# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous Institute& NAAC Accredited Institute Affiliated to RGPV, Bhopal, MP)

## Department of Information Technology
## Scheme of Evaluation

### B. Tech. V Semester *(Artificial Intelligence (AI) and Machine Learning)*

| S. No. | Subject Code | Category Code | Subject Name | Theory Slot End Sem. Exam. | Theory Slot $Proficiency in subject /course | Theory Slot Mid Sem. Exam. | Theory Slot Quiz/Assignment | Practical Slot End Sem. Exam. | Practical Slot Lab work & Sessional | Practical Slot Skill Based Mini Project | Total Marks | L | T | P | Total Credits | Mode of Teaching | Mode of Exam. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | 280501 | DC | Information Retrieval | 50 | 10 | 20 | 20 | - | - | - | 100 | 2 | 1 | - | 3 | Blended | PP |
| 2. | 280502 | DC | Data Science using Python | 50 | 10 | 20 | 20 | 60 | 20 | 20 | 200 | 3 | - | 2 | 4 | Blended | MCQ |
| 3. | 280503 | DC | Theory of Computation | 50 | 10 | 20 | 20 | 60 | 20 | 20 | 200 | 2 | 1 | 2 | 4 | Blended | PP |
| 4. | 280504 | DC | Computer Graphics & Multimedia | 50 | 10 | 20 | 20 | 60 | 20 | 20 | 200 | 2 | 1 | 2 | 4 | Blended | PP |
| 5. | 280505 | DC | Soft Computing Techniques | 50 | 10 | 20 | 20 | - | - | - | 100 | 3 | - | - | 3 | Blended | PP |
| 6. | 280506 | DLC | Minor Project-I ** | - | - | - | - | 60 | 40 | - | 100 | - | - | 4 | 2 | Offline | SO |
| 7. | 280507 | Seminar/ Self-Study | Self-learning/Presentation (SWAYAM/NPTEL/ MOOC)# | - | - | - | - | - | 40 | - | 40 | - | - | 2 | 1 | Online and Mentoring | SO |
| 8. | 200XXX | CLC | Novel Engaging Course (Informal Learning) | - | - | - | - | 50 | - | - | 50 | - | - | 2 | 1 | Interactive | SO |
| 9. | 280508 | DLC | Summer Internship Project-II (Evaluation) | - | - | - | - | 60 | - | - | 60 | - | - | 4 | 2 | Offline | SO |
| | | | **Total** | 250 | 50 | 100 | 100 | 350 | 140 | 60 | 1050 | 12 | 03 | 18 | 24 | - | - |
| 10. | 1000006 | MAC | Disaster Management | 50 | 10 | 20 | 20 | - | - | - | 100 | 2 | - | - | GRADE | Online | MCQ |

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

$ proficiency in course/subject-includes the weightage towards ability/skill/competence/knowledge level/ expertise attained etc. in that particular course/subject.

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

** The minor project-I may be evaluated by an internal committee for awarding sessional marks.

#Compulsory registration for one online course using SWAYAM/NPTEL/ MOOC, evaluation through attendance, assignments and presentation

| Mode of Teaching | | | | | Mode of Examination | | | | | Total Credits |
|---|---|---|---|---|---|---|---|---|---|---|
| Theory | | | Lab | NEC | Theory | | | Lab | NEC | |
| Offline | Online | Blended | Offline | Interactive | PP | AO | MCQ | SO | SO | |
| - | - | 15 | 08 | 01 | 12 | - | 03 | 08 | 01 | 24 |
| - | - | 62.50% | 33.33% | 4.17% | 50.00% | - | 12.50% | 33.33% | 4.17% | **Credits %** |

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## Department of Information Technology

## List of courses to be opted for Minor specialization in V Semester

| Minor specialization * | |
|---|---|
| *(to be opted by students of Other Department)* | |
| **Course Code** | **Course Name** |
| AM0523M1 | Database Management System (8 Weeks) |
| AM0523M2 | Programming, Data Structures and Algorithms in Python (8 Weeks) |
| AM0523M3 | Introduction to Internet of Things (12 Weeks) |

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

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## Department of Information Technology
## Scheme of Evaluation

