Madhav Institute of Technology & Science Gwalior (M.P.)
(A Govt. Aided UGC Autonomous Institute Affiliated to RGPV, Bhopal)
NAAC Accredited with A++ Grade
Centre for Artificial Intelligence
Scheme of Evaluation
B. Tech. VI Semester (Information Technology (Artificial Intelligence and Robotics))
(for batch admitted in academic session 2021 – 22)

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted									Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.
				Theory Slot				Practical Slot			MOOCs			L	T	P			
				End Term Evaluation		Continuous Evaluation		End Sem. Exam.	Continuous Evaluation		Assignment	Exam							
				End Sem. Exam.	Proficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment		Lab work & Sessional	Skill Based Mini Project									
1.	240601	DC	AI for Robotics	50	10	20	20	-	-	-	-	-	100	3	1	-	4	Blended	PP
2.	240602	DC	Image Processing	50	10	20	20	60	20	20	-	-	200	3	-	2	4	Blended	PP
3.	240603	DC	Artificial Intelligence & Machine Learning	50	10	20	20	60	20	20	-	-	200	3	-	2	4	Blended	PP
4.	DE	DE	Departmental Elective* (DE-1)	-	-	-	-	-	-	-	25	75	100	3	-	-	3	Online	MCQ
5.	OC	OC	Open Category (OC-1)	50	10	20	20	-	-	-	-	-	100	3	-	-	3	Blended	PP
6.	240604	DLC	Minor Project-II**	-	-	-	-	60	40	-	-	-	100	-	-	4	2	Offline	SO
7.	200XXX	CLC	Novel Engaging Course (Informal Learning)	-	-	-	-	50	-	-	-	-	50	-	-	2	1	Interactive	SO
	Total			200	40	80	80	230	80	40	25	75	850	15	1	10	21	-	-
8.	1000007	MAC	Intellectual Property Rights (IPR)	50	10	20	20	-	-	-	-	-	100	2	-	-	GRADE	Online	MCQ

Summer Internship-III (On Job Training) for Four weeks duration: Evaluation in VII Semester

Additional Course for Honours or minor Specialization	Permitted to opt for maximum two additional courses for the award of Honours or Minor specialization

ˢProficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject

MCQ: Multiple Choice Question   AO: Assignment + Oral   PP: Pen Paper   SO: Submission + Oral

Mode of Teaching					Mode of Examination					Total Credits
Theory			Lab	NEC	Theory			Lab	NEC	
Offline	Online	Blended	Offline	Interactive	PP	AO	MCQ	SO	SO	
-	3	13	4	1	13	-	3	4	1	21
-	14.29	61.9	19.05	4.76	61.9	-	14.29	19.05	4.76	Credits %

Madhav Institute of Technology & Science Gwalior (M.P.)
(A Govt. Aided UGC Autonomous Institute Affiliated to RGPV, Bhopal)
NAAC Accredited with A++ Grade
Centre for Artificial Intelligence

B. Tech. VI Semester *(Information Technology (Artificial Intelligence and Robotics))*

MK 03.11.2024
DEAN (ACADEMICS)
MITS
GWALIOR

DE -1*		
S. No.	**Subject Code**	**Subject Name**
1	240661	Embedded System Design With ARM
2	240662	Robotics: Basics and Selected Advanced Concepts
3	240663	Blockchain and its Applications
4	240664	Compiler Design

OC-1		
S. No.	**Subject Code**	**Subject Name**
1		Information Security
2		Data Mining & Warehousing

List of courses to be opted for Honours in VI Semester

Honours* *(to be opted by students of Parent Department)*			
Course Code	**Course Name**	**Course Code**	**Course Name**
Track 1: Information Security		**Track 2: Internet of Things**	
HAI06241	Secure Computation: Part I	HAI06243	Sensors and actuators
HAI06242	Information Security- 5 - Secure Systems Engineering	HAI06244	Microprocessors and Microcontrollers
		HAI05233	Introduction To Internet Of Things
Track 3: High Performance Computing			
HAI06245	Parallel Computer Architecture		
HAI06246	GPU Architectures and Programming		

* Course run through SWAYAM/NPTEL/ MOOC Learning Based Platform

Note: In each semester (starting from V to VIII semester), it is required to opt for new subjects towards Honours Degree/ Minor Specialization.

