup> July, 2017 to consider 12-B status and subsequent compliance submitted by the University in respect of the observations/suggestions given by the UGC's inspection Committee. The report of the inspection Committee along with the compliance submitted by the University was placed before Committee of UGC members for consideration. The Committee recommended as under:-


"The Committee considered the report of the UGC's inspection Committee along with the compliance submitted by the University.

The Committee decided to recommend approval of 12 B status to Maharaja Ranjit Singh Punjab Technical University (State University), Dabwali Road, Bathinda - 151001, Punjab.

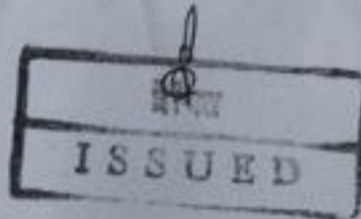
The University is advised to get NAAC accreditation at the earliest."

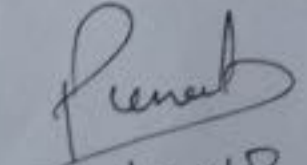
The above recommendations of the Committee along with the Report of the UGC inspection Committee were placed before the Commission in its 527<sup>th</sup> {Item No. 1.02(a)(i)} held on 22.12.2017. The Commission considered and approved the recommendations of the Committee and the University is included in the list of Universities under Section 12 B of the UGC Act, 1956.

Yours faithfully,

  
(Kundla Mahajan)  
Under Secretary

O/C




  
11/1/2018

**MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY,DABWALI ROAD, BATHINDA-151001***(ESTB BY GOVT OF PUNJAB VIDE ACT No.5 OF 2015 & UNDER SECTION 2(F) OF THE UGC ACT AT SNo 428)***DETAILS OF PHD STUDENTS ENROLLED/REGISTERED UPTO AUGUST 2017**






DRD/MRSPTU/453

Dated : 09/10/2017

**ACADEMIC YEAR 2015-16**

Sr. No.	Faculty	Discipline	Name of the Supervisor	Name of Ph.D Scholar	Mode of Ph.D (Full Time/ Part Time)	Enrolment/ Admission Number	Date of Admission (DD-MM-YYYY)	Date of Registration (DD-MM-YYYY)	Broad Research Topic	Likely Date of completion of Ph.D	Availing Fellowship Yes/No	Funding Agency of Fellowship	Photo
1	Engg & Tech	CSE	Dr. Shaveta Rani, GZSCCET, Bathinda (S107F76005)	Vidhu Kiran	Full Time	15107FFQ01	16-09-2015	06-03-2017	Trust Based Secured Routing Mechanism in Internet of Things	2019	Yes	QIP	

**ACADEMIC YEAR 2016-17**






Sr. No.	Faculty	Discipline	Name of the Supervisor	Name of Ph.D Scholar	Mode of Ph.D (Full Time/ Part Time)	Enrolment/ Admission Number	Date of Admission (DD-MM-YYYY)	Date of Registration (DD-MM-YYYY)	Broad Research Topic	Likely Date of completion of Ph.D	Availing Fellowship Yes/No	Funding Agency of Fellowship	Photo
1	Sciences	Mathematics	Dr. H.S Bhatti BBSBEC, Sri Fathegarh Sahib (S405M67004)	Angrej Kumar	Part Time	16405MPE01	18.07.2016	-	Mathematics Modelling	2019	No	-	
2	Sciences	Computer Application	Dr. Naresh Kumar Garg, GZSCCET, Bathinda (S107M72006)	Karamjot Kaur	Part Time	16404FPE01	01.07.2016	-	Digital Image Processing	2019	No	-	
3	Sciences	Computer Application	Dr. Gulshan Kumar, SBSSTC, Ferozpur (S404M76001)	Harmandeep Singh Brar	Part Time	16404MPE02	19.07.2016	-	Detection & Mitigation of Internet attacks in software defined networks	2019	No	-	
4	Commerce & Mgt	Commerce & Mgt	Dr. Veerpaul Kaur , GZSCCET, Bathinda (S303F73009)	Manpreet Kaur Dhaliwal	Part Time	16301FPE01	19.07.2016	-	Effects of stress among women employees on performance and well being in educational institutes of Talwandi Sabo & Surrounding areas	2019	No	-	
5	Engg & Tech	Electrical Engg	Dr. Lakhwinder Singh, BBSBEC, Fathegarh Sahib (S109M67002)	Balkar Singh Brar	Part Time	16109MPE01	01.08.2016	-	Power Systems	2019	No	-	

6	Engg & Tech	ECE	Dr. Naresh K. Garg, GZSCCET, Bathinda (S107M72006)	Sukhjinder Singh	Part Time	16110MPE01	18.09.2016	-	OCR	2019	No	-	
7	Sciences	Physics	Dr. Sandeep Kansal GZSCCET, Bathinda (S406M72004)	Shekhar Dwivedi	Part Time	16406MPE01	18.08.2016	-	Dosimetry of Medical Linear Accelerator equipped with Photon & Electron beam energies.	2019	No	-	
8	Commerce & Mgt	Marketing	Dr. Manoj Kumar Kulshreshtha GGSCMT, Gidderbaha (S303M71005)	Neeraj Kumar	Part Time	16301MPE02	29.08.2016	-	A Research on Retail Industry	2019	No	-	
9	Pharmacy	Pharmacy	Dr. Ravindra K Rawal I.S.F. College of Pharmacy, Moga (S202M76004)	Rohit Bhatia	Part Time	16201MPE01	31.08.2016	-	Design Synthesis and Evaluation of Coumarin Fused/Tethered Nitrogen Containing Heterocycles as Anticancer Agents	2019	No	-	
10	Pharmacy	Pharmacy	Dr. Raj K Narang I.S.F. College of Pharmacy, Moga (S202M73005)	Bharat Khurana	Part Time	16201MPE02	31.08.2016	-	Design and Development of Novel Drug Delivery Systems for Treatment of Psoriasis	2019	No	-	
11	Pharmacy	Pharmacy	Dr. Puneet Kumar , MRSPTU, Bathinda (S202M79003)	Ashish Kumari	Part Time	16201FPE03	31.08.2016	-	Risk of Diabetic Microvascular Complication in Hyper Cericemic Patients	2019	No	-	
12	Commerce & Mgt	Finance	Dr. Manoj Kumar Kulshreshtha GGSCMT, Gidderbaha (S303M71005)	Sugandha	Part Time	16311FPE03	23-01-2017	-	Critical Analysis of Financial Statement in relation to Demonetization	2020	No	-	
13	Engg & Tech	CSE	Dr. Naresh Kumar Garg, GZSCCET, Bathinda (S107M72006)	Galaxy Bansal	Part Time	16117FPE01	24-01-2017	-	Image Processing & Pattern Recognition	2020	No	-	
14	Commerce & Mgt	Management	Dr. Rajinder Kaur, MIMIT, Malout (S303F75004)	Mukta	Part Time	16311FPE04	24-01-2017	-	Banking & Finance	2020	No	-	

15	Pharmacy	Pharmacy	Dr. Ashish Baldi, GZSCCET, Bathinda, (S202M78001)	Neha Rawat	Part Time	16211FPE04	14-02-2017	-	Investigation of some strategies for the improved efficacy of anticancer agents	2020	No	-	
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SESSION 2017-18 (JULY-DEC 2017)

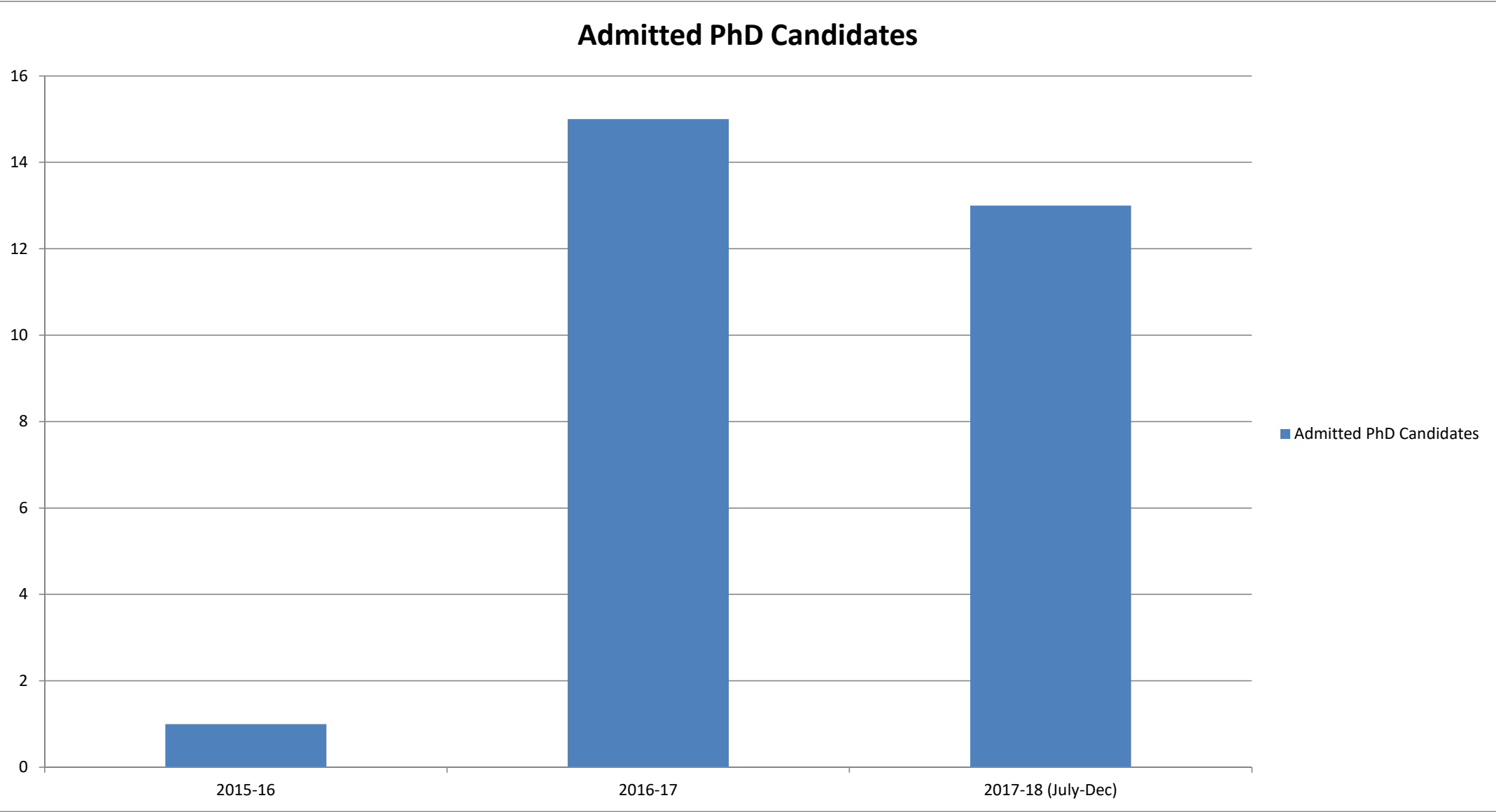
Sr. No.	Faculty	Discipline	Name of the Supervisor	Name of Ph.D Scholar	Mode of Ph.D (Full Time/ Part Time)	Enrolment/ Admission Number	Date of Admission (DD-MM-YYYY)	Date of Registration (DD-MM-YYYY)	Broad Research Topic	Likely Date of completion of Ph.D	Availing Fellowship Yes/No	Funding Agency of Fellowship	Photo
1	Engg & Tech	Civil Engg.	Dr. Sanjiv Kumar Aggarwal, GZSCCET, Bathinda (S106M70002)	Manik Goyal	Part Time	17106MPE01	27-07-2017	-	-	2020	No	-	
2	Engg & Tech	ECE	Dr. Amit Manocha PIT Moga/MRSPTU, (S109M83007)	Anuj Goel	Part Time	1710AMPE01	27-07-2017	-	-	2020	No	-	
3	Engg & Tech	ECE	Dr. Shweta Rani, GZSCCET, Bathinda (S110F80005)	Nisha Raheja	Part Time	1710AFPE02	28-07-2017	-	-	2020	No	-	
4	Engg & Tech	CSE	Dr. RK Bansal, GZSCCET, Bathinda (S107M65009)	Navkiran Kaur	Part Time	17107FPE01	08-08-2017	-	-	2020	No	-	
5	Sciences	Computer Application	Dr. Munish Kumar, GZSCCET, Bathinda (S404M84002)	Harmandeep Kaur	Part Time	17404FPE01	24-07-2017	-	-	2020	No	-	
6	Sciences	Computer Application	Dr. Gulshan Kumar, SBSSTC, Ferozpur (S404M76001)	Geeta Kocher	Part Time	17404FPE02	27-07-2017	-	-	2020	No	-	
7	Sciences	Mathematics	Dr. Amarinder Singh, BBSBEC, Sri Fatehgarh Sahib (S405M77003)	Bikramjit Singh	Part Time	17405MPE01	25-07-2017	-	-	2020	No	-	
8	Sciences	Mathematics	Dr. Ajay Kumar Mittal, AGI, Barnala (S405M78006)	Satinder Pal Kaur	Part Time	17405FPE02	02-08-2017	-	-	2020	No	-	

