

**MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY  
(AUTONOMOUS)**

**M. Tech –Systems & Signal Processing**

**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING  
M.TECH - SYSTEMS & SIGNAL PROCESSING  
COURSE STRUCTURE & SYLLABUS**

**I Year I Semester**

S.NO.	SUBJECT CODE	SUBJECT	L	T/P/D	C	MAX MARKS	
						INT	EXT
1	R17D9301	Transform Techniques	3	-	3	30	70
2	R17D9302	Multi Media Processing	3	-	3	30	70
3	R17D9303	Embedded System Design	3	-	3	30	70
4	R17D9304	Elective I	3	-	3	30	70
	R17D9305	1. Biomedical Signal Processing					
	R17D9306	2. Radar Signal Processing 3. VLSI Signal Processing					
5	R17D9307	Elective II	3	-	3	30	70
	R17D9308	1. Advanced Data Communications					
	R17D9309	2. Detection and Estimation Theory 3. Digital System Design					
6	R17DEC51	OPEN ELECTIVE –I	3	-	3	30	70
	R17DCS51	1. Embedded Systems Programming					
	R17DME51	2. Scripting Languages					
	R17DAE51	3. Non-conventional Energy Sources 4. Mathematical Modeling Techniques					
7	R17D9381	Advanced Signal Processing Lab1	-	3	2	30	70
8	R17D9382	Technical Seminar-I	-	-	2	50	-
<b>Total</b>			<b>18</b>	<b>3</b>	<b>22</b>	<b>260</b>	<b>490</b>

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**I Year II Semester**

S.NO.	SUBJECT CODE	SUBJECT	L	T/P/D	C	MAX MARKS	
						INT	EXT
1	R17D9310	Adhoc –Wireless Networks	3	-	3	30	70
2	R17D9311	Coding Theory & Techniques	3	-	3	30	70
3	R17D9312	Multi Rate Signal Processing	3	-	3	30	70
4	R17D9313	Elective III 1. Hardware-Software Co-Design 2. Embedded RTOS 3. Wireless Channel Coding	3	-	3	30	70
	R17D9314						
	R17D9315						
5	R17D9316	Elective IV 1.Mobile Computing Technologies 2. SoC Architectures 3. Array Signal Processing	3	-	3	30	70
	R17D9317						
	R17D9318						
6	R17DEC52	OPEN ELECTIVE- II 1.Internet of Things 2.Information Security 3.Industrial Management 4.Research Methodology	3	-	3	30	70
	R17DCS52						
	R17DME52						
	R17DCS53						
7	R17D9383	Advanced Signal Processing Lab 2	-	3	2	30	70
8	R17D9384	Technical Seminar-II	-	-	2	50	-
<b>Total</b>			<b>18</b>	<b>3</b>	<b>22</b>	<b>260</b>	<b>490</b>

**II Year I Semester**

S.NO.	SUBJECT CODE	SUBJECT	L	T/P/D	C	MAX MARKS	
						INT	EXT
1	R17D9385	Technical Seminar-III	-	-	2	50	-
2	R17D9391	Project Review-I	-	-	10	100	-
3	R17D9392	Project Review-II	-	-	10	100	-
<b>Total</b>			<b>-</b>	<b>-</b>	<b>22</b>	<b>-</b>	<b>-</b>

**II Year II Semester**

S.NO.	SUBJECT CODE	SUBJECT	L	T/P/D	C	MAX MARKS	
						INT	EXT
1	R17D9386	Technical Seminar-IV	-	-	2	50	-
2	R17D9393	Project Review-III	-	-	10	100	-
3	R17D9394	Project Viva-Voce	-	-	10	-	100
<b>Total</b>			<b>-</b>	<b>-</b>	<b>22</b>	<b>-</b>	<b>-</b>