



MCKV INSTITUTE OF ENGINEERING

NAAC Accredited "A" Grade Autonomous Institute under UGC Act 1956
Approved by AICTE & affiliated to Maulana Abul Kalam Azad University of Technology, West Bengal

243 G.T. Road (N), Liluah, Howrah- 711204, West Bengal, India

Ph: +91 33 26549315/17 Fax +91 33 26549318 Web: www.mckvie.edu.in

Curriculum for Postgraduate Degree (M.Tech.) in Electronics and Communication Engineering (w.e.f. AY: 2020-21)

Part III: Detailed Curriculum

Fourth –Semester

Course Name:	Dissertation -II		
Course Code:	PW-MCE481	Category:	Project/ Sessional
Semester:	Third	Credit:	16
L-T-P:	0-0-32	Pre-Requisites:	Knowledge of Minor Project.
Full Marks:	100		
Examination Scheme:	Semester Examination: Sessional	Continuous Assessment: 25	Attendance: 05

Course Outcomes:

After completion of the course, students will be able to:

1	Ability to synthesize knowledge and skills previously gained and applied to an in-depth study and execution of new technical problem.
2	Capable to select from different methodologies, methods and forms of analysis to produce a suitable research design, and justify their design.
3	Ability to present the findings of their technical solution in a written report.
4	Presenting the work in International/ National conference or reputed journals.

Course Outcomes:

After completion of the course, students will be able to:

1	Identify the technical problems in previously reported works through literature survey
2	Apply the knowledge of communication or inter disciplinary technique in the proposed work
3	Design the proposed work by using mathematical or software tool.
4	Illustrate the proposed work through experimental results and findings

Course Outline:

The dissertation stage II is based on a report prepared by the students on dissertation allotted to them. It may be based on:

1	Experimental verification / Proof of concept.
2	Design, fabrication, testing of Communication System.
3	The viva-voce examination will be based on the above report and work.



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Guidelines for Dissertation Phase-I and Phase II

- As per the AICTE directives, the dissertation is a yearlong activity, to be carried out and evaluated in two phases i.e. Phase – I: July to December and Phase – II: January to June.
- The dissertation may be carried out preferably in-house i.e. department's laboratories and centers OR in industry allotted through department's T & P coordinator.
- After multiple interactions with guide and based on comprehensive literature survey, the student shall identify the domain and define dissertation objectives. The referred literature should preferably include IEEE/IET/IETE/Springer/Science Direct/ACM journals in the areas of Computing and Processing (Hardware and Software), Circuits Devices and Systems, Communication-Networking and Security, Robotics and Control Systems, Signal Processing and Analysis and any other related domain. In case of Industry sponsored projects, the relevant application notes, white papers, product catalogues should be referred and reported.
- Student is expected to detail out specifications, methodology, resources required, critical issues involved in design and implementation and phase wise work distribution, and submit the proposal within a month from the date of registration.
- Phase – I deliverables: A document report comprising of summary of literature survey, detailed objectives, project specifications, paper and/or computer aided design, proof of Concept/functionality, part results, A record of continuous progress.
- Phase – I evaluation: A committee comprising of guides of respective specialization shall assess the progress/performance of the student based on report, presentation and Q & A. In case of unsatisfactory performance, committee may recommend repeating the Phase-I work. During phase – II, student is expected to exert on design, development and testing of the proposed work as per the schedule. Accomplished results/contributions/innovations should be published in terms of research papers in reputed journals and reviewed focused conferences OR IP/Patents.
- Phase – II deliverables: A dissertation report as per the specified format, developed system in the form of hardware and/or software, A record of continuous progress.
- Phase – II evaluation: Guide along with appointed external examiner shall assess the progress/performance of the student based on report, presentation and Q & A. In case of unsatisfactory performance, committee may recommend for extension or repeating the work
- General guidelines for dissertation
- The thesis report must reflect the substantial novelty of an outcome-based work that gets recognized in SCI/SCOPUS journals or National/International conferences.