9	Pharmacy	Pharmacy	Dr. Rahul Deshmukh, ISF College, Moga (S202M78002 )	Darshpreet Kaur	Part Time	17201FPE01	18-08-2017	-	-	2020	No	-	
10	Pharmacy	Pharmacy	Dr. Neeraj Mishra, ISF College, Moga (S202M77008 )	Amandeep Singh	Part Time	17201MPE02	21-08-2017	-	-	2020	No	-	
11	Pharmacy	Pharmacy	Dr. Ravindra K Rawal ISF College, Moga (S202M76004)	Shelly Pathania	Part Time	17201FPE03	21-08-2017	-	-	2020	No	-	
12	Pharmacy	Pharmacy	Dr. Raj K Narang ISF College, Moga (S202M73005)	Ankita Dadwal	Part Time	17201FPE04	21-08-2017	-	-	2020	No	-	
13	Pharmacy	Pharmacy	Dr. Ashish Baldi, GZSCCET, Bathinda, (S202M78001)	Preet Amol Singh	Part Time	17201MPE05	18-08-2017	-	-	2020	No	-	

*\*Discrepancies noticed, if any, be intimated to the office of Dean(R&D) for immediate rectification in records*

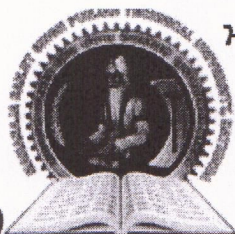
sd/-  
Dean (R&D)  
(Dr. Savina Bansal)

Cc: PA to VC for kind information to Hon’ble VC  
Director IT enable services for uploading on University web-site  
UGC through Mail in response to D.O. No.F.1-2/2009(EC/PS)(Vol.II) dated 28th April, 2017.  
Master file



ਪ੍ਰੋ. (ਡਾ.) ਸਵੀਨਾ ਬਾਂਸਲ  
ਡੀਨ (ਖੋਜ ਅਤੇ ਵਿਕਾਸ)

Prof. (Dr) SAVINA BANSAL  
PhD (Engg) FIE, FIETE, SMCSI  
DEAN (Research & Development)



ਮਹਾਰਾਜਾ ਰਣਜੀਤ ਸਿੰਘ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ  
(ਯੂ.ਜੀ.ਸੀ. ਵਲੋਂ ਮਾਨਤਾ ਪ੍ਰਾਪਤ)  
Maharaja Ranjit Singh Punjab Technical University  
(Act 5(2015) of Pb & 2(f) of UGC)  
ਡੱਬਵਾਲੀ ਰੋਡ, ਬਠਿੰਡਾ (ਪੰਜਾਬ) -151 001  
Dabwali Road, Bathinda (Punjab) -151 001

Ref No: DRD/MRSPTU/\_\_\_\_\_ ਪੱਤਰ ਨੰ: ਡ.ਖ.ਵ/ਮਰਸਪਟਯੂ-4 Dated: \_\_\_\_\_: ਮਿਤੀ

Subject : Mintues of DDRC Meetings of Deptt. of Chemistry held on 17-07-2017

The DDRC Meeting of Deptt. of Computer Applications, GZSCCET, Bathinda was held on 17-07-2017 at MRSPTU, Bathinda. Following three candidates presented themselves before the committee for MRSPTU, PhD Admission July-2017 and presented their research proposal.

1. Geeta Kochar
2. Harmandeep Kaur
3. Sarbjeet Singh

The committee recommends the provisional admission of candidates at S No 1 & 2 subjected to fulfilment/submission of following documents, as applicable, within two weeks.

- a) Supervisor Consent Form
- b) NOC From Employer for pursuing Regular Course Work
- c) Migration Certificate in original

After successful submission of these documents and admission fee deposition, pre-PhD course work is recommended as follows-

Name of Candidate	Course Allocated with Sub-Code	L-T-P-C	Supervisor Allocated
Harmandeep Kaur	Research Methodology (MREM0-101) Soft Computing Design and Analysis of Algorithms Research Lab Seminar	4-0-0-4 4-0-0-4 4-0-0-4 0-0-4-2 0-0-2-1	As per the consent to be submitted
Geeta Kochar	Research Methodology (MREM0-101) Design and Analysis of SAlgoriythms Research Lab Seminar	4-0-0-4 4-0-0-4 0-0-4-2 0-0-2-1	-do-
Sarbjeet Singh	Candidate not found suitable for research at present		

Further, it was proposed that before the PhD registration, 6-monthly performance report of PhD candidates (during course work and research proposal preparation) enrolled with a Deptt may be presented before the faculty of the concerned Deptt in the presence of Supervisor and certificate of satisfactory progress be submitted to o/o Dean (R&D) for records. The meeting ended with vote of thanks to the Chairman.

Sushodh Kumar  
17-7-17

(Chairperson) (Dean Faculty of Sciences)

Ru Bansal

Member 17/7/17

(Dr. R. K. Bansal)

Member

Member

(Dr. Savina Bansal)

Member

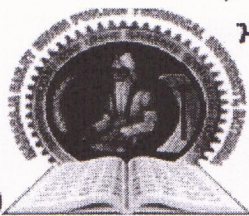
(Dr. Aniloj S.) (Dr. Manish kr.)

for perusal & approval pl.

Sanjay  
Member

HOD/BOS chairman (C.A)

Vice-chancellor



No: DRD/MRSPTU/ ਪੱਤਰ ਨੰ: ਡ.ਖ.ਵ/ਮਰਸਪਟਯ

Dated: ਮਿਤੀ

**Sub: Minutes of DDRC Meeting of Faculty of Pharmacy held on 03-08-2017**

The DDRC meeting of Faculty of Pharmacy, GZSCCET, Bathinda was held on 03-08-2017 at MRSPTU, Bathinda. Following candidates presented themselves before the committee for MRSPTU, Ph.D. admission July-Dec. 2017 in the discipline of Pharmaceutical Sciences under the faculty of Pharmacy.

The committee recommended the provisional admission of the candidate subjected to fulfillment/submission of following documents, as applicable, within two weeks.

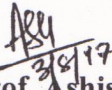
- Preet Amol Singh      • Ankita Dadwal      • Amandeep Singh      • Gaurav Khurana
- Darshpreet Kaur      • Shelly Pathania


- a) Supervisor Consent Form
- b) NOC From Employer for pursuing Regular Course Work.
- c) Migration Certificate.


After successful submission of these documents and admission fee deposition, pre-Ph.D. course work and supervisor are recommended as follow:


Name of Candidate	Course Allocated with Sub-Code	L-T-P-C	Supervisor Allocated
Preet Amol Singh	Research Methodology (MREM0-101)	4-0-0-4	Dr. Ashish Baldi
Ankita Dadwal	Elements of Pharmaceutical Research (PPHD0-101)	3-1-0-4	Dr. R. K. Narang
Shelly Pathania	Journal Club and Report Writing (PPHD 0-102)	0-2-0-2	Dr. R. K. Rawal
Amandeep Singh	Seminar (PPHD 0-103)	0-0-2-1	Dr. Neeraj Mishra
Gaurav Khurana			Dr. R. K. Narang
Darshpreet Kaur			Dr. Rahul Deshmukh

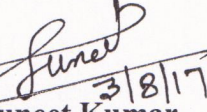
Further, it was proposed that before the Ph.D. registration 6-monthly performance report of Ph.D. candidates (during course work and research proposal preparation) enrolled with a Dept. may be presented before the faculty of concerned Dept. in the presence of Supervisor and certificate of satisfactory progress be submitted to O/o Dean (R&D) for records.

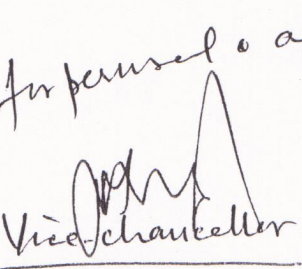
  
Prof. Ashish Baldi  
(Chairman DDRC & Convener)

  
Prof. Gursharan Singh  
(Nominee of VC)

  
Prof. R.K. Bansal  
(Nominee of Dean R&D)

  
(Supervisor/s)

  
Dr. Puneet Kumar  
(Dept. Ph.D. Faculty)

  
Vice-Chancellor

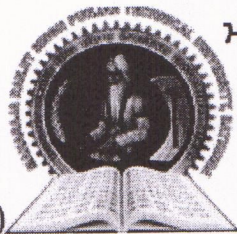
ਪ੍ਰੋ. (ਡਾ.) ਸਵੀਨਾ ਬਾਂਸਲ

ਡੀਨ (ਖੋਜ ਅਤੇ ਵਿਕਾਸ)

Prof. (Dr) SAVINA BANSAL

PhD (Engg) FIE, FIETE, SMCSI

DEAN (Research & Development)



ਮਹਾਰਾਜਾ ਰਣਜੀਤ ਸਿੰਘ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ

(ਯੂ.ਜੀ.ਸੀ. ਵਲੋਂ ਮਾਨਤਾ ਪ੍ਰਾਪਤ)

Maharaja Ranjit Singh Punjab Technical University

(Act 5(2015) of Pb & 2(I) of UGC)

ਡੱਬਵਾਲੀ ਰੋਡ, ਬਠਿੰਡਾ (ਪੰਜਾਬ) -151 001

Dabwali Road, Bathinda (Punjab) -151 001

Ref No: DRD/MRSPTU/ \_\_\_\_\_ ਪੱਤਰ ਨੰ: ਡ.ਖ.ਵ/ਮਰਸਪਟਯ

Dated: \_\_\_\_\_ ਮਿਤੀ

**Subject : Minutes of DDRC Meeting of Deptt. Mathematics held on 17-07-2017**

The DDRC Meeting of Deptt. of Mathematics, GZSCCET, Bathinda was held on 17-07-2017 at MRSPTU, Bathinda. Following candidates presented their Research proposals before the committee for PhD Admission July-2017 under MRSPTU.

1. Satinder Pal Kaur, D/o Sh Jaspal Singh
2. Bikramjit Singh, S/O Sh Charanjit Singh

The committee recommends the provisional admission of these two candidates subjected to fulfillment/submission of following documents, as applicable, within two weeks.

- d) Supervisor Consent Form
- e) NOC From Employer for pursuing Regular Course Work
- f) Migration Certificate in original

After successful submission of these documents and admission fee deposition, pre-PhD course work and supervisor are recommended as follows-

Name of Candidate	Course Allocated with Sub-Code	L-T-P-C	Supervisor Allocated
Satinder Pal Kaur	1. Research Methodology (MREM0-101) 2. Advanced Numerical Analysis (PMAT1-102) 3. Computer Lab (PMAT1-103) 4. Seminar (PMAT1-104)	4-0-0-4 4-0-0-4 0-0-4-2 0-0-2-1	Dr Ajay Mittal, Associate Professor, Aryabhatta Group of Institutes, Barnala
Bikramjit Singh	1. Research Methodology (MREM0-101) 2. Advanced Numerical Analysis (PMAT1-102) 3. Advanced Operations Research 4. Computer Lab (PMAT1-103) 5. Seminar (PMAT1-104)	4-0-0-4 4-0-0-4 4-0-0-4 0-0-4-2 0-0-2-1	Dr Amarinder Singh, Asstt Prof, BBSBEC, Sri Fatehgarh Sahib

Further, it was proposed that before the PhD registration, 6-monthly performance report of PhD candidates (during course work and research proposal preparation) enrolled with a Deptt may be presented before the faculty of the concerned Deptt in the presence of Supervisor and certificate of satisfactory progress be submitted to o/o Dean (R&D) for records.

