PROJECT GUIDELINE FOR M.Tech – DATA SCIENCE PROGRAMME

These guidelines are intended to give both students and faculty members of PES and GL, a set of procedures and expectations that will make the project evaluation process easier, more predictable, and more successful. These guidelines should also be interpreted as the minimum requirements of the degree awarded by PES Bangalore with Great Learning.

The project work for M.Tech. consists of Phase – I and Phase II.

CHOICE OF PROJECT:

- The project is an important component in the degree programme. It provides an opportunity for the students to demonstrate their learning by developing models/applications.
- The students are advised to choose a project that involves a combination of sound research, technology and application.
- Interdisciplinary project proposals and innovative projects are encouraged and more appreciable.

ATTENDANCE:

- Students should definitely meet their guide atleast once every week to show progress and clarify any doubts. The same is mandatory.
- If a student is unable to join the meeting for any reason, the same has to be intimated to the mentor in advance.
- Two consecutive absenteeism is not permitted. You will be transferred to the next batch automatically unless you are able to fast forward and progress in the next meeting post approval from your guide with valid proof. The same has to be documented and share with the Program Manager for reference.

EVALUATION OF THE PROJECT

- The evaluation of Project Work for Phase I & Phase II shall be done independently in the respective semesters and marks shall be allotted as per the weightages.
- There shall be three internal assessments (review) and one final review, by a review committee, during each phase of the project for the M.Tech. programme. The student shall make a presentation on the progress made before the committee.
- The project work shall be evaluated for a maximum of 400 marks of which 240 marks will be through internal assessment and 160 marks will be through external assessment (Viva Voce).
- The Project Report prepared according to approved guidelines and duly signed by the guide(s) and the Head of the Department shall be submitted to the Head of the Institution.
- University will appoint the internal examiner and the external examiner for Phase – I and Phase – II evaluation
- If the candidate fails to obtain 50% of the internal assessment marks in the Phase–I / Phase–II, he/she will not be permitted to submit the report for that particular semester and has to re-enroll for the same in the subsequent semester.
- If a candidate fails to submit the project report on or before the specified deadline, he/she is deemed to have failed in the Project Work and shall re-enroll for the same in a subsequent semester. This applies to both Phase–I and Phase–II.
- If a candidate fails in the viva-voce examinations of Phase–I he/she has to redo the Phase–I in

the subsequent semester. If he / she fails in the viva-voce examination of Phase–II of Project work, he/she shall resubmit the Project report within 60 days from the date of viva-voce. The resubmitted project will be evaluated during the subsequent academic session.

- Final project work should be presented with a demonstration. If a company is not ready to disclose any information for project presentation, such projects cannot be considered and it is better to avoid it.

PUBLICATION

- Candidates should publish their project work in a reputed peer reviewed journal or a conference.

GENERAL POINTERS

- Once a week the student must have a discussion with the guide (online/ offline). The particulars of the meeting need to be documented for audit.
- A copy of the approved project report after the successful completion of viva examinations shall be kept in the library of the department.

Expectation from Students (in presentation)

Phase I - Research Objective 1			
Zeroth Review	**First Review**	**Second Review**	**Third Review**
*Title & Abstract *Introduction *Literature Survey *Proposed System *Timeline *References	*Title & Abstract *Architectural Design for Proposed System *Algorithms / Techniques *Expected outcomes *References *30% of code Implementation (Phase 1)	*Title & Abstract *Detailed Algo Design *Contribution of the candidate *Results obtained (intermediate) *References *80% of code Implementation (Phase1)	*Tile & Abstract *Overall Design *Experimental Results *Performance Evaluation *Model Comparison *References *100% code of implementation – Demo *Journal paper version(Draft)

Phase II - Research Objective II (Focus more on NOVELTY to improve the model and real world implementation)		
First Review	**Second Review**	**Third Review**
*Phase 1 Review *Novelty proposal *Title & Abstract *Proposed System (Phase II) *Algorithms / Techniques *Expected outcomes *References *40% of code Implementation (Phase II)	*Title & Abstract *Modified Algorithm Design *Contribution of the candidate *Results obtained (intermediate) *References *80% of code (Phase II)	*Tile & Abstract *Overall Design (Phase I and Phase II) *Experimental Results *Performance Evaluation *Comparison with Existing system *References *100% code of implementation – Demo *Journal paper publication proof