

Maulana Abul Kalam Azad University of Technology, West Bengal
(Formerly West Bengal University of Technology)
Syllabus for B. Tech in Biotechnology
 (Applicable from the academic session 2018-2019)

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|---|--|----------|-----------|-------------------|------------------|---------------------------|
| Course Code | PW-BT891 | | | | | |
| Category | Project | | | | | |
| Course title | Project Work (In-house /Industry/Research Institute) | | | | | |
| Scheme and Credits | L | T | P | Cr. Points | Lab. Hrs. | Semester: VIII |
| | 0 | 0 | 12 | 10 | 12 | |
| Pre-requisites/ Co-requisites (if any) | - | | | | | |

Course Objective:

The objectives of the course are:

Final Year Projects represent the culmination of study towards the Bachelor of Engineering degree. Projects offer the opportunity to apply and extend material learned throughout the program.

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Course Outcome (CO):

After successful completion of this course, the student will be able to:

1. **Demonstrate** a sound technical knowledge of their selected project topic.
2. **Undertake** problem identification, formulation and solution.
3. **Design** engineering solutions to complex problems utilizing a systems approach.
4. **Conduct** an engineering project
5. **Communicate** with engineers and the community at large in written and oral forms.
6. **Demonstrate** the knowledge, skills and attitudes of a professional engineer.

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|---|---|----------|----------|-------------------|------------------|---------------------------|
| Course Code | PW-BT892 | | | | | |
| Category | Project | | | | | |
| Course title | Project Report-II and defense Seminar by PPT | | | | | |
| Scheme and Credits | L | T | P | Cr. Points | Lab. Hrs. | Semester: VIII |
| | 0 | 0 | 0 | 2 | | |
| Pre-requisites/ Co-requisites (if any) | - | | | | | |

Course Objective:

The objectives of the course are:

Students will prepare dissertation and presentation of works on research topic that will increase their skills of both theoretical and practical knowledge simultaneously.

Course Outcome (CO):

After successful completion of this course, the student will be able to:

1. **Demonstrate** the writing ability through the process of revision in order to advance their ideas and communicate more effectively with their readers.
2. **Exhibit** the ability to present the assignment to the audience .
3. **Ability** to identify the disciplinary context for different kinds of writing, including both informal and formal writing.
4. **Express** the ability to construct a paper consistent with expectations of the discipline, including an appropriate organization, style, voice, and tone.

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|---|---|----------|----------|-------------------|------------------|---------------------------|
| Course Code | PW-BT893 | | | | | |
| Category | Project/Overall | | | | | |
| Course title | Grand Viva (Comprehensive Viva Voce) | | | | | |
| Scheme and Credits | L | T | P | Cr. Points | Lab. Hrs. | Semester: VIII |
| | 0 | 0 | 0 | 2 | 0 | |
| Pre-requisites/ Co-requisites (if any) | - | | | | | |

Course Objective:

The objectives of the course are:

Viva voce will be conducted at the end of the programme which will be covering the entire syllabus. This will test the student's learning and understanding during the course of their undergraduate programme. In doing so, the main objective of this course is to prepare the students to face interview both at the academic and the industrial sector.

Course Outcome (CO):

After successful completion of this course, the student will be able to:

1. **Exhibit** the strength and grip on the fundamentals of the subjects studied in the previous semesters
2. **To evaluate** overall technical knowledge and industry readiness.
3. **To go** under a virtual environment of technical interview.
4. **To check** the ability to function effectively individually and on teams, including diverse and multidisciplinary areas, to accomplish a common goal.
5. **Comprehend** for all the courses studied in the entire programme
6. **To analyze** various application of Biotechnology in real life problem solving.