

FACULTY OF ENGINEERING & TECHNOLOGY

Effective from Academic Batch: 2022-23

Programme: BACHELOR OF TECHNOLOGY (Electronics and Communication)

Semester: VIII

Course Code: 202060801

Course Title: Project (UDP/IDP)

Course Group: Professional Core Course

Course Objectives: To enhance employability skills of the student's project work is required. It provides practical experience in the field of Electrical Engineering and helps to reinforce theoretical knowledge gained in different courses to solve real life challenges. The students are given exposure to explore the new developments and techniques, which can lead them to self-employment or even employment generation through extension of the work done in the project.

Teaching & Examination Scheme:

Contact hours per week			Course Credits	Examination Marks (Maximum / Passing)				
Lecture	Tutorial	Practical		Theory		J/V/P*		Total
				Internal	External	Internal	External	
0	0	16	8	0 / 0	0/0	75/26	75/27	150/53

* J: Jury; V: Viva; P: Practical

General Guidelines for Project (UDP/IDP):

1. It can be either UDP (user defined project) OR IDP (Industry defined project).
2. There shall be a committee at department level to regulate the quality and quantity of the work of each team. A presentation by the team shall be made at the beginning of the semester to a committee formed by the head of the department. This presentation shall contain the detailed proposal of the project, which includes title of the project, well defined problem and a plan of activities with appropriate timelines. The role of team member shall preferably be defined as far as possible in this proposal itself.
3. The group size of the project team shall not be preferably more than 4 students. In case it is required to have more students it shall be approved by a committee.
4. The stereotype study of system/circuit etc shall be avoided, e.g. studies of Power transformer/400 kV substation are few examples, which shall be avoided.
5. The internal evaluation shall be done at the start of the semester, at the mid of the semester and at the end of the semester. The distribution of internal marks shall be decided by the committee.
6. The project work shall be carried out under the guidance of a faculty.



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7. Every team shall submit a report at the mid of the semester.
8. A comprehensive report is required to be prepared and submitted to the department at the end of the semester.
9. Considering the number of credits and the teaching hours, a substantial amount of work is required to be carried out by the student's team. It shall be monitored by the project guide and the department committee. The evaluation shall be done accordingly with due consideration given to the amount of work by the internal examiner and external examiner.
10. The team shall be encouraged to publish project work, if possible.
11. The evaluation by an external examiner shall be made considering the above guidelines.

The guidelines about the nature of project work are as following:

1. The project work can be simulation of circuits/system or hardware based upon the area and the complexity of the work involved.
2. If it contains only simulation, it shall be comprehensive. The team is expected to know the various aspects of simulation techniques in detail. The team shall be able to explain the results obtained in detail with all the aspects and different cases.
3. It can be a case study, innovative solution to real life problems, modeling and analysis, design, optimization, hardware prototype, industry defined problem, development of new lab setup at the department etc.
4. If it is a case study, it shall be a real-world case and of high technical relevance.
5. If the project is about modeling, the team is expected to know the proper mathematical formulation and justification of the modeling, its limitations and its possible applications. The comparison of performance of various models shall be covered as a part of the work. A detailed analysis of the results shall be done with the help of the model.
6. If the team and guide find it appropriate, the overall work can be a combination of different types of work above mentioned.

Distribution of Marks:

R Level	U Level	A Level	N Level	E Level	C Level
5	10	30	30	10	15

Course Outcomes (CO):

Sr. No.	Course Outcome Statements	% weightage
CO-1	Demonstrate a sound technical knowledge of their selected project topic	20
CO-2	Undertake problem identification, formulation and solution	20
CO-3	Design engineering solutions to complex problems utilizing a systems approach and team work	30
CO-4	Communicate with engineers and the community at large in written and oral forms	20
CO-5	Demonstrate the knowledge and understanding of engineering and management principle and apply it to assigned project	10

Reference:



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- AICTE Model curriculum
- AICTE Internship Policy:
<https://www.aicte-india.org/sites/default/files/AICTE%20Internship%20Policy.pdf>

Pedagogy:

- Audio Visual presentations/demonstrations
- Continuous assessment
- Seminar/Poster Presentation
- Industrial/ Field visits / Case Study

Curriculum Revision:

Version:	2.0
Drafted on (Month-Year):	June-2022
Last Reviewed on (Month-Year):	-
Next Review on (Month-Year):	June 2025