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 (Artificial Intelligence and Machine Learning)

Course Structure

MRV26 Course Structure - B. Tech – CSE (Artificial Intelligence and Machine Learning)(41)								
Semester – I								
S.No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**S**	**Cr**
1	HMC	BT26417101	AI-Enabled Professional Communication Skills	0	1	2	0	2
2	HMC	BT2641712X	Foreign Language skills-I	0	0	2	2	2
3	HMC	BT26417103	Design Thinking for Innovation & Entrepreneurship	0	0	2	2	2
4	BSC	BT26417201	Mathematics for Computer Science	3	0	0	0	3
5	BSC	BT26417205	Foundations of Quantum Physics for Engineers	2	0	2	0	3
6	ESC	BT26417301	Programming for Problem Solving using C	2	0	2	2	4
7	ESC	BT26417302	Full Stack Development – I: Front-End Frameworks	2	0	2	2	4
8	ESC	BT26417303	Python Programming for the AI Era	0	1	2	0	2
9	VAC	BT264174XX	Value added course-I	1	0	0	0	1
	Credits in Semester-I			**10**	**2**	**14**	**8**	**23**
Semester - II								
S.No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**S**	**Cr**
1	HMC	BT26417102	Prompt to placement: AI powered career and Interview skills	0	1	2	0	2
2	HMC	BT2641712X	Foreign Language skills-II	0	0	2	2	2
3	BSC	BT26417202	Mathematics for Artificial Intelligence	3	0	0	0	3
4	ESC	BT26417304	Data Structures & Algorithms - I	2	0	2	0	3
5	ESC	BT26417305	Object-Oriented Programming with Java	2	0	2	2	4
6	ESC	BT26417306	Prompt Engineering Lab	0	0	2	0	1
7	PCC	BT26417501	Digital Design & Computer Organization	3	0	0	0	3
8	PCC	BT26417502	Database Management Systems	2	0	2	2	4
	Credits in Semester-II			**12**	**1**	**12**	**6**	**22**
Semester - III								
S.No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**S**	**Cr**
1	BSC	BT26417203	Discrete Mathematics & Graph Theory	3	0	0	0	3
2	BSC	BT26417204	Mathematics for Data Science and Analytics	3	0	0	0	3
3	ESC	BT26417307	Data Structures & Algorithms - II	2	0	2	2	4
4	ESC	BT26417308	Full Stack Development – II: Back-End Development & APIs	2	0	2	2	4
5	PCC	BT26417503	Operating System Concepts & Linux	3	0	2	0	4
6	VAC	BT264174XX	Value added course-II	1	0	0	0	1
7	SDC	BT264179XX	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	BT264177XX	Open Elective - I	3	0	0	0	3
2	ESC	BT26417309	Artificial Intelligence Fundamentals	3	0	0	0	3
3	ESC	BT26417310	Data Structures & Algorithms - III	2	0	2	2	4
4	PCC	BT26417504	Machine Learning	2	0	2	2	4
5	PCC	BT26417505	Computer Networks	3	0	2	0	4
6	PRJ	BT26417801	Mini Project-I / Virtual Internship-I	0	0	0	4	2
7	VAC	BT264174XX	Value added course-III	1	0	0	0	1
8	SDC	BT264179XX	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	BT26417104	Management Course	4	0	0	0	4
2	BSC	BT26417206	Career Readiness - I	0	3	0	0	3
3	PCC	BT26417506	Specialization Core - I	3	0	2	2	5
4	PCC	BT26417507	Specialization Core - II	3	0	2	0	4
5	PEC	BT264176XX	Professional Elective - I	3	0	0	0	3
6	OEC	BT264177XX	Open Elective - II	3	0	0	0	3
7	VAC	BT264174XX	Value added course-IV	1	0	0	0	1
8	SDC	BT264179XX	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	BT26417508	Specialization Core - III	3	0	2	2	5
2	PCC	BT26417509	Specialization Core - IV	3	0	2	0	4
3	PEC	BT264176XX	Professional Elective - II	3	0	0	0	3
4	OEC	BT264176XX	Professional Elective - III	3	0	0	0	3
5	OEC	BT264177XX	Open Elective - III	3	0	0	0	3
6	PRJ	BT26417802	Mini Project-II/ Virtual Internship-II	0	0	0	4	2
7	SDC	BT264179XX	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	BT264176XX	Professional Elective - IV	3	0	0	0	3
2	PEC	BT264176XX	Professional Elective - V	3	0	0	0	3
3	PRJ	BT26417803	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	BT26417804	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	BT26417805	Capstone Project	**0**	**0**	**10**	**20**	**15**
	OR (Alternate Path - Semester VII)							
2	PRJ	BT26417806	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**	BT26417121	German	0	0	2	2	2
2	**HMC**	BT26417122	French	0	0	2	2	2
3	**HMC**	BT26417123	Japanese	0	0	2	2	2
4	**HMC**	BT26417124	Spanish	0	0	2	2	2
5	**HMC**	BT26417125	Chinese	0	0	2	2	2
6	**HMC**	BT26417126	Korean	0	0	2	2	2
7	**HMC**	BT26417127	Russian	0	0	2	2	2
8	**HMC**	BT26417128	Sanskrit	0	0	2	2	2
Value Added Course (VAC)								
S.No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**S**	**Cr**
1	**VAC**	BT26417401	Universal Human Values	1	0	0	0	1
2	**VAC**	BT26417402	Indian Knowledge Systems	1	0	0	0	1
3	**VAC**	BT26417403	Professional Ethics	1	0	0	0	1
4	**VAC**	BT26417404	Gender Sensitization	1	0	0	0	1
5	**VAC**	BT26417405	Ecology and Environment	1	0	0	0	1
6	**VAC**	BT26417406	Constitution of India	1	0	0	0	1
7	**VAC**	BT26417417	Awareness of Sustainable Development Goals	1	0	0	0	1
8	**VAC**	BT26417408	NSS	1	0	0	0	1
9	**VAC**	BT26417409	Yoga & Wellness	1	0	0	0	1
10	**VAC**	BT26417410	Health, Hygiene & Nutrition	1	0	0	0	1
11	**VAC**	BT26417411	Disaster Awareness & Preparedness	1	0	0	0	1
12	**VAC**	BT26417412	Digital Citizenship & Cyber Awareness	1	0	0	0	1
13	**VAC**	BT26417413	Sports	1	0	0	0	1