MALLA REDDY TECHNICAL CAMPUS

A Constituent Unit of MALLA REDDY VISHWAVIDYAPEETH
(Deemed to be University)
Approved by UGC & AICTE,New Delhi
Maisammaguda, Medchal (Dist), Hyderabad - 500100, Telangana

MRV26 – B. Tech. Electronics and Communication Engineering(48)

Course Structure

MRV26 Course Structure - B. Tech – Electronics and Communication Engineering(48)								
Semester - I								
S.No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**S**	**Cr**
1	HMC	BT26487101	AI-Enabled Professional Communication Skills	0	1	2	0	2
2	HMC	BT2648712X	Foreign Language skills-I	0	0	2	2	2
3	HMC	BT26487103	Design Thinking for Innovation & Entrepreneurship	0	0	2	2	2
4	BSC	BT26487206	Mathematics for Computing	3	0	0	0	3
5	BSC	BT26487205	Foundations of Quantum Physics for Engineers	3	0	0	0	3
6	ESC	BT26487301	Programming for Problem Solving using C	2	0	2	2	4
7	ESC	BT26487302	Full Stack Development – I: Front-End Frameworks	2	0	2	2	4
8	ESC	BT26487303	Python Programming for the AI Era	0	1	2	0	2
9	VAC	BT264874XX	Value added course-I	1	0	0	0	1
	Credits in Semester-I			**11**	**2**	**12**	**8**	**23**
Semester - II								
S.No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**S**	**Cr**
1	HMC	BT26487102	Prompt to placement: AI powered career and Interview skills	0	1	2	0	2
2	HMC	BT2648712X	Foreign Language skills-II	0	1	2	0	2
3	BSC	BT26487207	Probability & Statistics	3	0	0	0	3
4	ESC	BT26487304	Data Structures & Algorithms - I	2	0	2	0	3
5	ESC	BT26487305	Object-Oriented Programming with Java	2	0	2	2	4
6	ESC	BT26487306	Prompt Engineering Lab	0	0	2	0	1
7	PCC	BT26487501	Electronic Devices and Circuits	2	0	2	2	4
8	PCC	BT26487502	Network Analysis	3	0	0	0	3
	Credits in Semester-II			**12**	**2**	**12**	**4**	**22**
Semester - III								
S.No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**S**	**Cr**
1	PCC	BT26487503	Electronic Circuit Analysis	3	0	2	0	4
2	PCC	BT26487504	Digital System Design	3	0	2	0	4
3	ESC	BT26487307	Data Structures & Algorithms - II	2	0	2	2	4
4	ESC	BT26487308	Full Stack Development – II: Back-End Development & APIs	2	0	2	2	4
5	PCC	BT26487505	Signals and Systems	3	0	0	0	3
6	VAC	BT264874XX	Value added course-II	1	0	0	0	1
7	SDC	BT264879XX	Skill Development - I	0	0	2	2	2
	Credits in Semester-III			**14**	**0**	**10**	**6**	**22**
Semester - IV								
S.No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**S**	**Cr**

