

Department of Electronics & Telecommunication

PBL Work Book

Year 2021-2022

Group/Project ID

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Team Members:

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Project Title :

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Project Guide :

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Area of the project:

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Matoshri Education Society's

Matoshri College of Engineering and Research Centre, Nashik

Eklahare, Near Odha Gaon, Aurangabad Road, Nashik

Matoshri College of Engineering and Research
Centre, Nashik

Department of Electronics & Telecommunication Engineering

Project Based Learning (204200)

Title of Project :
Project ID :
Name of Guide : Mr. P.A. Nawale
List of Group Members :

SR. No.	Name of Student	Roll No.	Exam No.	Mobile No.	Email -ID
1.					
2.					
3.					
4.					
5					
6					

Project Based Learning (204200)

Course Objectives: On completion of the course, learner will be able to –

- To emphasize project based learning activities that are long-term, interdisciplinary and student-centric.
- To inculcate independent and group learning by solving real world problem with the help of available resources.
- To be able to develop application based on the fundamentals of electronics and communication engineering by possibly the integration of previously acquired knowledge.
- To get practical experience in all steps in the life cycle of the development of electronic systems: specification, design, implementation, and testing.
- To be able to select and utilize appropriate hardware and software tools to design and analyze the proposed system.
- To provide every student the opportunity to get involved either individually or as a group so as to develop team skills and learn professionalism.

Course Outcomes: On completion of the course, learner will be able to –

CO1: Identify the real-world problem (possibly of interdisciplinary nature) through a rigorous literature survey and formulate / set relevant aim and objectives.

CO2: Contribute to society through proposed solution by strictly following professional ethics and safety measures.

CO3: Propose a suitable solution based on the fundamentals of electronics and communication engineering by possibly the integration of previously acquired knowledge.

CO4: Analyze the results and arrive at valid conclusion.

CO5: Use of technology in proposed work and demonstrate learning in oral and written form.

CO6: Develop ability to work as an individual and as a team member.

Project Selection:

Survey through journals, patents or field visit (A problem can be theoretical, practical, social, technical, symbolic, cultural and/or scientific), check the feasibility of solution, analyze the problem, design and find the values of components.

There are no commonly shared criteria for what constitutes an acceptable project. Projects vary greatly in the depth of the questions explored, the clarity of the learning goals, the content and structure of the activity.

The problem-based project oriented model for learning is recommended. The model begins with the identifying of a problem, often growing out of a question or “wondering”. This formulated problem then stands as the starting point for learning. A problem can be theoretical, practical, social, technical, symbolic, cultural and/or scientific and grows out of students’ wondering within different disciplines and professional environments. As stated in the preamble as electronics is an important grounding for other disciplines (computer science, signal processing, and communications), the project topic can be Interdisciplinary in nature. However the chosen problem must involve the application of electronics and communication engineering fundamentals. Out of the total developed system setup, the project must involve minimum 40% electronic components. Although in a genuine case 100% software based project topic may be allowed.

Ethical Practices, team work and project management:

Use IEEE standards for project manufacturing, respect the time of others, attend the reviews, poster presentation and model exhibitions, strictly follow the deadline of project completion, comply with all legislation requirements that govern workplace health and safety practice

Project Work Schedule

Sr. No.	Activity Scheduled	Date
1.	Registration of Project groups	
2.	Submission of Project Synopsis	
3.	Project presentations	
4.	Finalization of projects & allotment of guide	
5.	Submission of final synopsis	
6.	First presentation about progress of project work	
7.	Second presentation about progress of project work	
8.	Third /final presentation about progress of project work	
9	Submission of partial project report	
10	Project work Examination and Report submission	

Contest Participation Details.

A. Participation in project Competition

Sr. No.	Name and Place of Project Competition and Exhibition	Date	Certificates prizes won if any
1.			
2.			
3.			
4.			

- Attach attested copy of certificate/s

B. Paper Publication/ Presentation

Sr. No.	Name of Organizer	Date	Certificates/ Prizes won if any
1.			
2.			
3.			
4.			

- Attach attested copy of certificate/s

Matoshri College of Engineering and Research Centre,
Nashik

UNDERTAKING BY STUDENT

We, the students of S.E. Electronics & Telecommunication hereby assure that we will follow all the rules and regulations related to project activity for the academic year 2021 -2022.

The Project entitled-

will be fully designed/ developed by us and every part of the *project will be original work and will not be copied/ purchased from any source.*

Name of the student

Signature

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

PBL Evaluation and Assessment sheet

		Student Name / Roll no					
Sr. No.	Details	Maximum Marks					
1	Problem Identification (Idea Inception)	10					
2	Gathering)	15					
3	Proposed Solution Model/Design?process/Prototype	20					
4	Technology Solution Model	15					
5	Expected Outcomes	5					
6	Implementation and Testing	10					
7	Regularity (Attendance + Weekly Progress Reporting)	10					
8	Awareness / Consideration of Environment/ Social/ Ethics/Safety Measures/Legal Aspects	5			-		
9	Contest Participation/ publication	5					
10	Report	5					
	Total Marks	100					
	Out of	50					
Sign Of Mentor							