The meeting ended with vote of thanks to the Chairman

Sukhroth Kumar  
17-7-2017

(Chairperson)

Member

(Dr. Amarinder S.)

SK Kumar

Member

Dr Bansal

Member

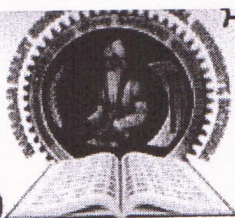
17/07/17 (Dr. S. Kumar)

Member

(Dr. Ajay K. Mittal)

Member

for perusal & approval pl.



Ref No: DRD/MRSPTU/ \_\_\_\_\_ ਪੱਤਰ ਨੰ: ਡ.ਖ.ਵ/ਮਰਸਪਟਯ

Dated: \_\_\_\_\_: ਮਿਤੀ

**Subject : Minutes of DDRC Meetings of Deptt. of ECE held on 20-07-2017**

The DDRC Meeting of Deptt. of ECE, GZSCCET, Bathinda was held on 20-07-2017 at MRSPTU, Bathinda. Following candidates presented themselves before the committee for MRSPTU, PhD Admission July-2017.

1. Nisha Raheja
2. Anuj Goel

The committee recommends the provisional admission of candidate subjected to fulfilment/submission of following documents, as applicable, within two weeks.

- a) Supervisor Consent Form
- b) NOC From Employer for pursuing Regular Course Work
- c) Migration Certificate in original

After successful submission of these documents and admission fee deposition,, pre-PhD course work and supervisor are recommended as follows-

Name of Candidate	Course Allocated with Sub-Code	L-T-P-C	Supervisor Allocated
1. Nisha Raheja	1. Research Methodology (MREM0-101)	4-0-0-4	Dr Sharmeta, AP(ECE),
	2. Soft Computing	4-0-0-4	GZSCCET
2. Anuj Goel	3. Research Lab	0-0-4-2	Dr Amit Manocha,
	4. Seminar	0-0-2-1	AP, GZSCCET

- Further, it is recommended that the candidate should have passed the PhD entrance Test/qualifying examination (for test exemption) in the concerned Discipline only for enrollment under that particular Department.
- Further, it was proposed that before the PhD registration, 6-monthly performance report of PhD candidates (during course work and research proposal preparation) enrolled with a Deptt may be presented before the faculty of concerned Deptt in the presence of Supervisor and certificate of satisfactory progress be submitted to o/o Dean (R&D) for records.

The meeting ended with vote of thanks to the Chairman

*Chairman*  
(Chairperson)

*Member*

*Member* (on leave)

*Dr. Shweta Ravi*  
(A.P., ECE Deptt.)

*Member*

*Member*

for perusal & approval pl.  
*Vice-Chancellor*

ਪ੍ਰੋ. (ਡਾ.) ਸਵੀਨਾ ਬਾਂਸਲ

ਡੀਨ (ਖੋਜ ਅਤੇ ਵਿਕਾਸ)

Prof. (Dr) SAVINA BANSAL

PhD (Engg) FIE, FIETE, SMCSI

DEAN (Research & Development)



ਮਹਾਰਾਜਾ ਰਣਜੀਤ ਸਿੰਘ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ

(ਯੂ.ਜੀ.ਸੀ. ਵਲੋਂ ਮਾਨਤਾ ਪ੍ਰਾਪਤ)

Maharaja Ranjit Singh Punjab Technical University

(Act 5(2015) of Pb & 2(f) of UGC)

ਡੱਬਵਾਲੀ ਰੋਡ, ਬਠਿੰਡਾ (ਪੰਜਾਬ) -151 001

Dabwali Road, Bathinda (Punjab) -151 001

Ref No: DRD/MRSPTU/\_\_\_\_\_ ਪੱਤਰ ਨੰ: ਡ.ਖ.ਵ/ਮਰਸਪਟਯ

Dated: \_\_\_\_\_:ਮਿਤੀ

**Subject : Minutes of DDRC Meeting of Deptt. of Chemistry held on 17-07-2017**

The DDRC Meeting of Deptt. of Chemistry, GZSCCET, Bathinda was held on 17-07-2017 at MRSPTU, Bathinda. Following candidate presented himself and presented his Research proposal before the committee for MRSPTU, PhD Admission July-2017 in the Faculty of Sciences in the Discipline Chemistry.

1. Sumit, s/o Sh Tek Chand Sharma

The committee recommends the provisional admission of candidate subjected to fulfillment/submission of following documents, as applicable, within two weeks.

- Supervisor Consent Form
- NOC From Employer for pursuing Regular Course Work/ Undertaking of non-employment
- Migration Certificate

After successful submission of these documents and admission fee deposition, pre-PhD course work and supervisor are recommended as follows-

Name of Candidate	Course Allocated with Sub-Code	L-T-P-C	Supervisor Allocated
Sumit, s/o Sh Tek Chand Sharma	1. Research Methodology (MREM0-101) 2. Principals and Practices of Management (MBAD0-91) 3. Spectroscopy-II 4. Laboratory Practices 5. Seminar	4-0-0-4 4-0-0-4 4-0-0-4 0-0-4-2 0-0-2-1	Dr Seema Sharma, Associate Professor, GZSCCET, Bathinda

Further, it was proposed that before the PhD registration, 6-monthly performance report of PhD candidates (during course work and research proposal preparation) enrolled with a Deptt may be presented before the faculty of concerned Deptt in the presence of Supervisor and certificate of satisfactory progress be submitted to o/o Dean (R&D) for records.

The meeting ended with vote of thanks to the Chairman

Sukrooh Kumar  
17-7-17  
(Chairperson)

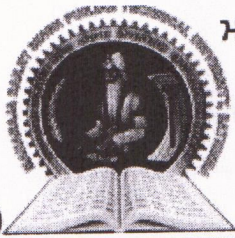
Member  
17/7/17

Member

Member  
17/7/17

Member  
17/7/17

Member



(Dr) SAVINA BANSAL  
D (Engg) FIE, FIETE, SMCSI  
DEAN (Research & Development)

Ref No: DRD/MRSPTU/\_\_\_\_\_ ਪੱਤਰ ਨੰ: ਡ.ਖ.ਵ/ਮਰਸਪਟਯ

Dated: \_\_\_\_\_: ਮਿਤੀ

**Subject : Mintues of DDRC Meetings of Deptt. of Civil Engg held on 20-07-2017**

The DDRC Meeting of Deptt. of Civil Engg, GZSCCET, Bathinda was held on 20-07-2017 at MRSPTU, Bathinda. Following candidate presented himself before the committee and interacted for PhD Admission July-2017.

1. Manik Goyal

The committee recommended the provisional admission of candidate subjected to fulfilment/submission of following documents, as applicable, within two weeks.

- Supervisor Consent Form
- NOC From Employer for pursuing Regular Course Work
- Migration Certificate

After successful submission of these documents and admission fee deposition, pre-PhD course work and supervisor are recommended as follows-

Name of Candidate	Course Allocated with Sub-Code	L-T-P-C	Supervisor Allocated
Manik Goyal	1. Research Methodology (MREM0-101) 2. Concrete construction technology (MCIE6-103) 3. Non-destructive testing lab (MCIE5-104) 5. Seminar *	4-0-0-4 4-0-0-4 0-0-4-2 0-0-2-1	Dr Sanjiv Aggarwal, Professor, GZSCCET, Bathinda

- As per the syllabus approved by DDRC

Further, it was proposed that before the PhD registration, 6-monthly performance report of PhD candidates (during course work and research proposal preparation) enrolled with a Deptt may be presented before the faculty of concerned Deptt in the presence of Supervisor and certificate of satisfactory progress be submitted to o/o Dean (R&D) for records.

The meeting ended with vote of thanks to the Chairman

*Chairperson*  
(Chairperson)

*Member*  
Member

*Dr Bansal*  
20/7/17

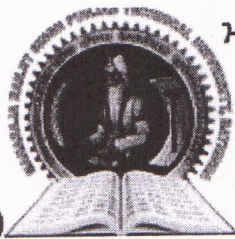
*Member*  
Member

(HOD/convenor)

*Member*  
Member

*Member*  
Member

*Member*  
Member



Ref No: DRD/MRSPTU/ \_\_\_\_\_ ਪੱਤਰ ਨੰ: ਡ.ਖ.ਵ/ਮਰਸਪਟਯ

Dated: \_\_\_\_\_: ਮਿਤੀ

**Subject : Mintues of DDRC Meetings of Deptt. of Textile Engg held on 20-07-2017**

The DDRC Meeting of Deptt. of Textile Engg, GZSCCET, Bathinda was held on 20-07-2017 at MRSPTU, Bathinda. Following candidate presented himself before the committee for interaction for PhD Admission July-2017.

1. Saurabh Garg, s/o Mohinder pal Garg

The committee recommended the provisional admission of candidate subjected to fulfilment/submission of following documents, as applicable, within two weeks.

- Supervisor Consent Form
- NOC From Employer for pursuing Regular Course Work
- Migration Certificate

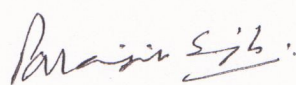
After successful submission of these documents and admission fee deposition, pre-PhD course work and supervisor are recommended as follows-

Name of Candidate	Course Allocated with Sub-Code	L-T-P-C	Supervisor Allocated
Saurabh Garg	1. Research Methodology (MREM0-101) 2. Coloration and Finishing technology MTTE-305 3. Quality management (MTTE-504) 4. Seminar*	4-0-0-4 4-0-0-4 4-0-0-4 0-0-2-1	Dr Rajeev Varshney, Professor, GZSCCET, Bathinda

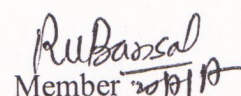
- As per the syllabus approved by DDRC

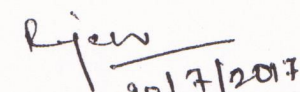
Further, it was proposed that before the PhD registration, 6-monthly performance report of PhD candidates (during course work and research proposal preparation) enrolled with a Deptt may be presented before the faculty of concerned Deptt in the presence of Supervisor and certificate of satisfactory progress be submitted to o/o Dean (R&D) for records.

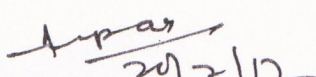
The meeting ended with vote of thanks to the Chairman

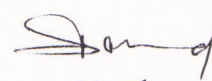
  
(Chairperson)

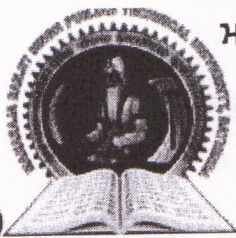
  
Member

  
Member

  
Member 20/7/2017

  
Member 20/7/17

  
Member



RefNo: DRD/MRSPTU/\_\_\_\_\_ ਪੱਤਰ ਨੰ: ਡ.ਖ.ਵ/ਮਰਸਪਟਯ

Dated: \_\_\_\_\_ ਮਿਤੀ

**Subject : Mintues of DDRC Meetings of Deptt. of Electrical Engg held on 20-07-2017**

The DDRC Meeting of Deptt. of Electrical Engg, GZSCCET, Bathinda was held on 20-07-2017 at MRSPTU, Bathinda. Following candidates presented themselves before the committee for MRSPTU, PhD Admission July-2017 in the Discipline Electrical engg under the faculty Engg & Technology.

1. Isha Arora
2. Vikram Singh

The committee recommended the provisional admission of candidate subjected to fulfilment/submission of following documents, as applicable, within two weeks.

