

**MRSPTU COURSE PLAN 2016 BATCH**  
**COURSE CODE: MBOT1-209      COURSE: ENZYME TECHNOLOGY**

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Class: M.Sc. Biotechnology  
Batch: 2016

Semester: II      Session: 2016-17

Course: Enzyme Technology

Course Code: MBOT1-209

Name of Course Coordinator: Saket Chandra

Designation: Asst. Prof

College: ISF Institute of Professional studies

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Syllabus for 1 <sup>st</sup> Mid Semester Test	Unit 1 & 2
Syllabus for 2 <sup>nd</sup> Mid Semester Test	
1 <sup>st</sup> Assignment (Appendix-1)	Date of Issue: 7-2-2017 Last date for Submission: 9-2-2017
2 <sup>nd</sup> Assignment (Appendix-2)	Date of Issue: 7-2-2017 Last date for Submission: 9-2-2017
3 <sup>rd</sup> Assignment (Appendix-3)	Date of Issue: Last date for Submission:
4 <sup>th</sup> Assignment (Appendix-4)	Date of Issue: Last date for Submission:

Date: 09-2-2017

Signature: saket

Note:

1. The filled Performa is to be submitted by the Course Coordinator by email to [daa.mrsstu@gmail.com](mailto:daa.mrsstu@gmail.com) immediately so that the information contained in it can be uploaded on [www.mrsptu.ac.in](http://www.mrsptu.ac.in).
2. The assignments are to be attached with email.
3. The Course Coordinators will prepare detailed solutions of the problems contained in the assignments.
4. Both word files and PDF files are to be submitted.

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**Assignment 1**

**(MM. 40)**

1. Short notes on: (5 marks each)
  - a. Coenzyme A
  - b. Pyridoxal phosphate
  - c. NAD
  - d. Biotin
2. Describe about the mechanism of action of Lysozyme. (10 marks)
3. Discuss the enzyme action of chymotrypsin. (10 marks)

**Assignment 2**

**(MM.40)**

1. Write short notes on the following: (4x5)
  - a.  $K_m$
  - b. Role of metal ions in enzyme catalysis
  - c. Nucleophilic and electrophilic attack in enzyme catalysis
  - d. Lineweaver-Burk plot
2. Define enzyme inhibition and discuss different types of enzyme inhibition (10 marks)
3. Derive Michaelis-Menten equation (10 marks)