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

MRV25 – B. Tech. Computer Science and Engineering (Data Science)

Course Structure

MRV25 Course Structure - B. Tech – CSE (Data Science)								
Semester – I								
S.No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**S**	**Cr**
1	**BSC**	DS25427101	Mathematics for Computing	3	0	0	0	3
2	**ESC**	DS25427102	Computer Aided Engineering Graphics	1	0	2	0	2
3	**HMC**	DS25427103	Professional Skills for Engineers	3	0	0	0	3
4	**ESC**	DS25427104	Computer Programming	4	0	2	0	5
5	**ESC**	DS25427105	Web Application Development-1	2	1	4	0	5
6	**BSC**	DS25427106	Quantitative Skills	2	1	0	0	3
7	**VAC**	DS25427107	Indian Knowledge System	0	0	2	0	0
8	**HMC**	DS25427108	Foreign Language-I (German)	1	0	0	0	0
	Credits in Semester-I			**16**	**2**	**10**	**0**	**21**
Semester - II								
S.No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**S**	**Cr**
1	**BSC**	DS25427201	Mathematics For Problem Solving	3	0	0	0	3
2	**BSC**	DS25427202	Fundamentals of Quantum Computing	2	0	0	0	2
3	**HMC**	DS25427203	Employment Communication A Lab Based Course	2	0	0	0	2
4	**ESC**	DS25427204	Data Structures	3	0	4	0	5
5	**PCC**	DS25427205	Database Management Systems	3	0	2	0	4
6	**ESC**	DS25427206	Web Application Development-II	2	1	4	0	5
7	**HMC**	DS25427207	Universal Human Values – Understanding Harmony & Ethics	1	1	0	0	2
8	**HMC**	DS25427208	Foreign Language-II (French)	1	0	0	0	0
	Credits in Semester-II			**17**	**2**	**10**	**0**	**23**
Semester - III								
S.No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**S**	**Cr**
1	**BSC**	DS25427301	Probability and Statistics	3	0	0	0	3
2	**PCC**	DS25427302	Design and Analysis of Algorithms	3	1	2	0	5
3	**HMC**	DS25427303	Advanced Communication Skills/Technical Communication For Engineers	1	0	2	0	2
4	**PCC**	DS25427304	Digital Electronics	3	0	0	0	3
5	**ESC**	DS25427305	Back End Web Technologies	3	1	2	0	5
6	**BSC**	DS25427306	Logical Reasoning and Analytical Skills	1	0	2	0	2
7	**VAC**	DS25427308	Constitution of India	1	0	0	0	0
	Credits in Semester-III			**15**	**2**	**8**	**0**	**20**
Semester - IV								
S.No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**S**	**Cr**
1	**BSC**	DS25427401	Linear Algebra and Calculus	3	0	0	0	3

2	**PCC**	DS25427402	Computer Networks	3	0	2	0	4
3	**PCC**	DS25427403	Operating Systems	3	0	2	0	4
4	**ESC**	DS254274XX	Problem-Solving Techniques Elective	2	0	4	0	4
5	**HMC**	DS25427405	Personal Branding and Employability Skills	0	1	2	0	2
6	**ESC**	DS25427406	Object-Oriented Programming with Java	2	0	2	0	3
7	**ESC**	DS254274XX	Artificial Intelligence and LLM system/ Fundamentals of AI & Data Analytics/ Artificial Intelligence	2	0	2	0	3
	Credits in Semester-IV			**15**	**1**	**14**	**0**	**23**
Semester - V								
S.No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**S**	**Cr**
1	**PCC**	DS25427501	Machine Learning	4	0	2	0	5
2	**PCC**	DS25427502	Software Engineering	3	0	2	0	4
3	**PCC**	DS25427503	Data Visualisation Tools	2	0	2	0	3
4	**PCC**	DS25427504	Production of AI Systems	3	0	2	0	4
5	**PEC**	DS254275XX	Professional Elective - I	3	0	0	0	3
6	**PEC**	DS254275XX	Professional Elective - II	3	0	0	0	3
7	**PRJ**	DS25427505	Mini Project / Virtual Internship	0	0	4	0	2
8	**VAC**	DS25427506	Environmental Science	1	0	0	0	0
	Credits in Semester-V			**19**	**0**	**12**	**0**	**24**
Semester - VI								
S.No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**S**	**Cr**
1	**PCC**	DS25427601	Cloud Computing	3	0	2	0	4
2	**PEC**	DS254276XX	Professional Elective - III	3	0	0	0	3
3	**OEC**	DS254276XX	Open Elective I	3	0	0	0	3
4	**HMC**	DS25427602	Management course	3	0	0	0	3
5	**PCC**	DS25427603	Deep Learning	3	0	4	0	5
7	**PCC**	DS25427604	Distributed Systems	3	0	2	0	4
	Credits in Semester-VI			**18**	**0**	**8**	**0**	**22**
Semester - VII								
S.No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**S**	**Cr**
1	**PEC**	DS254277XX	Professional Elective - IV	3	0	0	0	3
2	**OEC**	DS254277XX	Professional Elective - V	3	0	0	0	3
3	**OEC**	DS254277XX	Open Elective –II	3	0	0	0	3
4	**PRJ**	DS25427701	Major Project	0	0	18	0	9
	Credits in Semester-VII			**9**	**0**	**18**	**0**	**18**
	OR (Alternate Path - Semester VII)							
S.No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**S**	**Cr**
1	**OEC**	DS254277XX	Open Elective –III	3	0	0	0	3
2	**PRJ**	DS254277XX	Industry Internship / Industry Project / R&D Project / Startup / Externship	0	0	30	0	15
	Credits in Semester-VII (Alternate Path)			**3**	**0**	**30**	**0**	**18**
Semester - VIII								
S.No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**S**	**Cr**
1	**PRJ**	DS25427801	Capstone Project	0	0	30	0	15
	OR (Alternate Path - Semester VIII)							
2	**PRJ**	DS25427802	Industry Internship / Industry Project / R&D Project / Startup / Externship	0	0	30	0	15
	Credits in Semester-VIII			**0**	**0**	**30**	**0**	**15**
	Total Credits - Semester I to VIII (Regular Path)							**166**