Madhav Institute of Technology & Science Gwalior (M.P.)
(A Govt. Aided UGC Autonomous Institute Affiliated to RGPV, Bhopal)
NAAC Accredited with A++ Grade
Centre for Artificial Intelligence
Scheme of Evaluation
B. Tech. VI Semester *(Artificial Intelligence (AI) and Data Science)*

MIO ʈ03|61|12·24
DEAN (ACADEMICS)
M.I.T.S

(for batch admitted in academic session 2021 – 22)

S. No.	Subject Code	Category Code	Subject Name	Theory Slot — End Term Evaluation — End Sem. Exam.	Theory Slot — End Term Evaluation — ᔆProficiency in subject /course	Theory Slot — Continuous Evaluation — Mid Sem. Exam.	Theory Slot — Continuous Evaluation — Quiz/ Assign ment	Practical Slot — End Sem. Exam.	Practical Slot — Continuous Evaluation — Lab work & Sessional	Practical Slot — Continuous Evaluation — Skill Based Mini Project	MOOCs — Assignment	MOOCs — Exam	Total Marks	Contact Hours per week — L	Contact Hours per week — T	Contact Hours per week — P	Total Credits	Mode of Teaching	Mode of Exam.
1.	270601	DC	Data Mining & Warehousing	50	10	20	20	60	20	20	-	-	200	2	1	2	4	Blended	PP
2.	270602	DC	Image Processing	50	10	20	20	60	20	20	-	-	200	3	-	2	4	Blended	PP
3.	270603	DC	Deep Learning	50	10	20	20	60	20	20	-	-	200	3	-	2	4	Blended	PP
4.	DE	DE	Departmental Elective* (DE-1)	-	-	-	-	-	-	-	25	75	100	3	-	-	3	Online	MCQ
5.	OC	OC	Open Category (OC-1)	50	10	20	20	-	-	-	-	-	100	3	-	-	3	Blended	PP
6.	270604	DLC	Minor Project-II**	-	-	-	-	60	40	-	-	-	100	-	-	4	2	Offline	SO
7.	200XXX	CLC	Novel Engaging Course (Informal Learning)	-	-	-	-	50	-	-	-	-	50	-	-	2	1	Interactive	SO
	Total			200	40	80	80	290	100	60	25	75	950	14	1	12	21	-	-
8.	1000007	MAC	Intellectual Property Rights (IPR)	50	10	20	20	-	-	-	-	-	100	2	-	-	GRADE	Online	MCQ

Summer Internship-III (On Job Training) for Four weeks duration: Evaluation in VII Semester

Additional Course for Honours or minor Specialization	Permitted to opt for maximum two additional courses for the award of Honours or Minor specialization

ᔆ**Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject**

MCQ: Multiple Choice Question   **AO:** Assignment + Oral   **PP:** Pen Paper   **SO:** Submission + Oral

Mode of Teaching — Theory — Offline	Mode of Teaching — Theory — Online	Mode of Teaching — Theory — Blended	Mode of Teaching — Lab — Offline	Mode of Teaching — NEC — Interactive	Mode of Examination — Theory — PP	Mode of Examination — Theory — AO	Mode of Examination — Theory — MCQ	Mode of Examination — Lab — SO	Mode of Examination — NEC — SO	Total Credits
-	3	12	5	1	12	-	3	5	1	21
-	14.29	57.14	23.81	4.76	57.14	-	14.29	23.81	4.76	Credits %

Madhav Institute of Technology & Science Gwalior (M.P.)

(A Govt. Aided UGC Autonomous Institute Affiliated to RGPV, Bhopal)

NAAC Accredited with A++ Grade

Centre for Artificial Intelligence

B. Tech. VI Semester *(Artificial Intelligence (AI) and Data Science)*

DEAN (ACADEMICS)
M.I.T.S
GWALIOR

DE -1*		
S. No.	Subject Code	Subject Name
1	270661	Data Science for Engineers
2	270662	Business Intelligence & Analytics
3	270663	Blockchain and its Applications
4	270664	Compiler Design

OC-1		
S. No.	Subject Code	Subject Name
1		Information Security
2		Data Mining & Warehousing

List of courses to be opted for Honours or Minor specialization in VI Semester

Course Code	Course Name	Course Code	Course Name
Honours* *(to be opted by students of Parent Department)*			
Track 1: Information Security		**Track 2: Internet of Things**	
HAI06241	Secure Computation: Part I	HAI06243	Sensors and actuators
HAI06242	Information Security- 5 - Secure Systems Engineering	HAI06244	Microprocessors and Microcontrollers
		HAI05233	Introduction To Internet Of Things
Track 3: High Performance Computing			
HAI06245	Parallel Computer Architecture		
HAI06246	GPU Architectures and Programming		

* Course run through SWAYAM/NPTEL/ MOOC Learning Based Platform

Note: In each semester (starting from V to VIII semester), it is required to opt for new subjects towards Honours Degree/ Minor Specialization.