- a) Supervisor Consent Form
- b) NOC From Employer for pursuing Regular Course Work
- c) Migration Certificate

After successful submission of these documents and admission fee deposition, pre-PhD course work and supervisor are recommended as follows-

Name of Candidate	Course Allocated with Sub-Code	L-T-P-C	Supervisor Allocated
Isha Arora	1. Research Methodology (MREM0-101)	4-0-0-4	Dr Amit Kr Manocha, AP, GZSCCET
Vikram Singh	2. Power System Operation & Control (MELE3-101)	4-0-0-4	Dr Ved Parkash, AP, GZSCCET
	3. R. Lab	0-0-4-2	
	4. Seminar	0-0-2-1	

- Further, it is recommended that the candidate should have passed the PhD entrance examination/qualifying examination in the concerned Discipline only for enrollment under that particular Department.
- Further, it was proposed that before the PhD registration, 6-monthly performance report of PhD candidates (during course work and research proposal preparation) enrolled with a Deptt may be presented before the faculty of concerned Deptt in the presence of Supervisor and certificate of satisfactory progress be submitted to o/o Dean (R&D) for records.

The meeting ended with vote of thanks to the Chairman

*Parvinder Singh*  
(Chairperson)

*Member*  
20/7/17

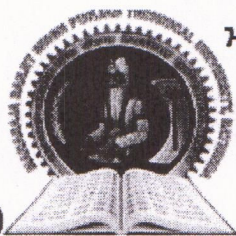
*Member*

*Member*  
20/7/17

*Dr Bansal*  
Member

*Member*

(ਡਾ.) ਸਵੀਨਾ ਬਾਂਸਲ  
ਨ (ਖੋਜ ਅਤੇ ਵਿਕਾਸ)  
Prof. (Dr) SAVINA BANSAL  
PhD (Engg) FIE, FIETE, SMCSI  
DEAN (Research & Development)



ਮਹਾਰਾਜਾ ਰਣਜੀਤ ਸਿੰਘ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ  
(ਯੂ.ਜੀ.ਸੀ. ਵੱਲੋਂ ਮਾਨਤਾ ਪ੍ਰਾਪਤ)  
Maharaja Ranjit Singh Punjab Technical University  
(Act 5(2015) of Pb & 2(1) of UGC)  
ਡੱਬਵਾਲੀ ਰੋਡ, ਬਠਿੰਡਾ (ਪੰਜਾਬ) -151 001  
Dabwali Road, Bathinda (Punjab) -151 001

RefNo: DRD/MRSPTU/\_\_\_\_\_ ਪੱਤਰ ਨੰ: ਡ.ਖ.ਵ/ਮਰਸਪਟਯ

Dated: \_\_\_\_\_ ਮਿਤੀ

**Subject : Mintues of DDRC Meetings of Deptt. of CSE Engg held on 20-07-2017**

The DDRC Meeting of Deptt. of CSE, GZSCCET, Bathinda was held on 20-07-2017 at MRSPTU, Bathinda. Following candidates presented themselves before the committee for MRSPTU, PhD Admission July-2017.

1. Sandeep Kaur Gill
2. Navkiran Kaur

The committee recommended the provisional admission of candidate subjected to fulfilment/submission of following documents, as applicable, within two weeks.

- a) Supervisor Consent Form
- b) NOC From Employer for pursuing Regular Course Work
- c) Migration Certificate

After successful submission of these documents and admission fee deposition, pre-PhD course work and supervisor are recommended as follows-

Name of Candidate	Course Allocated with Sub-Code	L-T-P-C	Supervisor Allocated
1. Sandeep Kaur Gill	1. Research Methodology (MREM0-101)	4-0-0-4	Dr RK Bansal, Professor, GZSCCET, Bathinda
2. Navkiran Kaur	2. Soft Computing (MCSE1-103)	3-1-0-4	
	3. Practical Lab-1	0-0-4-2	
	4.. Seminar	0-0-2-1	

However, the co-supervisor could be from an allied field/faculty.

Further, it was proposed that before the PhD registration, 6-monthly performance report of PhD candidates (during course work and research proposal preparation) enrolled with a Deptt may be presented before the faculty of concerned Deptt in the presence of Supervisor and certificate of satisfactory progress be submitted to o/o Dean (R&D) for records.

The meeting ended with vote of thanks to the Chairman

*Paramjit Singh*  
(Chairperson)  
Dr. Paramjit Singh  
Dean FO&T

*Gunsham Singh*  
Member  
22/7/17

*Ru Bansal*  
Member  
20/7/17  
Dr R K Bansal  
Deansw

*[Signature]*  
Member

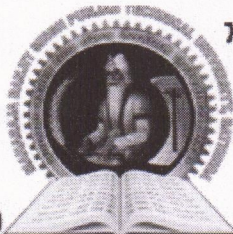
*[Signature]*  
Member  
20/7/17

*[Signature]*  
Member

for your personal & approval pl.  
Nice - Chancellor

ਪ੍ਰੋ. (ਡਾ.) ਸਵੀਨਾ ਬਾਂਸਲ  
ਡੀਨ (ਖੋਜ ਅਤੇ ਵਿਕਾਸ)

Prof. (Dr) SAVINA BANSAL  
PhD (Engg) FIE, FIETE, SMCSI  
DEAN (Research & Development)



ਮਹਾਰਾਜਾ ਰਣਜੀਤ ਸਿੰਘ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ  
(ਯੂ.ਜੀ.ਸੀ. ਵੱਲੋਂ ਮਾਨਤਾ ਪ੍ਰਾਪਤ)  
Maharaja Ranjit Singh Punjab Technical University  
(Act 5(2015) of Pb & 2(f) of UGC)  
ਡੱਬਵਾਲੀ ਰੋਡ, ਬਠਿੰਡਾ (ਪੰਜਾਬ) -151 001  
Dabwali Road, Bathinda (Punjab) -151 001

RefNo: DRD/MRSPTU/ \_\_\_\_\_ ਪੱਤਰ ਨੰ: ਡ.ਖ.ਵ/ਮਰਸਪਟਯ

Dated: \_\_\_\_\_ ਮਿਤੀ

**Subject : Mintues of DDRC Meeting of Deptt. of Computer Applications held on 15-01-2018**

The DDRC Meeting of Deptt. of Computer Applications, GZSCCET, Bathinda was held on 15-01-2018 at MRSPTU, Bathinda. Following candidates presented themselves before the committee for PhD Admission Jan-2018.

1. Jaspreet Kaur Sandhu
2. Shaveta Dargan
3. Alka Walia
4. Sukhjinder Singh

The committee unanimously recommends provisional admission of candidates at S No 1, 2, and 3 only subjected to fulfillment/submission of following documents, as applicable, within two weeks.

- a) Consent Form from Supervisor of concerned Faculty/Discipline through proper channel
- b) NOC From Employer for pursuing Regular Course Work
- c) Migration Certificate in original *from the last enrolled Univ.*
- d) Research proposal (1-2 pages)

After successful submission of these documents and admission fee deposition, pre-PhD course work and supervisor are recommended as follows-

Name of Candidate	Course Allocated with Sub-Code	L-T-P-C	Supervisor to be allocated
1. Jaspreet Kaur Sandhu	Research Methodology (MREM0-101)	4-0-0-4	Dr Amitoj Singh
2. Shaveta Dargan	Soft Computing (MCAP1-673)	3-1-0-4	Dr Munish Kr
3. Alka Walia	Software Lab XV (MCAP1-678)	0-0-4-2	**
	Seminar*	0-0-2-1	

• \* Syllabus as proposed by DDRC enclosed for further approvals from BoS/Academic Council

• \*\* as per the supervisor consent from the concerned faculty

The meeting ended with vote of thanks to the Chairman

(Chairperson)

Member

(Dr S. Bansal) Dean R.D

Member

Dr R. K. Bansal

Member

(Dr Amitoj Singh)

(Dr. Sanjay Bhatnagar)  
Head Comp App.

Member

(Dr. Munish K Jindal)

Member

Dr. Naresh Garg  
Head CSE

\* approval attached

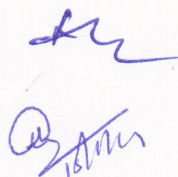
**Department of Computer Applications**  
**PCA-001**


L-T-P-C  
0-0-2-1

MM:SATISFACTORY/UNSATISFACTORY

**Seminar**

The PhD candidate enrolled with the Deptt of Computer applications shall choose Research topic pertaining to her/his research area and shall deliver three presentations in which other faculty members and research scholars shall also be present



  
(Dr Sanjay Bhatnagar)



dean r & d <deanrnd.mrsstu@gmail.com>

(no subject)

Geeta Hundal <geetahundal@yahoo.com>

Sat, Jan 13, 2018 at 1:52 PM

Reply-To: "geetahundal@yahoo.com" <geetahundal@yahoo.com>

To: Dean R&D <drd@mrsstu.ac.in>

Dear Dr Bansal

I am very sorry to inform you that I have got a relapse of fever and I will not be able to come for the meeting on 15th. However I have talked to Dr Isher who has very kindly consented to chair that meeting himself and saved me the embarrassment.

I am deeply concerned about the inconvenience caused to you and him but then things are not in my control.

Regards .

Geeta Hundal

Sent from Yahoo Mail on Android

for needful directions pl.  
to chair faculty of Sc. DDRC. *AK*

Hon'ble Vice-Chancellor *AK*



with absence of dear faculty,  
Dean (R&D) is supposed  
to chair the meeting. *AK*

Dear (R&D)

DAA on D. leave (enclosed) on 15<sup>th</sup> 18. *AK*

Hon'ble VC. *AK*

Dear (R&D) can sign *AK*

4. (ਡਾ.) ਸਵੀਨਾ ਬਾਂਸਲ

ਡੀਨ (ਖੋਜ ਅਤੇ ਵਿਕਾਸ)

Prof. (Dr) SAVINA BANSAL

PhD (Engg) FIE, FIETE, SMCSI

DEAN (Research & Development)



ਮਹਾਰਾਜਾ ਰਣਜੀਤ ਸਿੰਘ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ

(ਯੂ.ਜੀ.ਸੀ. ਵੱਲੋਂ ਮਾਨਤਾ ਪ੍ਰਾਪਤ)

Maharaja Ranjit Singh Punjab Technical University

(Act 5(2015) of Pb & 2(f) of UGC)

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RefNo: DRD/MRSPTU/\_\_\_\_\_ ਪੱਤਰ ਨੰ: ਡ.ਖ.ਵ/ਮਰਸਪਟਯ

Dated:\_\_\_\_\_ਮਿਤੀ

**Subject : Mintues of DDRC Meetings of Deptt. of CSE Engg held on 12-01-2018**

The DDRC Meeting of Deptt. of CSE, GZSCCET, Bathinda was held on 12-01-2018 at MRSPTU, Bathinda. Following candidates presented themselves before the committee for MRSPTU, PhD Admission Jan-2018.

1. Ramil Gupta
2. Jabarweer Singh

The committee recommends provisional admission of candidate at S No 1 subjected to fulfilment/submission of following documents, as applicable, within two weeks. The candidate at S No 2 requested to defer the admission as he will seek it in next session.

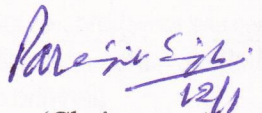
- a) Supervisor Consent Form
- b) NOC From Employer for pursuing Regular Course Work
- c) Migration Certificate

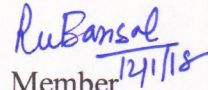
After successful submission of these documents and admission fee deposition, pre-PhD course work and supervisor are recommended as follows-

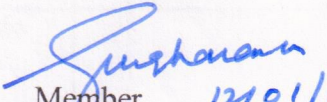
Name of Candidate	Course Allocated with Sub-Code	L-T-P-C	Supervisor Allocated
1. Ramil Gupta	1. Research Methodology (MREM0-101) 2. Soft Computing 3. Research lab 4. Seminar	4-0-0-4 4-0-0-4 0-0-4-2 0-0-2-1	Dr Naresh Garg

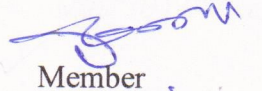
Further, it was decided that request for co-supervision of already enrolled PhD candidates shall be taken up at the time of their Research proposal presentations.


