

# BANGALORE INSTITUTE OF TECHNOLOGY

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**2018  
SCHEME**

## Mini-Project Guidelines & Evaluation Report

Department  
of  
Electronics and Communication Engineering

**2021 - 2022**

**TITLE:**

USN	STUDENTS NAME	FINAL MARKS

**Project carried out at:**

**Name & Signature of Guide:**

These guidelines are intended to give students and faculty members at the Department of Electronics and Communication Engineering a set of procedures and expectations that will make the project evaluation process easier, more predictable, and more successful.

## MINI PROJECT

**Course Code :18ECMP68**

**CIE: 40 Marks (Report:20/Presentation:10/Viva Voce:10**

**SEE:100 Marks**

**Total Marks: CIE (40) + SEE (60) = 100**

**Hours/week :02 Hours**

**Credits: 2**

**Exam: 6<sup>th</sup> semester practical exams.**

### Preamble

These guidelines should also be interpreted as the minimum requirements of the degree awarded by Visvesvaraya Technological University, Belgaum. The Mini-Project Committee may add requirements or guidelines as they see fit – as long as there are no less demanding than the guidelines set forth in this document.

### Guides

The Guides are advised to ensure that the mini projects /suggest project titles focusing more on the current field of research and also the level of innovation. Guides are advised to check for the formatting of the presentation and project report.

### Project Topic Selection:

The topics of the mini-project work must be in the field of respective program areas or in line with CoE's (Centre of Excellence) identified by the college or List of project areas as given by industry/Faculty. The mini-projects as far as possible should have societal relevance with focus on sustainability.

### Batch Formation:

Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary Mini- project can be assigned to an individual student or to a group having not more than 4 students.

### Guidelines

Students are required to form a project team/batch before the end of 5<sup>th</sup> semester.

1. The departments must complete the Internal Guide allotment process during 5<sup>th</sup> semester.
2. The mini-project topic, title and synopsis have to be finalized and submitted to their respective internal guide during 6<sup>th</sup> semester beginning.
3. Mini-Project will be carried out in 6<sup>th</sup> semester.
4. There will be 40 marks for Continuous Internal Evaluation (**CIE**) (Report:20/Presentation skills:10/Viva-Voce:10) and 60 marks for Viva-Voce conducted during semester end examination (**SEE**). The Minimum requirement of **CIE** marks shall be 50% of the maximum marks (20 M).
5. The marks awarded for Mini-project report will be same for all batch mates.
6. **Single discipline:** The **CIE** marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.
7. **Interdisciplinary:** CIE shall be group wise at the college level with the participation of all the guides of the college.
8. **Single discipline:** Contribution to the Mini-project and the performance of each group member shall be assessed individually in the **SEE** conducted at the department.
9. **Interdisciplinary:** Contribution to the Mini-project and the performance of each group member shall be assessed individually in **SEE** conducted separately at the departments to which the student/s belong to.

10. The mini-project shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the mini-project shall be declared fail in that course and shall have to complete the same during subsequent University examinations after satisfying the Mini-project requirements. Also, mini-project shall be considered for eligibility to VII semester.
11. Each student in the team must contribute towards the successful completion of the mini-project. The mini-project may be carried out In-house / Industry / R & D Institution without affecting the regular classes.
12. In case additional facilities are required for testing etc., students are permitted to visit research labs, where such facilities are available. The HOD should be informed in advance and such cases should obtain No objection certificate/permission from the concerned authorities.

### Mini Project Evaluation:

1. One of the most important skills in which the mini-project aim is to assess the student's ability to communicate their innovative ideas and their work.
2. The students are required to meet their internal guides twice in a month to report their progress of mini-project work.
3. Monthly Activity Report (MAR) has to be maintained in the form of a diary by the mini-project batch and the same has to be discussed with the Internal Guide at regular intervals.
4. For CIE assessment the mini-project groups must present their presentation along with their final copy of the mini-project report at the end of 6th semester.
5. The presentation is also a compulsory component of the project. The project committee will not allocate a mark for a project unless there had been a formal presentation (Reviews).
6. The presentation by each group will be of 20-30 minutes and each member of the team needs to substantiate the work carried out.
7. As part of the assessment they are required to demonstrate and present of their project to Project Committee comprising of project guide & co evaluator.
8. The mini-project team is to submit hard copies of the detailed Mini-Project Report in the prescribed format released by the department and university from time to time.
9. The mini-project team is required to submit a Soft copy of a report in a CD form, to the Departmental library.
10. The Mini-Project team is required to demonstrate the functioning of the modules and the integrated application along with a presentation during the SEE in the department.

### Schedule for Project Reviews

Review	Tentative Date
Pre-Review	Within 2 Weeks from the beginning of the 6th semester
First Review	Within 8 Weeks from the beginning of the 6th semester
Final Review	Within 12 Weeks from the beginning of the 6th semester
Final Viva voce	End of Semester

The mini-project guides are advised to conduct the project reviews for the students of the program within the stipulated period and the review marks to be sent to the mini-project coordinator of the department.

## Course Learning Objectives(CLO):

1. **Knowledge Application:** Students will acquire the ability to make links across different areas of knowledge and to generate, develop and evaluate ideas and information so as to apply these skills to the project task.
2. **Communication:** Students will acquire the skills to communicate effectively and to present ideas clearly and coherently to a specific audience in both the written and oral forms.
3. **Collaboration:** Students will acquire collaborative skills through working in a team to achieve common goals.
4. **Independent Learning:** Students will be able to learn on their own, reflect on their learning and take appropriate action to improve it.
5. **Management and Finance:** Students will prepare schedules and budgets, along with the guide to keep track of the progress and expenditure.

