Display of Vision, Mission, Course Outcomes and Program Outcomes

Institute Website

https://vit.edu.in/information-technology.html

Course Diary

COURSE DIARY

1.0 General Information

1.1 Departmental Vision, Mission, PEOs, POs, and PSOs

Vision of the Department:

To be recognized as a centre of excellence in the field of Electronics Engineering where learners are nurtured in a scholarly environment to evolve into competent professionals to benefit society.

Mission of the Department:

- Evolve a curriculum which emphasizes on strong engineering fundamentals with the flexibility to choose advanced courses of interest and gain exposure to tools and techniques in Electronics Engineering.
- Encourage a teaching-learning process in which highly competent faculty share a symbiotic association with the institutes of repute.
- Facilitate creation and dissemination of Electronics engineering knowledge through a digitally-enabled learning environment.
- Develop academic and infrastructural facilities with modern equipment and other learning resources and encourage reciprocal sharing with other institutes through networking.
- Establish a centre of excellence to enhance academia – Electronics industry partnership and work on collaborative projects for benefit of society.

Programme Educational Objectives

PEO1. To enable the students to apply Electronics Engineering knowledge to design technically sound systems, adapt to new technologies through lifelong learning and excel in their career

PEO2. To inculcate research and development ability and enable the students to analyze real life problems in diverse domains to become entrepreneurs

PEO3. To make the students understand human, social, ethical and environmental context of their profession and contribute positively to the needs of individuals and society

Programme Specific Outcomes

Professional Skills: PSO1: Ability to understand fundamentals of electronics engineering, Very Large Scale Integrated Circuits, Signal Processing, Embedded and Communication System and their application in solving real world problems.

Problem-Solving Skills PSO2: Ability to solve complex Electronics Engineering problems, using latest technology, to produce cost effective solutions.

Successful Career and Entrepreneurship PSO3: Apply knowledge of Electronics Engineering to assess societal, environmental, health and safety issues with professional ethics and work in diverse teams as an individual or a leader to manage different projects for life-long learning

COURSE DIARY

Programme Outcomes

Sr. No.	Program Outcome
PO1	**Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and engineering specialization to the solution of complex engineering problems.
PO2	**Problem Analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3	**Design/development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate considerations for the public health and safety, and the cultural, societal, and environmental considerations.
PO4	**Conduct Investigations of Complex Problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5	**Modern Tool Usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO6	**The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO7	**Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8	**Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	**Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10	**Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO11	**Project Management and Finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects in multidisciplinary environments.
PO12	**Life-long Learning:** Recognize the need for, and have the preparation and ability to engage in the independent and life-long learning in the broadest context of technological change.

Department Offices
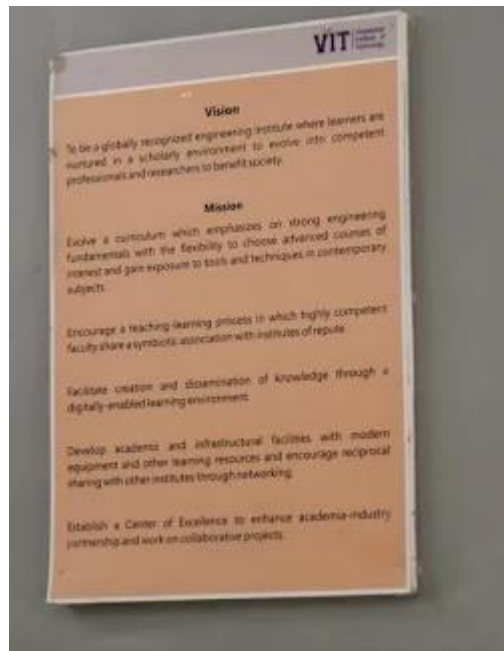
FE Department
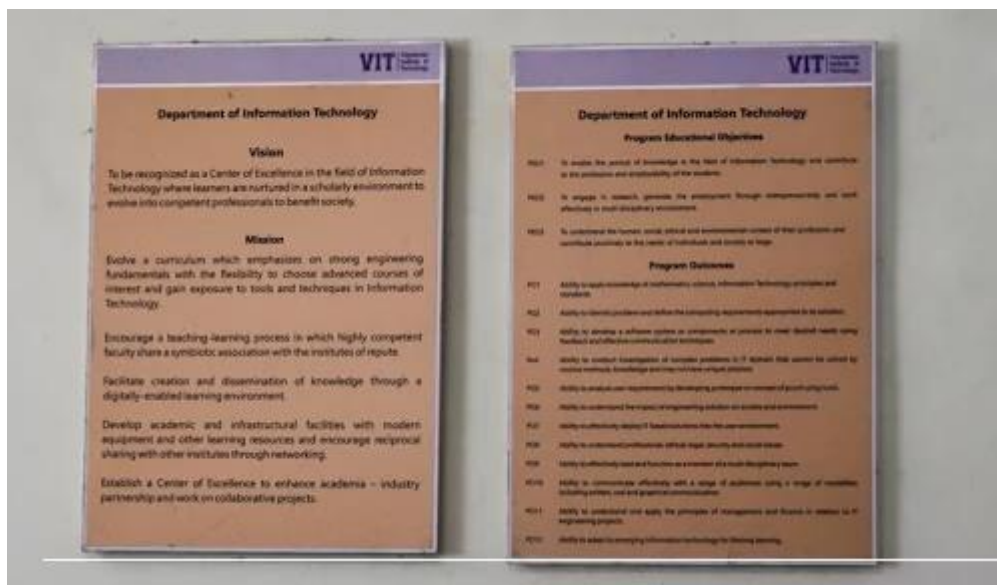
Department of Information Technology

Department of Electronics Engineering

Minutes of Program Assessment and Quality Improvement Committee (PAQIC)

Date: August 23, 2021

The meeting of PAQIC was held on 23rd August 2021 at 10:00 am in online mode on MsTeams.

Agenda for the meeting

1. Analysis of Preview and Review reports.
2. Approval and finalization of COs and their mappings to PSOs for courses of on-going semester (put forward after cluster mentor meeting).
3. Approval of activities planned by professional bodies (IEEE, EESA).
4. Relevance of Beyond Syllabus Activities with POs and PSOs.
5. Suggestions on special activities to be conducted in course.
6. Analysis of results of previous semester.
7. Analysis of CO attainment of previous semester.
8. Analysis of PO and PSO attainment of 2020-21 passing-out batch.
9. SWOC Analysis of department.
10. Any other point of discussion, as approved by the chair.

Sample of minutes of DAB meeting

Date:	Time: 1 Hr. & 15 Mints	Branch:	
Semester:	Subject:	Marks: 30	

Q. 1)	Attempt any Five (2 Marks Each)	CO	BL
a)			
b)			
c)			
d)			
e)			
f)			
g)			
h)			
Q. 2)	Attempt any two. (5 Marks Each)		
a)			
b)			
c)			
	OR (Keep only one question no 2 either of 5 marks or 10 marks)		
Q. 2)	Attempt any One (10 Marks Each)		
a)			
b)			
Q 3)	Attempt any two. (5 Marks Each)		
a)			
b)			
c)			
	OR (Keep only one question no 3 either of 5 marks or 10 marks)		
Q 3)	Attempt any One (10 Marks Each)		
a)			
b)			

CO1	
CO2	
...	

Sample of IA Question Paper