The meeting ended with vote of thanks to the Chairman

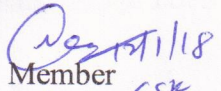
  
12/1  
(Chairperson)  
(Dr Paramjit Singh)  
Dean Faculty of Engg

  
12/1/18  
Member  
(Dr R. K. Bansal)

  
12/01/18  
Member  
(Dr Gursharan Singh)

  
Member  
(Dr Paramjit Singh)

  
Member  
(Dr Shaveta Rami)

  
12/01/18  
Member  
HOD CSE  
(Dr Naresh Garg)

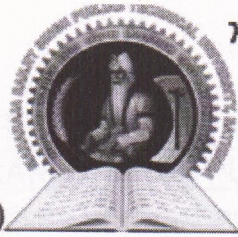
ਪ੍ਰੋ. (ਡਾ.) ਸਵੀਨਾ ਬਾਂਸਲ

ਡੀਨ (ਖੋਜ ਅਤੇ ਵਿਕਾਸ)

Prof. (Dr) SAVINA BANSAL

PhD (Engg) FIE, FIETE, SMCSI

DEAN (Research & Development)



ਮਹਾਰਾਜਾ ਰਣਜੀਤ ਸਿੰਘ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ

(ਯੂ.ਜੀ.ਸੀ. ਵੱਲੋਂ ਮਾਨਤਾ ਪ੍ਰਾਪਤ)

Maharaja Ranjit Singh Punjab Technical University

(Act 5(2015) of Pb & 2(f) of UGC)

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RefNo: DRD/MRSPTU/\_\_\_\_\_ ਪੱਤਰ ਨੰ: ਡ.ਖ.ਵ/ਮਰਸਪਟਯ

Dated:\_\_\_\_\_ ਮਿਤੀ

**Subject : Mintues of DDRC Meetings of Deptt. of Civil Engg held on 12-01-2018**

The DDRC Meeting of Deptt. of Civil Engg, GZSCCET, Bathinda was held on 12-01-2018 at MRSPTU, Bathinda. Following candidate presented themselves before the committee for MRSPTU, PhD Admission Jan-2018.

1. Pankaj Mittal

The committee recommends the provisional admission of candidate subjected to fulfilment/submission of following documents, as applicable, within two weeks.

- NOC From Employer for pursuing Regular Course Work
- Migration Certificate

After successful submission of these documents and admission fee deposition, pre-PhD course work and supervisor are recommended as follows-

Name of Candidate	Course Allocated with Sub-Code	L-T-P-C	Supervisor Allocated
1. Pankaj Mittal	1. Research Methodology (MREM0-101) 2. Pavement Design Construction & Maintenance (MCIE6-365) 3. Software lab-Project Planning (MCIE6-104) 4. Seminar	4-0-0-4 4-0-0-4 0-0-4-2 0-0-2-1	Dr Sanjiv Kr Agarwal

The meeting ended with vote of thanks to the Chairman

*Paramjit Singh*  
(Chairperson) 12/1

Dr Paramjit Singh  
Dean Faculty & Engg

*Rakesh Singh*  
12.01.2018  
Member

(Dr Rakesh Singh)

*Sanjiv Aggarwal*  
12.1.18  
Member  
(Dr Sanjiv Aggarwal)

*Bal Krishan*  
12/01/18  
Member  
(Dr Bal Krishan)

*Munir Bansal*  
12/01/18  
Member  
(Dr Munir Bansal)

*S Bansal*  
12.1.18  
Member  
(Dr S Bansal)  
Dean R.D.  
*R.K. Bansal*  
12.1.18  
(Dr R.K. Bansal)

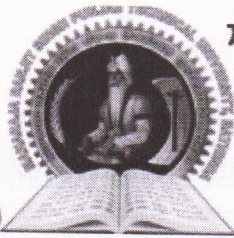
ਪ੍ਰੋ. (ਡਾ.) ਸਵੀਨਾ ਬਾਂਸਲ

ਡੀਨ (ਖੋਜ ਅਤੇ ਵਿਕਾਸ)

Prof. (Dr) SAVINA BANSAL

PhD (Engg) FIE, FIETE, SMCSI

DEAN (Research & Development)



ਮਹਾਰਾਜਾ ਰਣਜੀਤ ਸਿੰਘ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ

(ਯੂ.ਜੀ.ਸੀ. ਵੱਲੋਂ ਮਾਨਤਾ ਪ੍ਰਾਪਤ)

Maharaja Ranjit Singh Punjab Technical University

(Act 5(2015) of Pb & 2(f) of UGC)

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Ref No: DRD/MRSPTU/ \_\_\_\_\_ ਪੱਤਰ ਨੰ: ਡ.ਖ.ਵ/ਮਰਸਪਟਯ

Dated: \_\_\_\_\_: ਮਿਤੀ

**Subject : Minutues of DDRC Meeting of Deptt. of ECE held on 12-01-2018**

a) The DDRC Meeting of Deptt. of ECE, GZSCCET, Bathinda was held on 12-01-2018 at MRSPTU, Bathinda. Following candidates presented themselves before the committee for MRSPTU, PhD Admission Jan-2018.

1. Sahil Gupta
2. Ravi Verma
3. Ankur GUPTA

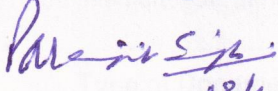
The committee recommends the provisional admission of candidates subjected to fulfilment/submission of following documents, as applicable, within two weeks.

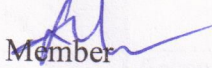
- a) Supervisor Consent Form
- b) NOC From Employer for pursuing Regular Course Work
- c) Migration Certificate (in original)
- d) Research proposal (1-2 pages)

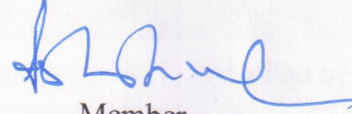
After successful submission of these documents and admission fee deposition, pre-PhD course work and supervisor are recommended as follows-

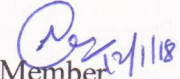
Name of Candidate	Course Allocated with Sub-Code	L-T-P-C	Supervisor Allocated
1. Sahil Gupta	1. Research Methodology (MREM0-101)	4-0-0-4	Dr Shaweta Rani
2. Ravi Verma	2. Soft Computing (MECE1-163)	4-0-0-4	(ECE, GZSCCET)
3. Ankur	3. Research lab	0-0-4-2	Dr Rajni (SBSSTC)
	4. Seminar	0-0-2-1	Dr Amit Manocha
			(PIT, Moga)

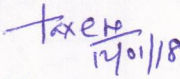
The meeting ended with vote of thanks to the Chairman

  
(Chairperson)  
(Dr Paramjit Singh) Dean Fac. of Engg

  
Member  
(Dr. Savina Bansal)

  
Member  
(Dr Ashok Goel)

  
Member  
(Dr Narender Garg)

  
Member  
(Dr Jyoti Saxena)

Member

ਪ੍ਰੋ. (ਡਾ.) ਸਵੀਨਾ ਬਾਂਸਲ

ਡੀਨ (ਖੋਜ ਅਤੇ ਵਿਕਾਸ)

Prof. (Dr) SAVINA BANSAL

PhD (Engg) FIE, FIETE, SMCSI

DEAN (Research & Development)



ਮਹਾਰਾਜਾ ਰਣਜੀਤ ਸਿੰਘ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ

(ਯੂ.ਜੀ.ਸੀ. ਵੱਲੋਂ ਮਾਨਤਾ ਪ੍ਰਾਪਤ)

Maharaja Ranjit Singh Punjab Technical University

(Act 5(2015) of Pb & 2(f) of UGC)

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Dated: \_\_\_\_\_ ਮਿਤੀ

**Subject : Mintues of DDRC Meetings of Deptt. of Mechanical Engg held on 12-01-2018**

The DDRC Meeting of Deptt. of Mechanical Engg, GZSCCET, Bathinda was held on 12-01-2018 at MRSPTU, Bathinda. Following candidate presented himself before the committee for MRSPTU, PhD Admission Jan-2018.

1. Deepak Bansal

The committee recommends provisional admission of candidate subjected to fulfilment/submission of following documents, as applicable, within two weeks.

- Supervisor Consent Form
- NOC From Employer for pursuing Regular Course Work
- Migration Certificate

After successful submission of these documents and admission fee deposition, pre-PhD course work and supervisor are recommended as follows-

Name of Candidate	Course Allocated with Sub-Code	L-T-P-C	Supervisor Allocated
Deepak Bansal	1. Research Methodology (MREM0-101) 2. Advanced manufacturing processes (MMEE5-102) 3. Lab-II (MMEE5-210) 4. Seminar *	4-0-0-4 4-0-0-4 0-0-4-2 0-0-2-1	Dr Anil Jindal

To be approved by BoS/Academic Council (syllabus enclosed)

The meeting ended with vote of thanks to the Chairman

*Paramjit Singh*  
(Chairperson)  
(Dr Paramjit Singh)  
Dean Faculty & Engg

*Ru Bansal*  
Member  
12/1/18

*Ru Bansal*  
Member  
(Dr R K Bansal)  
12-1-18

*Rajesh Gupta*  
Member  
(Dr Rajesh Gupta)  
12/1/18

*Anil Jindal*  
Member  
(Dr Anil Jindal)  
12/1/18

*Balwinder Singh Sidhu*  
Member  
(Dr Balwinder Singh Sidhu)

**Department of Mechanical Engineering**  
(PME-001)

L-T-P-C

O-O-2-1

MM:SATISFACTORY/UNSATISFACTORY

**Seminar**

The PhD candidates shall choose Research topic pertaining to her/his research area in the Deptt and shall deliver three presentations in which other faculty members and research scholars shall also be present

*P. Singh*  
(Chairman) 12/11  
DDRC  
Dean Faculty of Engg  
Dr Parvinder Singh

*P. Singh*  
12/01/2018  
(Dr Balwinder S. Sidhu)  
*Rajesh Gupta*  
12/11/18  
(Dr Rajesh Gupta)

*Anil Jindal*  
12/01/18  
(Dr Anil Jindal)

*R.K. Bansal*  
12-1-18  
(Dr R.K. Bansal)

ਪ੍ਰੋ. (ਡਾ.) ਸਵੀਨਾ ਬਾਂਸਲ

ਡੀਨ (ਖੋਜ ਅਤੇ ਵਿਕਾਸ)

Prof. (Dr) SAVINA BANSAL

PhD (Engg) FIE, FIETE, SMCSI

DEAN (Research & Development)



ਮਹਾਰਾਜਾ ਰਣਜੀਤ ਸਿੰਘ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ

(ਯੂ.ਜੀ.ਸੀ. ਵੱਲੋਂ ਮਾਨਤਾ ਪ੍ਰਾਪਤ)

Maharaja Ranjit Singh Punjab Technical University

(Act 5(2015) of Pb & 2(f) of UGC)

ਡੱਬਵਾਲੀ ਰੋਡ, ਬਠਿੰਡਾ (ਪੰਜਾਬ) -151 001

Dabwali Road, Bathinda (Punjab) -151 001

RefNo: DRD/MRSPTU/ \_\_\_\_\_ ਪੱਤਰ ਨੰ: ਡ.ਖ.ਵ/ਮਰਸਪਟਯ

Dated: \_\_\_\_\_ ਮਿਤੀ

**Subject : Mintues of DDRC Meeting of Deptt. of Comm. & Mgt. held on 15-01-2018**

The DDRC Meeting of Deptt. of Commerce & Management, Bathinda was held on 15-01-2018 at MRSPTU, Bathinda. Following candidate presented himself before the committee PhD Admission Jan-2018.

1. Monika Bhatia
2. Priya
3. Krishan Lal
4. Harmandeep Kaur

The committee recommended the provisional admission of candidates subjected to fulfilment/submission of following documents, as applicable, within two weeks.

