

# SAMRAT ASHOK TECHNOLOGICAL INSTITUTE VIDISHA (M.P.) (A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV Bhopal)

### **Scheme of Examination (Semester-VI)**

### for Batch Admitted in session - 2023-24

#### Bachelor of Technology (B. Tech.) - Artificial Intelligence and Data Science

	Subject Category	Subject Name	Maximum Marks Allotted								Contact			Total
Subject Code			Theory			Practical			Total	Hrs. per week			Credits	
			ES	MS	Assignment	Quiz	ES	LW	Quiz	Marks	L	Т	P	
AI-601	DC	Machine Learning	60	20	10	10	30	10	10	150	3	0	2	4
AI-602	DC	Data Mining & Data Warehousing	60	20	10	10	30	10	10	150	3	0	2	4
AI-603	DE	DE-II	60	20	10	10				100	3	0	0	3
AI-604	DE	DE-III	60	20	10	10				100	3	1	0	4
AI-605	OE	OE-II	60	20	10	10				100	3	0	0	3
AI-606	DLC	Advanced Data Science Lab-II					30	10	10	50	0	0	2	1
AI-607		Minor Project					50	50		100			4	2
			300	100	50	50	140	80	30	750	15	`1	10	21
	ILC	Extracurricular Activities	It is a one credit per year activity endorse in eight semester mark sheet											
MST: Minimum two mid semester tests to be conducted during Semester														

Note: 1.Open Courses launched by respective Programmes are not applicable for students of parental programmes.

### 2. Subject which is being opted by IT/IOT/Others in OC-4 should not be opted as DE/DC in parent department.

# **Department Of Information Technology**

### Internship-III (120 Hrs) External /Institute Level

	DE -II	DE -III	OE – II
A	Optimization Techniques	Cryptography & Network Security	Cloud Computing
В	Knowledge Representation	Introduction to IOT	Data Science Analytics
С	Computer Vision	Robotics and process automation	Artificial Intelligence

Total 20 credits required for Honours / Minor degree

# **Department Of Information Technology**

### **Tentative pool of subjects for Minor Degree**

### SWAYAM/NPTEL/ MOOC's Course \*

#### Annexure-I

## **Minor Degree (for students of other department)**

### Admitted Batch 2022-23 & 2023-24

Sr. No.	Subjects	Duration	Link				
1.	Data Structures and Algorithms Design	12 weeks	https://onlinecourses.nptel.ac.in/noc25_cs81/preview				
2.	Data Base Management System 8 weeks https://onlinecourses.nptel.ac.in/noc		https://onlinecourses.nptel.ac.in/noc25_cs145/preview				
3.	Data Science for Engineers	For Engineers 8 weeks https://onlinecourses.nptel.ac.in/noc25					
4.	Artificial intelligence: Concepts and Techniques	12 weeks	https://onlinecourses.nptel.ac.in/noc25_cs159/preview				
5.	Introduction to Machine Learning  12 weeks  https://onlinecourses.nptel.ac.in/noc2		https://onlinecourses.nptel.ac.in/noc25_cs91/preview				
6.	Python for Data Science	4 weeks	https://onlinecourses.nptel.ac.in/noc25_cs104/preview				

# **Department Of Information Technology**

7.	Programming In Java	12 weeks	https://onlinecourses.nptel.ac.in/noc25_cs110/preview				
8.	Distributed Optimization and Machine Learning	12 weeks	https://onlinecourses.nptel.ac.in/noc25_cs86/preview				
9.	oundations of Virtual Reality 12 weeks		https://onlinecourses.nptel.ac.in/noc25_cs87/preview				

Note\*:-1.Pool of subjects for Minor degrees are subjected to change as floated by NPTEL/MOOC's/SWAYAM.

- 2. 20 credits additionally to be earned between V to VIII sem.
- 3. Students must have to provide certificate of courses opted by SWAYAM/NPTEL/ MOOC's for Minor Degree.