

MVJ College of Engineering, Whitefield, Bangalore

An Autonomous Institution, Affiliated to VTU, Belagavi

Scheme of Teaching and Examination 2019-20

Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

Effective from the academic year 2019-20

Department of Electronics&Communication Engineering

I SEMESTER M.TECH- (Digital Electronics & Communication)

S No	Course		Course Title	Teaching Department	Teaching hours/week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in Hours	CIE Marks	SEE Marks	Total marks	
	L	T			P							
1	BSC	MVJ19DEC11	Applied mathematics for Electronics Engineers	MATHEMATICS	3	2	0	3	50	50	100	4
2	PCC	MVJ19DEC12	Advanced Digital Signal Processing	ECE	3	2	0	3	50	50	100	4
3	PCC	MVJ19DEC13	Advanced Communication System	ECE	3	2	0	3	50	50	100	4
4	PCC	MVJ19DEC14	Advanced Embedded System	ECE	3	2	0	3	50	50	100	4
5	PCC	MVJ19IPR15	Research Methodology and IPR	ECE	2	0	0	3	50	50	100	2
6	PCC	MVJ19DECL16	Advanced Digital Signal Processing Lab	ECE	0	2	2	3	50	50	100	2
7	PCC	MVJ19DECL17	Advanced Communication Systems Lab	ECE	0	2	2	3	50	50	100	2
Total					14	12	4	21	350	350	700	22

Note: BSC: Basic Science, PCC: Professional Core Course

II SEMESTER M.TECH- (Digital Electronics & Communication)

S No	Course		Course Title	Teaching Department	Teaching hours/week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in Hours	CIE Marks	SEE Marks	Total marks	
	L	T			P							
1	PCC	MVJ19DEC21	Advanced Communication Networks	ECE	3	2	0	3	50	50	100	4
2	PCC	MVJ19DEC22	Antenna Theory and Design	ECE	3	2	0	3	50	50	100	4
3	PCC	MVJ19DEC23	Error control and coding	ECE	3	2	0	3	50	50	100	4
4	PE	MVJ19DEC24X	Professional Elective 1	ECE	3	2	0	3	50	50	100	4
5	PE	MVJ19DEC25X	Professional Elective 2	ECE	3	2	0	3	50	50	100	4
6	PCC	MVJ19DECL26	Advanced Embedded System Lab	ECE	0	2	2	3	50	50	100	2
7	Sem	MVJ19DEC27	Technical Seminar	ECE	0	0	4	-	100	-	100	2
Total					15	12	6	18	400	300	700	24

Note: PCC: Professional Core Course, PE: Professional Elective , Sem : Seminar

S No	Professional Elective 1	Course Title	S No	Professional Elective 2	Course Title
1	MVJ19DEC241	Wireless Sensor Networks	1	MVJ19DEC251	Cryptography and Network Security
2	MVJ19DEC242	Nano electronics	2	MVJ19DEC252	Statistical Signal Processing
3	MVJ19DEC243	Micro Electro Mechanical Systems	3	MVJ19DEC253	Multimedia Over Communication links
4	MVJ19DEC244	Artificial Intelligence & Data science	4	MVJ19DEC254	Real Time Systems Design

III SEMESTER M.TECH- (Digital Electronics & Communication)

S No	Course		Course Title	Teaching Department	Teaching hours/week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in Hours	CIE Marks	SEE Marks	Total marks	
	L	T			P							
1	PCC	MVJ19DEC31	LTE 4G Broadband	ECE	3	2	0	3	50	50	100	4
2	PE	MVJ19DEC32X	Professional Elective 3	ECE	2	0	2	3	50	50	100	3
3	OE	MVJ19DEC33X	Open Elective	ECE	2	0	2	3	50	50	100	3
4	Proj	MVJ19DECP34	Minor Project	ECE	0	0	4	3	50	50	100	2
5	Proj	MVJ19DECP35	Major Project Phase-1	ECE	0	0	4	3	100	-	100	2
6	Int	MVJ19DECI36	Internship	ECE	-	-	-	3	50	50	100	7
Total					7	2	12	18	350	250	600	21

Note: PCC: Professional Core Course, PE: Professional Elective , OE :Open Elective Proj: Project Work, Int : Internship

S No	Professional Elective 3	Course Title	S No	Open Elective	Course Title
1	MVJ19DEC321	Advances in Image Processing	1	MVJ19DEC331	Robotics and Automation
2	MVJ19DEC322	Array Signal Processing	2	MVJ19DEC332	Pattern Recognition & Machine Learning
3	MVJ19DEC323	RF and Microwave Circuit	3	MVJ19DEC333	Internet of Things
4	MVJ19DEC324	Sensor Technology	4	MVJ19DEC334	Virtual and Augmented Reality

IV SEMESTER M.TECH- (Digital Electronics & Communication)

S No	Course		Course Title	Teaching Department	Teaching hours/week			Examination				Credits
	Type	Code			Theory Lecture	Tutorial	Practical/ Drawing	Duration in Hours	CIE Marks	SEE Marks	Total marks	
					L	T	P					
1	Proj	MVJ1DECP41	Major Project Phase-2	ECE	-	-	6	3	50	50	100	19
2	CRT	MVJ19ECC86	Certification	Industry/Institute	-	-	-	-	-	-	-	2
Total							6	3	50	50	100	21
Note: Proj : Project work												