Madhav Institute of Technology & Science Gwalior (M.P.)

(A Govt. Aided UGC Autonomous Institute Affiliated to RGPV, Bhopal)
NAAC Accredited with A++ Grade
Centre for Artificial Intelligence
Scheme of Evaluation
B. Tech. VI Semester *(Artificial Intelligence (AI) and Machine Learning)* M.I.T.S

(for batch admitted in academic session 2021 – 2022)

M16
To 31.112.29
DEAN (ACADEMICS)

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted									Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.
				Theory Slot				Practical Slot			MOOCs			L	T	P			
				End Term Evaluation		Continuous Evaluation		End Sem. Exam.	Continuous Evaluation		Assignment	Exam							
				End Sem. Exam.	^{S}Proficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment		Lab work & Sessional	Skill Based Mini Project									
1.	280601	DC	Data Mining & Warehousing	50	10	20	20	60	20	20	-	-	100	2	1	2	4	Blended	PP
2.	280602	DC	Image Processing	50	10	20	20	60	20	20	-	-	200	3	-	2	4	Blended	PP
3.	280603	DC	Deep Learning	50	10	20	20	60	20	20	-	-	200	3	-	2	4	Blended	PP
4.	DE	DE	Departmental Elective* (DE-1)	-	-	-	-	-	-	-	25	75	100	3	-	-	3	Online	MCQ
5.	OC	OC	Open Category (OC-1)	50	10	20	20	-	-	-	-	-	100	3	-	-	3	Blended	PP
6.	280604	DLC	Minor Project-II**	-	-	-	-	60	40	-	-	-	100	-	-	4	2	Offline	SO
7.	200XXX	CLC	Novel Engaging Course (Informal Learning)	-	-	-	-	50	-	-	-	-	50	-	-	2	1	Interactive	SO
	Total			200	40	80	80	290	100	60	25	75	950	14	1	12	21	-	-
8.	1000007	MAC	Intellectual Property Rights (IPR)	50	10	20	20	-	-	-	-	-	100	2	-	-	GRADE	Online	MCQ

Summer Internship-III (On Job Training) for Four weeks duration: Evaluation in VII Semester

Additional Course for Honours or minor Specialization	Permitted to opt for maximum two additional courses for the award of Honours or Minor specialization

^{S}Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject

MCQ: Multiple Choice Question   AO: Assignment + Oral   PP: Pen Paper   SO: Submission + Oral

Mode of Teaching					Mode of Examination					Total Credits
Theory			Lab	NEC	Theory			Lab	NEC	
Offline	Online	Blended	Offline	Interactive	PP	AO	MCQ	SO	SO	
-	3	12	5	1	12	-	3	5	1	21
-	14.29	57.14	23.81	4.76	57.14		14.29	23.81	4.76	Credits %

Madhav Institute of Technology & Science Gwalior (M.P.)
(A Govt. Aided UGC Autonomous Institute Affiliated to RGPV, Bhopal)
NAAC Accredited with A++ Grade
Centre for Artificial Intelligence
B. Tech. VI Semester *(Artificial Intelligence (AI) and Machine Learning)*

DE -1*		
S. No.	**Subject Code**	**Subject Name**
1	280661	Data Analytics with Python
2	280662	Artificial Intelligence: Knowledge Representation And Reasoning
3	280663	Blockchain and its Applications
4	280664	Compiler Design

OC-1		
S. No.	**Subject Code**	**Subject Name**
1		Information Security
2		Data Mining & Warehousing

List of courses to be opted for Honours or Minor specialization in VI Semester

Course Code	Course Name	Course Code	Course Name
Honours* *(to be opted by students of Parent Department)*			
Track 1: Information Security		**Track 2: Internet of Things**	
HAI06241	Secure Computation: Part I	HAI06243	Sensors and actuators
HAI06242	Information Security- 5 - Secure Systems Engineering	HAI06244	Microprocessors and Microcontrollers
		HAI05233	Introduction To Internet Of Things
Track 3: High Performance Computing			
HAI06245	Parallel Computer Architecture		
HAI06246	GPU Architectures and Programming		

* Course run through SWAYAM/NPTEL/ MOOC Learning Based Platform

Note: In each semester (starting from V to VIII semester), it is required to opt for new subjects towards Honours Degree/ Minor Specialization.