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. Computer Science and Engineering (Data Science)

Course Structure

MRV26 Course Structure - B. Tech – CSE (DS)(42)								
Semester - I								
S.No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**S**	**Cr**
1	**HMC**	BT26427101	AI-Enabled Professional Communication Skills	0	1	2	0	2
2	**HMC**	BT2642712X	Foreign Language skills-I	0	0	2	2	2
3	**HMC**	BT26427103	Design Thinking for Innovation & Entrepreneurship	0	0	2	2	2
4	**BSC**	BT26427201	Mathematics for Computer Science	3	0	0	0	3
5	**ESC**	BT26427301	Programming for Problem Solving using C	2	0	2	2	4
6	**ESC**	BT26427302	Full Stack Development – I: Front-End Frameworks	2	0	2	2	4
7	**ESC**	BT26427303	Python Programming for the AI Era	0	1	2	0	2
8	**PCC**	BT26427501	Digital Design & Computer Organization	3	0	0	0	3
9	**VAC**	BT264274XX	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**	BT26427102	Prompt to placement: AI powered career and Interview skills	0	1	2	0	2
2	**HMC**	BT2642712X	Foreign Language skills-II	0	1	2	0	2
3	**BSC**	BT26427202	Mathematics for Artificial Intelligence	3	0	0	0	3
4	**BSC**	BT26427205	Foundations of Quantum Physics for Engineers	2	0	2	0	3
5	**ESC**	BT26427304	Data Structures & Algorithms - I	2	0	2	0	3
6	**ESC**	BT26427305	Object-Oriented Programming with Java	2	0	2	2	4
7	**ESC**	BT26427306	Prompt Engineering Lab	0	0	2	0	1
8	**PCC**	BT26427502	Database Management Systems	2	0	2	2	4
	Credits in Semester-II			**11**	**2**	**14**	**4**	**22**
Semester - III								
S.No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**S**	**Cr**
1	**BSC**	BT26427203	Discrete Mathematics & Graph Theory	3	0	0	0	3
2	**BSC**	BT26427204	Mathematics for Data Science and Analytics	3	0	0	0	3
3	**ESC**	BT26427307	Data Structures & Algorithms - II	2	0	2	2	4
4	**ESC**	BT26427308	Full Stack Development – II: Back-End Development & APIs	2	0	2	2	4
5	**PCC**	BT26427503	Operating System Concepts & Linux	3	0	2	0	4
6	**VAC**	BT264274XX	Value added course-II	1	0	0	0	1
7	**SDC**	BT264279XX	Skill Development - I	0	0	2	2	2
	Credits in Semester-III			**14**	**0**	**8**	**6**	**21**
Semester - IV								
S.No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**S**	**Cr**

1	**OEC**	BT264277XX	Open Elective - I	3	0	0	0	3
2	**ESC**	BT26427309	Artificial Intelligence Fundamentals	3	0	0	0	3
3	**ESC**	BT26427310	Data Structures & Algorithms - III	2	0	2	2	4
4	**PCC**	BT26427504	Machine Learning	2	0	2	2	4
5	**PCC**	BT26427505	Computer Networks	3	0	2	0	4
6	**PRJ**	BT26427801	Mini Project-I / Virtual Internship-I	0	0	0	4	2
7	**VAC**	BT264274XX	Value added course-III	1	0	0	0	1
8	**SDC**	BT264279XX	Skill Development - II	0	0	2	2	2
	Credits in Semester-IV			**14**	**0**	**8**	**10**	**23**
Semester - V								
S.No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**S**	**Cr**
1	**HMC**	BT26427104	Management Course	4	0	0	0	4
2	**BSC**	BT26427206	Career Readiness - I	0	3	0	0	3
3	**PCC**	BT26427506	Specialization Core - I	3	0	2	2	5
4	**PCC**	BT26427507	Specialization Core - II	3	0	2	0	4
5	**PEC**	BT264276XX	Professional Elective - I	3	0	0	0	3
6	**OEC**	BT264277XX	Open Elective - II	3	0	0	0	3
7	**VAC**	BT264274XX	Value added course-IV	1	0	0	0	1
8	**SDC**	BT264279XX	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**	BT26427508	Specialization Core - III	3	0	2	2	5
2	**PCC**	BT26427509	Specialization Core - IV	3	0	2	0	4
3	**PEC**	BT264276XX	Professional Elective - II	3	0	0	0	3
4	**PEC**	BT264276XX	Professional Elective - III	3	0	0	0	3
5	**OEC**	BT264277XX	Open Elective - III	3	0	0	0	3
6	**PRJ**	BT26427802	Mini Project-II/ Virtual Internship-II	0	0	0	4	2
7	**SDC**	BT264279XX	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**	BT264276XX	Professional Elective - IV	3	0	0	0	3
2	**PEC**	BT264276XX	Professional Elective - V	3	0	0	0	3
3	**PRJ**	BT26427803	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**	BT26427804	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**	BT26427805	Capstone Project	**0**	**0**	**10**	**20**	**15**
	OR (Alternate Path - Semester VII)							
2	**PRJ**	BT26427806	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**	BT26427121	German	0	0	2	2	2
2	**HMC**	BT26427122	French	0	0	2	2	2
3	**HMC**	BT26427123	Japanese	0	0	2	2	2
4	**HMC**	BT26427124	Spanish	0	0	2	2	2
5	**HMC**	BT26427125	Chinese	0	0	2	2	2
6	**HMC**	BT26427126	Korean	0	0	2	2	2
7	**HMC**	BT26427127	Russian	0	0	2	2	2
8	**HMC**	BT26427128	Sanskrit	0	0	2	2	2
Value Added Course (VAC)								
S.No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**S**	**Cr**
1	**VAC**	BT26427401	Universal Human Values	1	0	0	0	1
2	**VAC**	BT26427402	Indian Knowledge Systems	1	0	0	0	1
3	**VAC**	BT26427403	Professional Ethics	1	0	0	0	1
4	**VAC**	BT26427404	Gender Sensitization	1	0	0	0	1
5	**VAC**	BT26427405	Ecology and Environment	1	0	0	0	1
6	**VAC**	BT26427406	Constitution of India	1	0	0	0	1
7	**VAC**	BT26427427	Awareness of Sustainable Development Goals	1	0	0	0	1
8	**VAC**	BT26427408	NSS	1	0	0	0	1
9	**VAC**	BT26427409	Yoga & Wellness	1	0	0	0	1
10	**VAC**	BT26427410	Health, Hygiene & Nutrition	1	0	0	0	1
11	**VAC**	BT26427411	Disaster Awareness & Preparedness	1	0	0	0	1
12	**VAC**	BT26427412	Digital Citizenship & Cyber Awareness	1	0	0	0	1
13	**VAC**	BT26427413	Sports	1	0	0	0	1