- a) Supervisor Consent Form
- b) NOC From Employer for pursuing Regular Course Work
- c) Migration Certificate (in original)
- d) Research Proposal (1-2) pages

After successful submission of these documents and admission fee deposition, pre-PhD course work and supervisor are recommended as follows-

Name of Candidate	Course Allocated with Sub-Code	L-T-P-C	Supervisor Allocated
1. Monika Bhatia	1. Research Methodology (MREM0-101)	4-0-0-4	Dr Pritpal Bhullar
2. Krishan Lal	2. Advanced in Financial Management (PCBM1-103)	4-0-0-4	
	3. Contemporary Issues in Management (PCBM1-101)	4-0-0-4	
	4. Seminar (PCBM1-102)	0-0-2-1	
3. Priya	1. Research Methodology (MREM0-101)	4-0-0-4	Dr Suman Kathuria
	2. Advanced in Financial Management (PCBM1-103)	4-0-0-4	
	3. Contemporary Issues in Management (PCBM1-101)	4-0-0-4	
	4. Organization Development (MBAD1-405)	4-0-0-4	
	5. Seminar (PCBM1-102)	0-0-2-1	
4. Harmandeep Kaur	1. Research Methodology (MREM0-101)	4-0-0-4	
	2. Advanced in HRM (PCBM1-104)	4-0-0-4	
	3. Contemporary Issues in Management (PCBM1-101)	4-0-0-4	
	4. Seminar (PCBM1-102)	0-0-2-1	

The meeting ended with vote of thanks to the Chairman

(Chairperson) \_\_\_\_\_

Dean Faculty  
(C & M)

(Dr. Sanjay Sharma)

Member

(Dr. Suman Kathuria)  
Ho D

Member

\_\_\_\_\_

(Dr. Pritpal Bhullar)

Member

(Dr. R. K. Bansal)

Member

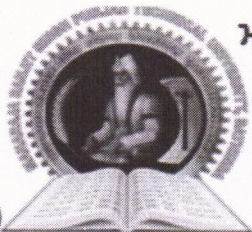
ਪ੍ਰੋ. (ਡਾ.) ਸਵੀਨਾ ਬਾਂਸਲ

ਡੀਨ (ਖੋਜ ਅਤੇ ਵਿਕਾਸ)

Prof. (Dr) SAVINA BANSAL

PhD (Engg) FIE, FIETE, SMCSI

DEAN (Research & Development)



ਮਹਾਰਾਜਾ ਰਣਜੀਤ ਸਿੰਘ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ

(ਯੂ.ਜੀ.ਸੀ. ਵੱਲੋਂ ਮਾਨਤਾ ਪ੍ਰਾਪਤ)

Maharaja Ranjit Singh Punjab Technical University

(Act 5(2015) of Pb & 2(f) of UGC)

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RefNo: DRD/MRSPTU/

ਪੱਤਰ ਨੰ: ਡ.ਖ.ਵ/ਮਰਸਪਟਯ

Dated: ਮਿਤੀ

**Sub: Minutes of DDRC Meeting of Faculty of Pharmacy held on 10-01-2018**

The DDRC meeting of Faculty of Pharmacy, GZSCCET, Bathinda was held on 10-01-2018 at MRSPTU, Bathinda. Following candidates presented themselves before the committee for MRSPTU, Ph.D. admission Jan – June 2018 in the discipline of Pharmaceutical Sciences under the faculty of Pharmacy.

The committee recommended the provisional admission of following candidate.


- Neha

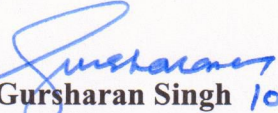
After approval and admission fee deposition, pre-Ph.D. course work and supervisor are recommended as follows:

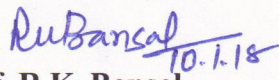
Name of Candidate	Course Allocated with Sub-Code	L-T-P-C	Supervisor Allocated
Neha	Research Methodology (MREM0-101)	4-0-0-4	Dr. Ashish Baldi
	Elements of Pharmaceutical Research (PPHD0-101)	3-1-0-4	
	Journal Club and Report Writing (PPHD 0-102)	0-0-3-2	
	Seminar (PPHD 0-103)	0-0-2-1	

Further, it was proposed that before the Ph.D. registration 6-monthly performance report of Ph.D. candidates (during course work and research proposal preparation) enrolled with a Dept. may be presented before the faculty of concerned Dept. in the presence of Supervisor and certificate of satisfactory progress be submitted to O/o Dean (R&D) for records.

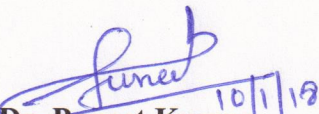
It is also proposed that >50 marks obtained in subject code PPHD0-103 may be termed as satisfactory. This may be put to academic council for approval.

  
Prof. Ashish Baldi  
(Chairman DDRC  
& Convener)

  
Prof. Gursharan Singh 10.1.18  
(Nominee of VC)

  
Prof. R.K. Bansal 10.1.18  
(Nominee of Dean R&D)

  
(Supervisor/s)

  
Dr. Puneet Kumar 10/1/18  
(Dept. Ph.D. Faculty)

ਪ੍ਰੋ. (ਡਾ.) ਸਵੀਨਾ ਬਾਂਸਲ

ਡੀਨ (ਖੋਜ ਅਤੇ ਵਿਕਾਸ)

Prof. (Dr) SAVINA BANSAL

PhD (Engg) FIE, FIETE, SMCSI

DEAN (Research & Development)



ਮਹਾਰਾਜਾ ਰਣਜੀਤ ਸਿੰਘ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ

(ਯੂ.ਜੀ.ਸੀ. ਵੱਲੋਂ ਮਾਨਤਾ ਪ੍ਰਾਪਤ)

Maharaja Ranjit Singh Punjab Technical University

(Act 5(2015) of Pb & 2(f) of UGC)

ਡੱਬਵਾਲੀ ਰੋਡ, ਬਠਿੰਡਾ (ਪੰਜਾਬ) -151 001

Dabwali Road, Bathinda (Punjab) -151 001

RefNo: DRD/MRSPTU/\_\_\_\_\_ ਪੱਤਰ ਨੰ: ਡ.ਖ.ਵ/ਮਰਸਪਟਯ

Dated: \_\_\_\_\_:ਮਿਤੀ

**Subject : Mintues of DDRC Meetings of Deptt. of Textile Engg held on 12-01-2018**

The DDRC Meeting of Deptt. of Textile Engg, GZSCCET, Bathinda was held on 12-01-2018 at MRSPTU, Bathinda. Following candidate presented himself before the committee for MRSPTU, PhD Admission Jan-2018.

1. Saurabh Garg

The committee recommended the provisional admission of candidate subjected to fulfilment/submission of following document within 2 weeks.

- a) NOC From Employer for pursuing Regular Course Work

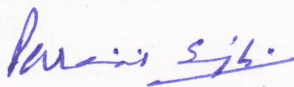
After successful submission of the document and admission fee deposition, pre-PhD course work and supervisor are recommended as follows-

Name of Candidate	Course Allocated with Sub-Code	L-T-P-C	Supervisor Allocated
01. Saurabh Garg	1. Research Methodology (MREM0-101)	4-0-0-4	Dr Rajeev Kr Vashney (GZSCCET)
	2. Colouration and finishing technology (MTTE-204)	4-0-0-4	
	3. Physical Properties of Fibres (MTTE 103)	4-0-0-4	
	4. Seminar*	0-0-2-1	

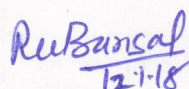
- Syllabus as enclosed to be approved by BoS/Academic Council

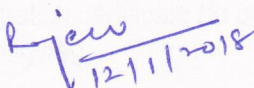
Further, it was decided that the DDRC recommendations for PhD admission shall remain applicable only upto 6 months at the most i.e. till the next DDRC meeting is held for admission, where candidate shall have to appear and apply afresh with the permission from the o/o Dean R&D.

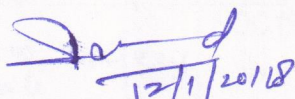
The meeting ended with vote of thanks to the Chairman

  
(Chairperson) 12/1  
(Dr Paramjit Singh) Dean R&D

Member

  
12-1-18  
Member  
(Dr. RK Bansal)

  
12/1/2018  
Member  
(Dr Rajeev Vashney)

  
12/1/2018  
Member  
(Dr Devanand Utham)

Member

## Department of Textile Engineering

L-T-P-C

0-0-2-1

MM:SATISFACTORY/UNSATISFACTORY

PTEX-001

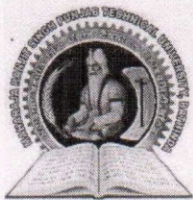
### Seminar

The PhD candidates shall choose Research topic pertaining to her/his research area in the Deptt and shall deliver three presentations in which other faculty members and research scholars shall also be present

Rajeev  
12/1/2018  
(Dr. Rajeev)  
V.V.  
Devanand  
12/1/18  
(Dr. Devanand / HOD)

Paramjit Singh  
12/1/18  
(Chairman DDRC)  
Dr. Paramjit Singh  
Dean Faculty of Engg

~~R.K. Bansal~~  
12/1/18  
R.K. Bansal  
12-1-18  
(Dr R.K. Bansal)



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

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

**DEAN ACADEMIC AFFAIRS**

**Ph. 0164-2284298, 8725072488**

**www.mrsptu.ac.in**

**daa.mrsstu@gmail.com**

**Ref. No.: DAA/MRSPTU/Notification/20**

**Date: 23.11.2017**

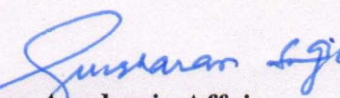
**NOTIFICATION**

**Maharaja Ranjit Singh Punjab Technical University, Bathinda Ph.D. Regulations-2016**

Maharaja Ranjit Singh Punjab 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 12<sup>th</sup> 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, 2016, &

Consequent upon the Approval of Board of Governors of Maharaja Ranjit Singh Punjab Technical University, Bathinda (MRSPTU) in its 6<sup>th</sup> Meeting held on 25.07.2017 vide agenda item no. 6.7 and 6.34, the University has framed the following Regulations, hereby known as '**Maharaja Ranjit Singh Punjab Technical University, Bathinda Ph.D. Regulations-2016**' 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.

  
**Dean Academic Affairs** 23/11/2017

**Copy to:**

1. P.A. to Vice Chancellor MRSPTU for information of the Vice Chancellor please.
2. Registrar, MRSPTU, Bathinda
3. Dean (R&D) MRSPTU, Bathinda
4. Director IT Enabled Services for uploading it on www.mrsptu.ac.in in Academic Page
5. Master File

**MRSPTU**

**DOCTOR OF PHILOSOPHY**

**REGULATIONS -2016**



**MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY**

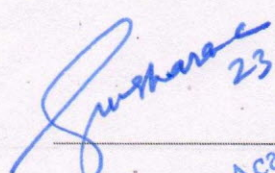
*(Established by State Govt of Punjab under Punjab Act 5 of 2015 and UGC Act 2 (f))*

Dabwali Road, Bathinda (Punjab)-151001

*Jyotsna*  
23/11/17.  
Dean Academic Affairs,  
MRSSTU, Bathinda

### **PREAMBLE**

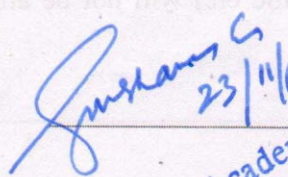
MRSPTU, Bathinda offers academic programme leading to the award of PhD degree through its Departments and approved research centres installed in its affiliated colleges and approved collaborative units. The award of PhD degree shall be in recognition of high academic achievements, independent and original 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 PhD 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 (PhD) of the Maharaja Ranjit Singh Punjab Technical University, Bathinda shall be conferred on a candidate who successfully completes all the requirements specified in these PhD regulations, which are approved by the competent authority.

  
23/11/17  
Dean Academic Affairs,  
MRSSTU, Bathinda

## **OUTLINE**

The academic programme leading to the PhD degree is broad-based that involves successful completion of a mandatory course work, research work presentations, and a research thesis. To streamline this program, PhD 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 PhD 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 PhD 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 PhD 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.