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

*(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 | | | | L | T | P | | | |
| | | | | End Term Evaluation | | Continuous Evaluation | | End Sem. Exam. | Continuous Evaluation | | | | | | | | |
| | | | | End Sem. Exam. | $Proficiency in subject /course | Mid Sem. Exam. | Quiz/ Assignm ent | | Lab work & Sessional | Skill Based Mini Project | | | | | | | |
| 1. | 270501 | DC | Information Retrieval | 50 | 10 | 20 | 20 | - | - | - | 100 | 2 | 1 | - | 3 | Blended | PP |
| 2. | 270502 | DC | Data Science using Python | 50 | 10 | 20 | 20 | 60 | 20 | 20 | 200 | 3 | - | 2 | 4 | Blended | MCQ |
| 3. | 270503 | DC | Theory of Computation | 50 | 10 | 20 | 20 | 60 | 20 | 20 | 200 | 2 | 1 | 2 | 4 | Blended | PP |
| 4. | 270504 | DC | Computer Graphics & Multimedia | 50 | 10 | 20 | 20 | 60 | 20 | 20 | 200 | 2 | 1 | 2 | 4 | Blended | PP |
| 5. | 270505 | DC | Soft Computing Techniques | 50 | 10 | 20 | 20 | - | - | - | 100 | 3 | - | - | 3 | Blended | PP |
| 6. | 270506 | DLC | Minor Project-I ** | - | - | - | - | 60 | 40 | - | 100 | - | - | 4 | 2 | Offline | SO |
| 7. | 270507 | Seminar/ Self-Study | Self-learning/Presentation (SWAYAM/NPTEL/ MOOC)# | - | - | - | - | - | 40 | - | 40 | - | - | 2 | 1 | Online and Mentoring | SO |
| 8. | 200XXX | **CLC** | Novel Engaging Course (Informal Learning) | - | - | - | - | 50 | - | - | 50 | - | - | 2 | 1 | Interactive | SO |
| 9. | 270508 | DLC | Summer Internship Project-II (Evaluation) | - | - | - | - | 60 | - | - | 60 | - | - | 4 | 2 | Offline | SO |
| | | | **Total** | 250 | 50 | 100 | 100 | 350 | 140 | 60 | 1050 | 12 | 03 | 18 | **24** | - | - |
| 10. | 1000006 | **MAC** | Disaster Management | 50 | 10 | 20 | 20 | - | - | - | 100 | 2 | - | - | GRADE | Online | **MCQ** |
| **Additional Course for Honours or minor Specialization** | | | | **Permitted to opt for maximum two additional courses for the award of Honours or Minor specialization** | | | | | | | | | | | | | |

$ proficiency in course/subject-includes the weightage towards ability/skill/competence/knowledge level/ expertise attained etc. in that particular course/subject.

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

** The minor project-I may be evaluated by an internal committee for awarding sessional marks.

#Compulsory registration for one online course using SWAYAM/NPTEL/ MOOC, evaluation through attendance, assignments and presentation

| Mode of Teaching | | | | | Mode of Examination | | | | | Total Credits |
|---|---|---|---|---|---|---|---|---|---|---|
| Theory | | | Lab | NEC | Theory | | | Lab | NEC | |
| Offline | Online | Blended | Offline | Interactive | PP | AO | MCQ | SO | SO | |
| - | - | 15 | 08 | 01 | 12 | - | 03 | 08 | 01 | 24 |
| - | - | 62.50% | 33.33% | 4.17% | 50.00% | - | 12.50% | 33.33% | 4.17% | **Credits %** |

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## Department of Information Technology

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| Minor specialization * *(to be opted by students of Other Department)* | |
|---|---|
| **Course Code** | **Course Name** |
| AD0523M1 | Database Management System (8 Weeks) |
| AD0523M2 | Programming, Data Structures and Algorithms in Python (8 Weeks) |
| AD0523M3 | Introduction to Internet of Things (12 Weeks) |

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

_No correction_

# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

### (A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

## Department of Information Technology
## Scheme of Evaluation
## B. Tech. in Information Technology (Artificial Intelligence and Robotics)
## V Semester

**(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 — SProficiency in subject /course | Theory Slot — Continuous Evaluation — Mid Sem. Exam. | Theory Slot — Continuous Evaluation — Quiz/ Assignment | Practical Slot — End Sem. