Detailed Syllabus
Lab-wise Breakup

Course Code	17M27EC227	**Semester ODD (specify Odd/Even)**	**Semester** 3rd **Session** 2018 -2019 **Month from** July to Dec
Course Name	Project Based Learning-III		
Credits	4	**Contact Hours**	**8**

Faculty (Names)	**Coordinator(s)**	Dr. Madhu Jain
	Teacher(s) (Alphabetically)	Dr. Gaurav Verma, Dr. Neetu Singh Ms. Ruby Beniwal, Ms. Smriti Bhatnagar

COURSE OUTCOMES		**COGNITIVE LEVELS**
CO1	Summarize the contemporary scholarly literature, activities, and explored tools/ techniques/software/hardware for hands-on in the respective project area in various domain of Embedded Systems, Signal Processing, VLSI, Communication, Artificial Intelligence and Machine Learning/Deep Learning etc.	Understanding (Level II)
CO2	Analyze/ Design the skill for obtaining the optimum solution to the formulated problem with in stipulated time	Analyzing and Designing (Level IV)
CO3	Use latest techniques and software tools for achieving the defined objectives. Evaluate /Validate sound conclusions based on evidence and analysis	Evaluating (Level V)
CO4	Demonstrate the oral and written communication skills. Describe the importance of possible future developments in the selected domain	Create Level (Level 6)

Evaluation Criteria

(i)	Each fortnightly assessment (First assessment should be at the end of 3rd week from the beginning of the semester and thereafter fortnightly assessment. A total of six assessments giving a total percentage 6 x 8 = 48%)	-	8% 48%
(ii)	Report at the end of the semester	-	10%
(iii)	Semester end presentation by the students	-	10%
(iv)	Viva-voce at the end of the semester	-	16%
(v)	Peer group evaluation (i.e. evaluation by the fellow students not belonging to the same batch)	-	8%
(vi)	Self assessment by the student concerned (can be moderated by the instructor by discussig with the student concerned)	-	8%

Detailed Syllabus
Course Outcomes

Course Code	17M17EC219/ 17M17EC220/ 17M27EC212/ 17M27EC213 & 17M17EC511/ 17M17EC512 / 17M17EC222 / 17M17EC223/ 17M27EC215/ 17M27EC216	**Semester ODD & EVEN**	**Semester** 3rd & 4th for M.Tech / 11th for Dual Degree **Session** 2018 -2019 **Month from** July to Dec/Jan to May
Course Name	Dissertation /Industrial Project		
Credits	M.Tech – 4 & 18 DD - 22	**Contact Hours**	8 & 32

Faculty (Names)	**Coordinator(s)**	Ms. Bhawna Gupta, Dr. Rachna Singh
	Teacher(s) (Alphabetically)	All faculty of ECE Deptt.

COURSE OUTCOMES		**COGNITIVE LEVELS**
CO1	Summarize the contemporary scholarly literature, activities, and explored tools/ techniques/software/hardware for hands-on in the respective project area in various domain of Electronics Engineering.	Understanding (Level II)
CO2	Gain knowledge of the State-of-Art in the chosen field of study. Analyze various feasible methods of solving a problem to slot a suitable solution methodology	Analyzing and Designing (Level IV)
CO3	Use latest techniques and software tools for achieving the defined objectives. Evaluate /Validate sound conclusions based on evidence and analysis	Evaluating (Level V)
CO4	Demonstrate the oral and written communication skills. Describe the importance of possible future developments in the selected domain	Create Level (Level VI)

Evaluation Criteria

(Dissertation at the end of third semester for M.Tech only)

Components	**Maximum Marks**
End Term Viva	60
Day to Day	40
Total	**100**

(Dissertation at the end of final semester for M.Tech / DD)

Components	**Maximum Marks**
End Term Viva	50
Special Contribution	10
Day to Day	40
Total	**100**

OR

(Industrial Project at the end of final semester for M.Tech / DD)

Components	**Maximum Marks**
End Term Viva	30
Day To Day	20 (Awarded by Internal Supervisor)
Day To Day	50 (Awarded by Supervisor from Industry)
Total	**100**

Detailed Syllabus

Course Code	17M27EC211	**Semester** Odd **(specify Odd/Even)**	**Semester** 3rd **Session** 2018-2019 **Month from** July to December
Course Name	Seminar and Term Paper		
Credits	4	**Contact Hours**	

Faculty (Names)	**Coordinator(s)**	Dr Saurabh Chaturvedi
	Teacher(s) (Alphabetically)	

COURSE OUTCOMES - At the end of the course, students will be able to:		**COGNITIVE LEVELS**
CO1	Understand relevant theories, methods and research design relating to the seminar topic selected by a student	Understanding (Level II)
CO2	Analyze the work of other authors/researchers and contribute to the field of knowledge with the cooperation of the supervisor	Analyzing (Level IV)
CO3	Evaluate the previously published research works, findings and conclusions	Evaluating (Level V)
CO4	- Develop and refine the master's dissertation topic and proposal - Develop the effective technical writing, communication and presentation skills	Creating (Level VI)

Evaluation Criteria

Components	**Maximum Marks**
Day to day work done prior to mid-term	20
Mid-term seminar/presentation	20
Day to day work done prior to end-term	20
End-term seminar/presentation	20
End-term report - Term Paper	20
Total	**100**