  
23/11/17  
Dean Academic Affairs,  
MRSSTU, Bathinda

**MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY**  
**BATHINDA**

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

**PhD DEGREE REGULATIONS-2016**

**1.0 ELIGIBILITY**

- i) The Admission to PhD 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/OBC(non-creamy layer)/differently-abled and other categories of candidates as per the decision of the University Grants Commission from time to time) (or an equivalent grade in a point scale wherever grading system is followed) in Master's Degree (in Engineering/Technology/ Science/Architecture/ Management/Computer application /Pharmacy (or Pharm-D) /Humanities and in those other areas, in which University decides to undertake the curriculum) of MRSPTU, Bathinda or an equivalent degree of recognized Indian or Foreign University (recognized by UGC/AIU/or any other approved and authorized statutory Assessment and Accreditation agency) in the subject concerned/allied subject/cognate subject shall be eligible.
- ii) A relaxation of 5% of marks, from 55% to 50%, or an equivalent relaxation of grade, may be allowed for those belonging to SC/ST/OBC(non-creamy layer)/Differently-abled and other categories of candidates as per the decision of UGC from time to time, or for those who had obtained their Master's degree prior to 19th September, 1991. The eligibility marks of 55% (or an equivalent grade in a point scale wherever grading system is followed) and the relaxation of 5% to the categories mentioned above are permissible based only on the qualifying marks without including the grace mark procedures
- iii) Candidates already having PhD 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.
- iv) Only Post Graduation in a subject is essential qualification to pursue PhD degree and Undergraduate candidates (like BTech/BPharm/BSc etc) will not be allowed to register for PhD degree.

*Sushama*  
23/11/17  
Dean Academic Affairs,  
MRSSTU, Bathinda

## 2.0 ADMISSION

The candidates shall be admitted by the University following a two stage process based on qualifying an i) PhD entrance test and ii) a subsequent interview/viva voce.

### 2.1 PhD ENTRANCE TEST (PET):

Subjected to the availability of slots/seats and research resources in a particular Faculty and Discipline, aspirant students shall be required to appear in a written PhD entrance test (PET) to be conducted by the University. PET shall be a **qualifying** test of 100 marks to examine the student's depth of knowledge in concerned subject/discipline (50%) and research methodology (50%) including research related aptitude, analytical capability and language skills.

Candidates securing at least 50% marks or above shall be eligible for the interview.

The test score shall remain valid for 01 academic year or till next test only. Merit list for admission shall be prepared out of **100** marks (weightage of 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 PhD.**

### 2.2 TEST EXEMPTION:

- i) Candidates who have qualified UGC-NET (including JRF)/UGC-CSIR NET (including JRF)/SLET (Punjab State)/ GATE/ GPAT/INSPIRE/teacher Fellowship holders/awardees (AICTE/UGC/ MHRD) and those sponsored by Government (State/Union/ UT)/Public Enterprises/ DRDO/CSIR/ recognized research labs shall be exempted from PET (**candidates appointed in the project sponsored by above agencies are not exempted from Entrance Test**).
- ii) Similarly, the MPhil degree holders from this University **with minimum 60% (55% in case of SC/ST/OBC(non-creamy layer)/differently-abled and other categories of candidates as per the decision of the UGC from time to time)** or equivalent in grade or any other UGC approved/recognized University are exempted from the written test for the PhD 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 or regular Teaching/Research Experience: 10 @2 per year ; 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, which shall be the second stage of admission process.

### 2.3 INTERVIEW:

Successful shortlisted candidates (as per the PhD 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 through a presentation and to adjudge the candidate's competency, suitability of research place, and contribution of proposed research toward new/additional knowledge, 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 **full-time** PhD, 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 PhD at any time during the session.

### 2.5 RESERVATION

National/State reservation policy shall be paid due attention in the process of PhD 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 PhD admissions shall be applicable automatically.

### 3.0 FELLOWSHIP/ SCHOLARSHIP

PhD 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 PhD provided they are eligible to be appointed as Supervisor and are actively involved in research, **with at least five publications in refereed Journals**, and having at least two years to superannuation. In case, in an area/discipline where there is no or only a limited number of refereed journals are available, the above condition shall be relaxed for recognition of a person as Research Supervisor with reasons recorded in writing.
- ii) Regular Associate Professors or equivalent and Regular Assistant Professors or equivalent associated with the University/its affiliated PG colleges, who hold PhD degree **with at least two research publications in refereed Journals** can supervise PhD students. However, an Assistant Professor level faculty with PhD must have cleared minimum 2 years of probation period successfully before supervising a PhD candidate.  
(In case, in an area/discipline where there is no or only a limited number of refereed journals are available, the above condition in clause 4.0 (i) and 4.0 (ii) shall be relaxed for recognition of a person as Research Supervisor with reasons recorded in writing.)
- iii) Supervisor must also figure in the approved list by 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/affiliated Institutions or from the other Institutions having MoU with the University, or from the

*Signature*  
23/11/17

Dean Academic Affairs  
MRSSTU, Bathinda

Institutes of National importance (like IIT/IIIT/IISER/IISc/NIT) or as recommended by the DDRC. 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/ care-taker 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:

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There shall not be more than **Eight** PhD scholars under supervision/co-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. The candidature shall normally remain in force till the successful defence of viva-voce examination of the Thesis.

#### 4.6 RELOCATION OF WOMAN PhD SCHOLAR

In case of relocation of an Ph.D. woman scholar due to marriage or otherwise, the research data shall be allowed to be transferred to the University to which the scholar intends to relocate provided all the other conditions in these regulations are followed in letter and spirit and the research work does not pertain to the project secured by the parent institution/ supervisor from any funding agency. The scholar will however give due credit to the parent guide and the institution for the part of research already done.

#### 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 PhD 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):

- 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):

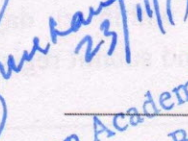
- i) Candidates working in Colleges/R&D Departments/Research laboratories in Units of Government/Quasi-Government/Industrial units, and sponsored by the respective employer/Organization, shall be called 'Part time (External)' candidates.
- ii) The place of research for the external candidates shall be respective Institution or Unit or organization as the case may be and Institutions where 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-PhD 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 PhD 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 PhD candidate (having MPhil./ MTech./ M.Pharma /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-PhD course-work. The Course work may or may not be from the parent department and shall be treated as pre-PhD 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-PhD 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 PhD during the middle of the semester will take up course work in the following semester.
- vi) The syllabus for Pre-PhD 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 or academic council 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.

  
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## 7.0 COURSE COMPLETION CRITERION

- i) Absolute grading system shall be followed for PhD Course work evaluation. A candidate is required to score minimum E Grade in all individual subjects and overall CGPA equivalent to 6.5 or above to qualify the course work (see Annexure –II for details).
- ii) The prescribed course work shall be completed during the initial one or two semesters from the date of enrolment/pre-registration. In case a candidate fails, he/she may request another chance recommended by supervisor to Dean (R&D) to complete the course work within **next** six months with extra fee as applicable. After this any further chance may be granted by VC with extra fees as applicable.
- iii) **As passing of pre-PhD Ph.D. Course Work is only an essential requirement for registration to the Ph.D. Programme of the University, no degree will be awarded to successful candidates in Ph.D. Course Work, only detailed mark sheet will be issued.**

## 8.0 RESEARCH PROPOSAL & PhD 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 including, 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 a panel of external experts within two-months preferably. Candidate shall be required to give presentation of her/his research proposal before the DDRC, in which faculty of any other department may also be present.

In case,

- i) The presentation/research proposal is accepted without any modifications by DDRC, the candidate shall apply for PhD 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 PhD registration on a *prescribed Performa* and submit registration

fees. A candidate shall be assumed to be registered for PhD from the date of her/his submission of PhD registration fee and undertaking the University "Honor Code".

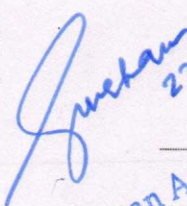
#### 8.1 CANCELLATION OF ENROLLMENT/REGISTRATION:

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

- i) The candidate does not enrol for course work in the ongoing/immediately following semester (if admitted mid-semester) on her/his admission to PhD without specifying any reason.
- ii) The candidate fails to obtain the CGPA required to qualify the course work within the stipulated time (first two semesters of enrolment).
- iii. The progress of the candidate is found Unsatisfactory by the Supervisor and DDRC as per clause 9.0(iv).
- 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 PhD shall submit progress-report on the work done after every six months on *prescribed Performa* duly certified by Supervisor(s) and shall deliver open seminars before a DDRC or its subcommittee on the dates fixed by the concerned department with intimation to the office of Dean R&D, to apprise about the progress of her/his research, its evaluation and further guidance and to consider the feedback received, if any. The progress reports status shall be submitted to Dean (R&D) of University with a copy to the research scholar.
- ii) In case the progress of the research scholar is unsatisfactory, the DDRC shall record the reasons for the same and suggest corrective measures. If the research scholar fails to implement these corrective measures, the DDRC may recommend to Dean (R&D) with specific reasons for cancellation of the registration of the research scholar.

  
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- iii) The PhD student will maintain a complete record of research data collected or generated during the course of work and draft of the thesis.
- iv) 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 thesis for the PhD degree, unless (s)he has pursued research in the University/approved research centre for not less than thirty six months (Three years) from the date of enrolment.

### 10.2 MAXIMUM DURATION:

The maximum period for the submission of PhD thesis shall be seventy two months (Six years) from the date of PhD enrolment.

### 10.3 EXTENSION OF DURATION:

- i) Provided in exceptional circumstances, the DDRC 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.
- iii) The women candidates and Persons with Disability (more than 40% disability) shall be allowed a relaxation of two years for Ph.D. in the maximum duration. In addition, the women candidates shall be provided Maternity Leave/Child Care Leave once in the entire duration of Ph.D. for up to 240 days.

## 11.0 ATTENDANCE AND LEAVE

- i) Full time PhD 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. Absenteeism shall attract cut in fellowship/scholarship.
- ii) A PhD scholar cannot avail more than one month leave in a year. (15 on incidental accounts (20 for women candidates) +15 on medical grounds). Leave not availed shall not be accumulated at the lapse of the year (31<sup>st</sup> 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 PhD 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' list can be supplemented by DDRC for thorough, impartial and unbiased evaluation of the work.

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- 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 PhD 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 make two paper presentations in conferences/seminars 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 PhD 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

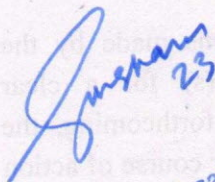
shall be free to select the other examiners either from the list of the subject experts of the UGC or on her/his own initiative guided by the references or from the submitted panel. The PhD thesis submitted by the candidate shall be examined by the three external examiners while the Supervisor(s) shall 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).

#### 15.1 THESIS REQUIREMENTS:

- i) The PhD 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.
- iv) 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.

  
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## 16.0 THESIS EVALUATION

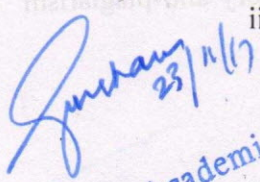
Examiners in the approved board of examiners will examine the thesis individually with a view to judge the suitability of the thesis as a piece of research work worth awarding PhD. Each examiner will send detailed comments on the research work to the office of Dean R&D, along with a clear recommendation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

- A. The thesis is **SATISFACTORY** and recommended for the award of PhD, or
- B. The thesis is **RECOMMENDED** for the award of PhD 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 PhD 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**.

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

  
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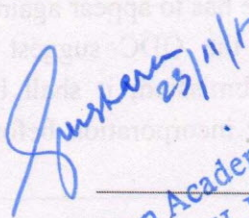
for decision. The decision of VC shall be final and binding.

- 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.

- 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 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 PhD 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 be allowed. The revised thesis shall be referred for assessment to the examiners selected from a new panel of experts recommended by

  
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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 PhD duration as per clause 10.0. Candidate shall have to pay the Thesis Re-submission fee as applicable.

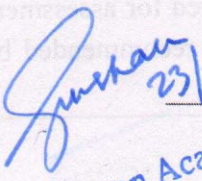
#### 17.0 ORAL THESIS DEFENCE

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** 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

  
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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 defence, 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 an electronic copy of final thesis on a CD through Supervisor(s) to HoD, who shall forward the same along with the ODC report recommending award of the PhD 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, 2016, -

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by the concerned academic section.

