

M.E.(Electronics and Telecommunications- Signal Processing)

2017 Pattern

Syllabus Structure

First Year – Semester I

Sr.No.	Subject Code	Subject	Examination Scheme					Total	Credits
			Paper						
			L/P	ISA	ESA	TW	OR		
1	504401	Mathematics for Signal Processing	4	50	50	-	-	100	4
2	504402	Digital Image and Video Processing	4	50	50	-	-	100	4
3	504403	Advanced Digital Signal Processing	4	50	50	-	-	100	4
4	504404	Research Methodology	4	50	50	-	-	100	4
5	504405	Elective I	5	50	50	-	-	100	5
6	504406	Lab. Practice I	4	-	-	50	50	100	4
		Total	25	250	250	50	50	600	25

Elective I:

- 1) Advanced RISC and Digital Signal Processors
- 2) Mixed Signal Processing
- 3) Estimation and Detection Theory
- 4) Joint Time Frequency Analysis

First Year – Semester II

Sr.No.	Subject Code	Subject	Examination Scheme				Total	Credits	
			Paper						
			L/P	ISA	ESA	TW			OR
1	504407	Biomedical Signal Processing	4	50	50	-	-	100	4
2	504408	Speech Processing	4	50	50	-	-	100	4
3	504409	Computer Vision	4	50	50	-	-	100	4
4	504410	Elective II	5	50	50	-	-	100	5
5	504411	Lab. Practice II	4	--	---	50	50	100	4
6	504412	Seminar I	4	-	-	50	50	100	4
		Total	25	200	200	100	100	600	25

Elective II:

- 1) Soft Computing
- 2) Pattern Recognition
- 3) Architectures in Signal Processing
- 4) Biometrics

Second Year – Semester I

Sr. No.	Subject Code	Subject	Examination Scheme				Total		Credits
			Paper				OR		
			L/P	ISA	ESA	TW			
1	604401	Statistical Signal Processing	4	50	50	-	-	100	4
2	604402	Still Image and Video Compression	4	50	50	-	-	100	4
3	604403	Elective III*	5	50	50	-	-	100	5
4	604404	Seminar II	4	--	----	50	50	100	4
5	604405	Project Stage I	8	--	---	50	50	100	8
		Total	25	150	150	100	100	500	25

*Elective III will be combination of subjects with 3 credits and 2 credits

Elective with 3 credits

- 1) Value Education, Human rights and Legislative procedures
- 2) Environmental studies
- 3) Renewable Energy Studies
- 4) Disaster Management
- 5) Knowledge Management
- 6) Foreign Language
- 7) Economics for engineers
- 8) Engineering risk – Benefit and analysis

Elective with 2 credits

- 1) Optimization techniques
- 2) Fuzzy Mathematics
- 3) Design and Analysis of algorithms
- 4) CUDA

Second Year – Semester II

Sr.No.	Subject Code	Subject	Examination Scheme				Total		Credits
			Paper				OR		
			L/P	ISA	ESA	TW			
4	604406	Seminar III	5	--	----	50	50	100	5
5	604407	Project Stage II	20	--	---	150	50	200	20
		Total	25		--	200	100	300	25