1	**OEC**	BT264877XX	Open Elective - I	3	0	0	0	3
2	**ESC**	BT26487309	Artificial Intelligence Fundamentals	3	0	0	0	3
3	**BSC**	BT26487208	Complex Analysis, Transforms and Numerical Techniques	3	0	0	0	3
4	**PCC**	BT26487506	Linear and Digital IC Applications	3	0	2	0	4
5	**PCC**	BT26487507	Digital signal Processng	3	0	2	0	4
6	**PRJ**	BT26487801	Mini Project-I / Virtual Internship-I	0	0	0	4	2
7	**VAC**	BT264874XX	Value added course-III	1	0	0	0	1
8	**SDC**	BT264879XX	Skill Development - II	0	0	2	2	2
	Credits in Semester-IV			**16**	**0**	**6**	**6**	**22**
Semester - V								
S.No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**S**	**Cr**
1	**HMC**	BT26487104	Management Course	4	0	0	0	4
2	**BSC**	BT26487210	Career Readiness - I	0	3	0	0	3
3	**PCC**	BT26487508	Specialization Core - I	3	0	2	2	5
4	**PCC**	BT26487509	Specialization Core - II	3	0	2	0	4
5	**PEC**	BT264876XX	Professional Elective - I	3	0	0	0	3
6	**OEC**	BT264877XX	Open Elective - II	3	0	0	0	3
7	**VAC**	BT264874XX	Value added course-IV	1	0	0	0	1
8	**SDC**	BT264879XX	Skill Development - III	0	0	2	2	2
	Credits in Semester-V			**17**	**3**	**6**	**4**	**25**
Semester - VI								
S.No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**S**	**Cr**
1	**PCC**	BT26487510	Specialization Core - III	3	0	2	2	5
2	**PCC**	BT26487511	Specialization Core - IV	3	0	2	0	4
3	**PEC**	BT264876XX	Professional Elective - II	3	0	0	0	3
4	**PEC**	BT264876XX	Professional Elective - III	3	0	0	0	3
5	**OEC**	BT264877XX	Open Elective - III	3	0	0	0	3
6	**PRJ**	BT26487802	Mini Project-II/ Virtual Internship-II	0	0	0	4	2
7	**SDC**	BT264879XX	Skill Development - IV	0	0	2	2	2
	Credits in Semester-VI			**15**	**0**	**6**	**8**	**22**
Semester - VII								
S.No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**S**	**Cr**
1	**PEC**	BT264876XX	Professional Elective - IV	3	0	0	0	3
2	**PEC**	BT264876XX	Professional Elective - V	3	0	0	0	3
3	**PRJ**	BT26487803	Major Project	0	0	6	12	9
	Credits in Semester-VII			**6**	**0**	**6**	**12**	**15**
	OR (Alternate Path - Semester VII)							
S.No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**S**	**Cr**
4	**PRJ**	BT26487804	Industry Internship / Industry Project / R&D Project / Startup / Externship	0	0	0	30	15
Semester - VIII								
S.No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**S**	**Cr**
1	**PRJ**	BT26487805	Capstone Project	**0**	**0**	**10**	**20**	**15**
	OR (Alternate Path - Semester VII)							
2	**PRJ**	BT26487806	Industry Internship / Industry Project / R&D Project / Startup / Externship	0	0	0	30	15
	Credits in Semester-VIII			**0**	**0**	**0**	**30**	**15**
Total Credits - Semester I to VIII (Regular Path)								**166**

Foreign Language Skills								
S.No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**S**	**Cr**
1	**HMC**	BT26487121	German	0	0	2	2	2
2	**HMC**	BT26487122	French	0	0	2	2	2
3	**HMC**	BT26487123	Japanese	0	0	2	2	2
4	**HMC**	BT26487124	Spanish	0	0	2	2	2
5	**HMC**	BT26487125	Chinese	0	0	2	2	2
6	**HMC**	BT26487126	Korean	0	0	2	2	2
7	**HMC**	BT26487127	Russian	0	0	2	2	2
8	**HMC**	BT26487128	Sanskrit	0	0	2	2	2
Value Added Course (VAC)								
S.No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**S**	**Cr**
1	**VAC**	BT26487481	Universal Human Values	1	0	0	0	1
2	**VAC**	BT26487482	Indian Knowledge Systems	1	0	0	0	1
3	**VAC**	BT26487483	Professional Ethics	1	0	0	0	1
4	**VAC**	BT26487484	Gender Sensitization	1	0	0	0	1
5	**VAC**	BT26487485	Ecology and Environment	1	0	0	0	1
6	**VAC**	BT26487486	Constitution of India	1	0	0	0	1
7	**VAC**	BT26487487	Awareness of Sustainable Development Goals	1	0	0	0	1
8	**VAC**	BT26487488	NSS	1	0	0	0	1
9	**VAC**	BT26487489	Yoga & Wellness	1	0	0	0	1
10	**VAC**	BT26487410	Health, Hygiene & Nutrition	1	0	0	0	1
11	**VAC**	BT26487411	Disaster Awareness & Preparedness	1	0	0	0	1
12	**VAC**	BT26487412	Digital Citizenship & Cyber Awareness	1	0	0	0	1
13	**VAC**	BT26487413	Sports	1	0	0	0	1