## 19.0 AWARD OF PhD DEGREE

The Degree of PhD shall be awarded by the Highest Academic Body of the MRSPTU, Bathinda 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 PhD, the University shall submit a soft copy of the PhD 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.

Prior to the actual award of the degree, the University shall issue a provisional Certificate to the effect that the Degree has been awarded in accordance with the provisions of these UGC Regulations, 2016.

## 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. **Any interim decision taken by VC shall have to be ratified by the URB/Academic council in the next meeting.**

*Note: This incorporates all the provisions contained in UGC (Minimum Standards and Procedure for Award of M.Phil/Ph.D Degree) Regulation, 2016.*

*Students admitted under the UGC (Minimum Standards and Procedure for Award of Ph.D. degree) regulations, 2016, shall be treated to be registered as per the amended rules as applicable from time to time.*

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**ANNEXURE I**

**COMPOSITION and RESPONSIBILITIES OF Ph.D. RELATED COMMITTEES**

**A) UNIVERSITY RESEARCH BOARD (URB)**

- 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 University PhD 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.

URB shall be the final decision making body-

- For any doubt or dispute about the interpretation of these Regulations
- For any other Research related issue referred to it by the competent authority.
- To modify/clarify/issue addendum to these regulations, if required at any time.

Composition of University Research Board (URB)		
a)	Vice-Chancellor	Chairperson
b)	Dean R&D	Member-Secretary
c)	Dean of various Faculties	Member
d)	Dean Academics	Member
e)	All other Professors from various Departments of University	Member
f)	Two Associate professors and two Assistant professors of the University by rotation according to seniority, provided they hold a Ph.D. degree	Member
g)	Two experts holding Ph.D. degree from the affiliated colleges of the university to be nominated by the Vice-Chancellor.	Member

*Signature* 23/4/17  
Dean Academic Affairs,  
MRSSTU, Bathinda.

**B) DEPARTMENT DOCTORAL RESEARCH COMMITTEE (DDRC)**

Every department offering PhD 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 PhD 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, MRSPTU.

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

1. For the evaluation of PhD 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 PhD 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 PhD admission of the University.
4. For critically scrutinizing the research proposal submitted by the candidate, after the successful completion of pre-PhD course-work and open presentation made thereafter by the candidate, before recommending her/his name for confirmation of registration for PhD 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 scrutinising 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 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 scrutinising and critically analysing the pre-thesis synopsis, other mandatory

requirements as per approved PhD 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 candidates's PhD program as specified in PhD regulations
9. for any other PhD related work as assigned to it by the competent authority

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

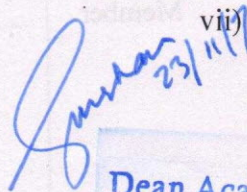
Composition of Department Doctoral Research Committee (DDRC)		
1)	Dean of concerned faculty / Chairperson BoS of concerned Discipline having PhD	Chairperson (Ex-officio)
2)	One Faculty member having PhD from outside the Department/ school of University <b>to be nominated by VC</b>	Member
3)	One nominee of Dean R&D in the cognate area from University	Member
4)	All Faculty members having PhD 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)	<b>Convener/</b> Member
6)	One outside expert * *(out of the three proposed by Supervisor/or from the approved panel of outside PhD experts of concerned Department/School/ or recommended/ nominated by VC through Dean R&D)	Member
7)	Head of Department/centre/school in the University/centre/ or PhD Coordinator of the Department (in case of Non-PhD, HoD)	Member

\* In case of non-availability of experts in the relevant area of specialisation in the

*Imran* 23/11/17  
Dean Academic Affairs  
MRSSTU, Bathinda

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 defence shall normally be held at MRSPTU University campus.

  
Dean Academic Affairs,  
MRSSTU, Bathinda

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## ANNEXURE II: Ph.D. COURSE WORK

Absolute grading system will be followed for students of Ph.D Course work as applicable under the MRSPTU academic regulations. In order to qualify the course work for PhD registration, student has to obtain at least 'E' grade in all individual subjects and over all CGPA equivalent to 6.5 or above. The back conversion of SGPA or CGPA to percent score will be multiplication of SGPA or CGPA by 9.4. The details of Absolute Grading system are as under:

Performance Grade given in a course	Grade Point	Marks obtained (i) (%)	Academic Performance /Status
A	10	$\geq 90$	Excellent
B	9	$80 \leq x_i < 90$	Very Good
C	8	$70 \leq x_i < 80$	Good
D	7	$60 \leq x_i < 70$	Average
E	6	$50 \leq x_i < 60$	Pass
F	0	$< 50$	Fail
R	0	Detained on attendance basis	Candidate has to repeat the subject by attending classes of the concerned course or he/she can opt any other subject in lieu of such by taking approval from supervisor and DDRC.

### Seminar:

Each student registered for Ph.D. will have to undertake at least one credit of seminar based on her/his research area after 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 PhD shall pay fees for course work and other related semesters as per the applicable rules of the University from time to time.

*Signature*  
23/11/17

Dean Academic Affairs,  
MRSSTU, Bathinda

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# Maharaja Ranjit Singh Punjab 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.mrsptu.ac.in](http://www.mrsptu.ac.in)

Ref. No.: DAA/MRSPTU/Notifications/22

[daa@mrsptu.ac.in](mailto:daa@mrsptu.ac.in)

[daa.mrsstu@gmail.com](mailto:daa.mrsstu@gmail.com)

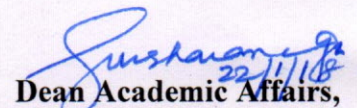
Date: 22-01-2018

## NOTIFICATION

**Sub.: Amendment in Ph.D. Regulation 2016 in Clause No. 4.1 (ii).**

In partial modification of Ph.D. Regulations 2016, notified vide DAA/MRSPTU/Notifications/20 dated 23.11.2017, it is clarified that in the Clause 4.1 (ii), the condition of clearance of 2 years probation period for Assistant Professor level faculty is not mandatory. This has the reference to earlier notification issued in this regard vide DAA/MRSPTU/Notifications/1 dated 18.05.2017 and already ratified by the competent authority.

This notification supersedes Clause No. 4.1 (ii) of the earlier notification notified vide DAA/MRSPTU/Notifications/20 dated 23.11.2017 issued in this regard.

  
Dean Academic Affairs,  
MRSPTU, Bathinda

### **Copy to:**

1. P.A. to the Vice Chancellor MRSPTU, Bathinda for information to the Vice Chancellor please.
2. Registrar, MRSPTU, Bathinda
3. Dean (R&D) MRSPTU, Bathinda
4. Director IT Enabled Services, MRSPTU for uploading it on [www.mrsptu.ac.in](http://www.mrsptu.ac.in) in Academic Page
5. Master File

HM/17/379  
01.08.17

# Giani Zail Singh Campus College of Engineering & Technology

DABWALI ROAD, BATHINDA-151001

(Constituent College of Maharaja Ranjit Singh Punjab Technical University, Bathinda)

## Department of Humanities & Management Studies

Sub:- Proposal to include Information Technology as one of the specializations to be offered in MBA Programme for Constituent/Affiliated Colleges for the 2016-17 session onwards

It is to inform you that,

1. For the 2015-16 session of MRSPTU, Bathinda the syllabus of IKGPTU, Kapurthala was being followed. At that time, in the MBA syllabus, there were five specializations: Marketing, Finance, Operations, Human Resource Management and Information Technology.
2. For the 2016-17 session of MRSPTU, Bathinda the four specializations were included in MBA Programme: Marketing, Finance, Operations, Human Resource Management. The proposal to add Information Technology specialization in MBA was put up in the meeting of Faculty of Commerce and Management on 05-05-2017, but it was not approved. As a result, there are only four specializations in MBA for 2016-17 session and onwards, for Constituent/Affiliated Colleges.
3. Some institutions are emphasizing that Information Technology must be included as one of the specializations in MBA, as the same was available upto 2015-16 session. In view of the requests received from the various institutions, it is proposed that Information Technology be included as one of the specializations in MBA for 2016-17 session onwards, for Constituent/Affiliated Colleges.

~~4- Specializations~~

*Singh*  
01/08/17

Chairperson, Board of Studies.  
Commerce and Business Management

*Gursharan Singh*  
02/8/17  
Dean Academic Affairs,  
MRSPTU, Bathinda

Syllabus of MBA with specialization in Information Technology  
approved by BOS in Commerce & Management is attached  
& the same may be approved in anticipation of  
approval by Academic Council.

*Gursharan Singh*  
DAA-MRSPTU  
02/8/17

*Ph. Singh*  
VICE CHANCELLOR

Copy to: HOD Hum. & Mgt.

received  
02/8/17  
Approved  
to be placed before  
Ac. for ratification



# GIANI ZAIL SINGH CAMPUS

## COLLEGE OF ENGINEERING & TECHNOLOGY, BATHINDA

(Maharaja Ranjit Singh Punjab Technical University, Bathinda)

### Department of Humanities & Management Studies

Ref. No. HM/17/

Dated:

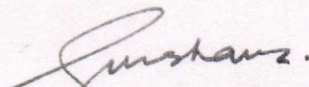
**Subject:** Minutes of Meeting held on 25/07/2017 at the office of Dean Academic Affairs regarding Soft Skills.

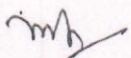
A meeting was held in the office of Dean Academic Affairs on 25/7/17 at 3p.m regarding syllabus of Soft Skills.

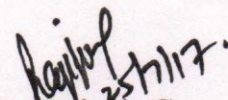
The following were present during the meeting :

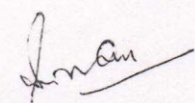
1. Dr. Gursharan Singh, Dean Academic Affairs, MRSPTU, Bathinda.
2. Dr. Ashok Goel, Director, CDC, MRSPTU, Bathinda.
3. Dr. Rajesh Gupta, Training & Placement Officer, MRSPTU, Bathinda
4. Dr. Suman Kathuria, Chairperson, BOS, Commerce & Management.
5. Ms. Pooja Sharma, Assistant Professor.

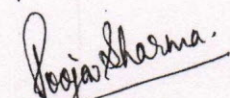
The committee finalised the syllabus of Soft Skills – I, II, III, IV courses.

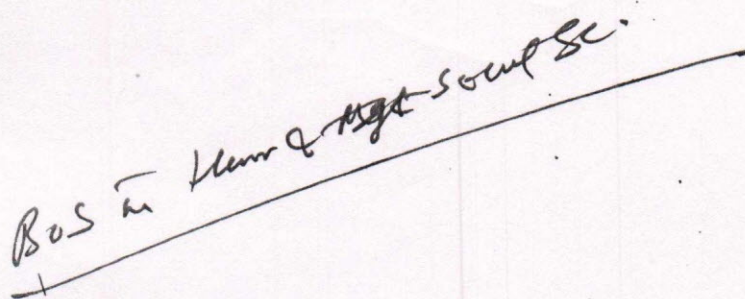
  
(Dr. Gursharan Singh)

  
(Dr. Ashok Goel)

  
(Dr. Rajesh Gupta)

  
(Dr. Suman Kathuria)

  
(Ms. Pooja Sharma)

  
BOS in Comm & Mgt Studies

**Agenda Item for 2<sup>nd</sup> Meeting of Standing Committee of Academic Council on 26.2.2018**

In the light of model syllabus uploaded by AICTE for different branches of engineering, it is recommended that topics like Laplace Transforms, Fourier transforms, Partial differential equations and Numerical methods which are usually covered under Math-III, Math-IV should be the core subjects of engineering branches, especially B.Tech. Mechanical, Electrical, ECE and CSE. Previously, these subjects were compulsory subjects in B.Tech. 3<sup>rd</sup> or 4<sup>th</sup> semesters of these branches, but under MRSPTU, Bathinda, Math-III, Math-IV and Numerical methods are not included in the syllabus of B.Tech. So it is proposed that these subjects Math-III & Math-IV be included in B.Tech. 3<sup>rd</sup> & 4<sup>th</sup> semesters of these branches and Numerical Methods in 5<sup>th</sup> semester of B.Tech. Mechanical and Electrical branches.

**KARANVIR SINGH**  
**CHAIRPERSON BOS IN MATHEMATICS**