Research and Development Cell

FMTH0303-5.1

Laboratory Plan

Semester: VII   Year: 2021-2022

Laboratory Title: Institutional Research Project (IRP)	Lab. Code: 21EEEE491
Total Hours: 75hrs	Duration of exam: **2 hours**
Total Exam Marks: **100**	ISA Marks: **50**
Lab. Plan Author**: Dr. Uma Mudenagudi**	Date: 01 Aug 2021
Checked By:	Date: 04 Aug 2021

Guidelines for selection of a project:

• Researchers from the University apply for the research funding individually or in collaboration with national importance institutions to the agencies like DST, AICTE, VGST, DRDO, Agriculture Universities, industries. Faculty also apply for institutional funding to carry out research to provide an engineering solution for a societal problem.
• Once funding is confirmed, the Research and Development cell release Call For Participation (CFP) across the campus mentioning the details of all IRP/SRP/ISP.
    • Applications are scrutinized by the IRP/SRP/ISP team and an eligible team of students is allocated with the sub-module of the project.
    • Time plan: Research work worth of 60-70Hrs per team is assigned, including capacity building of individual members (80-100 Hrs) and teamwork (60-75hrs).

Criteria for group formation:

    • 3-4 students in a team.
    • Role of teammates: Team lead and members.

Allocation of Guides/ Mentors for the projects:

IRP/SRP/ISP faculty team will mentor the students' team

Role of a Guide/ Mentor

The primary responsibility of the mentor is to help students to understand the meaning and need of various stages in the implementation of the project. At every stage of the project development, a mentor should help towards its successful completion as per the predefined standards.

How student should carry out a project:

- Define the problem.
- Specify the requirements.
- Specify the design in an understandable form (Block Diagram, Flowchart,Algorithm, etc).
- Analyze the design and identify hardware and software components separately.
- Select appropriate simulation tool and development board for the design.
- Implement the design.
- Optimize the design and generate the results.
- Result representation and analysis.
- Prepare a document and presentation.

Report Writing

- The format for report writing should be downloaded from ftp://10.3.0.3/projects
- The report needs to be shown to guide and committee for each review.
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Evaluation Scheme

- Internal semester assessment (ISA)
- Evaluation is done based on the evaluation parameters and rubrics given in Table 1, and Table 2 respectively.
- The progress of the project is reviewed and evaluated by the concerned team.

Date: 04 Aug 2021   **Dean R and D**