## Course outcome:

After completion of this course the students would be able to:

**CO1:** Ability to carry-out literature review and define the problem.

**CO2:** Ability to co-ordinate to work as a team member or a single member.

**CO3:** Inculcate methods to use advance tools.

**CO4:** Design analytical modeling and develop systems.

**CO5:** Ability to equip analysis skills and interpretation.

**CO6:** Enhance presentation skills, drafting and documentation of mini-project work.

## CO PO AND PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	H	M	M			L		L	L	M	L	M	M	M	
CO2	H	M	M			L		L	L	M	L	M	M	M	
CO3	H	M	M		H			L	L	M	L	M	M	M	
CO4	H	M	M		H	L		L	L	M	L	M	M	M	
CO5	H	M	M		H	L		L	L	M	L	M	M	M	
CO6	H				H			L	L	M	M	M	M	M	

## Mini-Project Requirements:

Expectations from Students (in each Review)

Pre-Review	First Review	Final Review
<ul style="list-style-type: none"> <li>. Title</li> <li>. Abstract</li> <li>. Introduction</li> <li>. Literature Survey</li> <li>. Proposed System</li> <li>. Work Split-up among group members</li> <li>. References</li> </ul>	<ul style="list-style-type: none"> <li>. Title</li> <li>. Abstract</li> <li>. Detailed Design</li> <li>. Contribution of the candidate</li> <li>. Results obtained (intermediate)</li> <li>. References</li> <li>. 70% of work completed</li> </ul>	<ul style="list-style-type: none"> <li>. Title</li> <li>. Abstract</li> <li>. Overall Design</li> <li>. Experimental Results</li> <li>. Performance Evaluation</li> <li>. Contribution of the Candidate</li> <li>. References</li> <li>. 100% work completed – Demo</li> </ul>

**Pre-Review (5 MARKS)**

<b>Mini-Project Title:</b>						
<b>Project Team:</b>						
Si.No	USN	Students Name	Guided By			
1.	1BI EC					
2.	1BI EC					
3.	1BI EC					
4.	1BI EC					
Team Members Contribution and Performance (Each category carries 01 Marks)			Team Members			
<b>Subject Matter</b>			1	2	3	4
Understanding background and topic						
Specifies mini-Project goals and abstract						
Mini-Project Planning						
Summaries, algorithms and highlights the mini- project features						
Question and Answer						
Total						
Expectations for next Reviews						
Review One						

**Date :****Guide Signature****First-Review (5 MARKS)**

Team Members Contribution and Performance			Team Members			
<b>Subject Matter</b>			1	2	3	4
Detailed Design -2 marks						
Implementation and Results -2 marks						
Question and Answer -1 mark						
Total						
Expectations for next Reviews						
Review Two						

**Date :****Guide Signature**

**FINAL-REVIEW (30 MARKS)**

Candidate Contribution and Performance (Report:20/Presentation:05/Q&A:05)		Marks allotment			
Subject Matter		1	2	3	4
Presentation Skills					
Question and Answer					
Report Formation					
Total					
Submission of soft copy/Hard copy/PPT to the departmental in charge		Sign:			
Comments					

**Note: Attach the approved Mini-Project report to this evaluation report**

**Date :**

**Guide Signature**

Substantiate the Mini Project Strength	
Platform Used: (Mention Hardware or Software or both)	
Domain of Project:	
Tools used:	
Type of Project: ( Tick the appropriate) (For Societal needs select the appropriate: Environment, Agriculture, Health, Education)	Application based:      Interdisciplinary: Research Based:      Development: Societal Based:      Innovative:
Cost of the Project	
Is the Project IEEE Paper Based/Journals, if so provide the details(Attach a copy to his report):	
Paper published / presented if any, provide details:	

**Evaluation Report:**

USN	Name	Guide	Co-Evaluator	Pre-Review	First Review	Final Review	Total (40 Marks)
1BI EC							
1BI EC							
1BI EC							
1BI EC							

**Guide Signature**

**CO PO AND PSO MAPPING, TO BE FILLED BY STUDENTS APPROPRIATE TO THEIR PROJECT**

[illegible]

**CO PO AND PSO JUSTIFICATION, TO BE FILLED BY STUDENTS APPROPRIATE TO THEIR PROJECT**

[illegible]

## VISION OF THE DEPARTMENT

“Imparting **quality education** to achieve **Academic Excellence** in Electronics and Communication Engineering to be a **globally competent Engineer**”.

## MISSION OF THE DEPARTMENT

- Create state of art **infrastructure** for **quality education**.
- Nurture **innovative** concepts and **problem solving skills**.
- Delivering **professional** engineers to meet the **societal** needs.

## PROGRAM EDUCATIONAL OBJECTIVES

- PEO1:** Prepare graduates to be professionals, Practicing engineers and entrepreneurs in the field of Electronics and communication.
- PEO2:** To acquire sufficient knowledge base for innovative techniques in design and development of tools and systems.
- PEO3:** Capable of competing globally in multidisciplinary field.
- PEO4:** Achieve personal and professional success with awareness and commitment to ethical and social responsibilities as an individual as well as a team.
- PEO5:** Graduates will maintain and improve technical competence through continuous learning process.