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|  | **P.E.S. UNIVERSITY**  **Department of Electronics and Communication Engineering**  **B.Tech ECE Batch : 2019-23 :Session: Jan-May & Aug-Dec 2022** |  |

21 Feb 2022

**STUDENT CIRCULAR**

**GUIDELINES FOR CAPSTONE PROJECT WORK**

**PHASE 1 – FEASIBILITY PRESENTATION**

**Introduction**

1. Capstone Project Work shall be carried out in three phases with 2, 4 & 2 credits respectively. The team details in respect of the 101 project teams formed (for carrying out project work in the department of ECE) are given in the Appendix ‘A’ to this circular. All students are urged to check their particulars and revert for any errors in this regard. This list, however, does not include students who are carrying out projects in other departments. Such students shall be governed by the instructions given by the respective departments. But, if permission to carry out project outside the department of ECE has not been taken so far or not registered, the department presumes that such students shall be carrying out their projects during summer of 2023.

2. As a part of Phase 1, all teams will require to give a Feasibility Presentation in front of a Project Panel constituted for the purpose of assessing if the proposed project is feasible or not. Projects declared ‘Not Feasible’ are required to repeat the presentation with the changes advised by the Panel till the projects are declared ‘Feasible’.

3. Deliverables for Phase 1 by the end of April 2022 shall include Project title, Abstract, Literature Survey, Phase 1 of Modelling. Number of credits will be 2 credits.

4. Deliverables for Phase 2 by the end of Nov 2022 shall include Final Modelling, Implementation, Testing, Documentation/ Report, and **draft Journal/Conference paper in IEEE format**. Number of credits for this phase will be 4 credits.

5. Students are encouraged to publish their original capstone project work carried out thus so far till end of year 2022. Accordingly, the deliverables for Phase 3 have been worked out. Deliverables for Phase 3 by the end of April 2023 shall include one or more of the following based on which grades for Phase 3 (2-credits) shall be made:

1. Hard copy of the Journal / Conference article or proof of submission for Patent
2. Details of acceptance notification or submission details
3. Plagiarism report
4. Journal (Name, Paid/ Unpaid, I.F. etc) / Conference details (Name, dates, venue) – Indexing details (Scopus Indexed, Web of Science)

**Project Panel**

6. Project panels have been constituted based on number of factors including domain of specialization, experience, and availability. The student teams are required to present their projects as per the PPT presentation format shared herewith in this circular. The opinions, suggestions and directions given by the panel must be taken seriously and accordingly required actions must be taken by the students. Guides shall ensure the same without fail.

7. Every student will be assessed by three examiners of the panel. One examiner will be the guide of the project team. The other two examiners will be senior faculty members of the department. Assessments are specific to the individual student and not to the team. The assessments will be based on the presentation outlining the details of the project work and the proposed plan for its implementation. Marks are included for presentation and viva-voce that follows after the presentation is completed by the team. The assessment proforma is attached herewith for reference as Appendix ‘B’.

8. The following are the four attributes that will be assessed by the panel for the feasibility presentation:

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| --- | --- | --- | --- |
| **Sl No.** | **Attribute** | **Expectations** | **Marks** |
| 1 | Title | Application, Justification or Motivation for the chosen title | 10 |
| 2 | Relevance | Relevance to the current context, State-of-the-art, novelty etc. | 10 |
| 3 | Presentation | Adherence to formats, Clarity, time, coverage of details | 10 |
| 4 | Viva-Voce | Performance in Q & A session related to the presentation / topic | 10 |
| Total Marks | | | 40 |

9. **Periodic Evaluation of Projects**

The schedule of assessment of Phase 1 activities is given below:

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| --- | --- | --- |
| **Sl No.** | **Phase 1 Activities** | **Tentative Dates** |
| 1 | Feasibility Presentation | 02 March 2022 & 04 March 2022 |
| 2 | ISA | 30 March 2022 & 01 April 2022 |
| 3 | ESA | 27 Apr 2022 & 29 Apr 2022 |

The weightage for the Phase 1 (2 credits) shall be as follows:

|  |  |  |
| --- | --- | --- |
| **Sl No.** | **Phase 1 Assessments** | **Weightage as percentage of Total** |
| 1 | Feasibility Presentation | 20 % |
| 2 | ISA | 30 % |
| 3 | ESA | 50 % |

10. The presentation PPT format for the Feasibility Presentation is attached herewith as Appendix ‘C’. The essential details given therein are to be understood and adapted for projects of different kinds. Guides are to necessarily peruse the PPT before the actual Feasibility Presentation. Students are permitted to use the PPTs that have been approved by the guides (after perusal).

**Literature Review**

11. Literature Review is considered most essential part of every project work or research. This involves exploring the projects/research work already carried out in a specific area of interest. The best source of information in this regard is internet. Websites like IEEExplore, Springer, ScienceDirect etc. could provide valuable information on the content searched, as well as pointers to the location of related content.

12. The University library can be a nodal point for obtaining access to some of the authorized /restricted /limited resources/websites. Capstone Project Phase 1 will predominantly comprise of literature review.

**Publication & Posters**

13. All students are encouraged to carry out their project work with a view to publishing their contributions in reputed conferences and journals. This exercise of publishing their work will value-add their resume and give them boosted confidence in their future endeavors.

14. Each team is required to submit an A1 size poster depicting salient aspects of the project with details of the team/guide during the ESA (Phase 2).

**Project Teams**

15. Details of the project teams’ student particulars, details of guide, Project ID etc are attached herewith as Appendix ‘A’ to this circular. Teams are assigned a unique Project ID for future reference and communication. Project ID shall continue to be the same for Phase 2 & 3 also.

**Schedule of Presentation**

16. The schedule of presentation on 02 Mar 2022 (Wednesday) and 04 Mar 2022 (Friday) for all the project IDs is enclosed as Appendix ‘D’ to this circular. Students are to revert if there are any clashes or incorrect details or any other concerns.

17. Do’s and Dont’s for students with regard to feasibility presentation is given in Appendix ‘E’

**Prof. M. Rajasekar Dr Anuradha M**

Chief Project Coordinator Chairperson

Dept of ECE Dept of ECE

21 Feb 2022 21 Feb 2022

Encl : As stated.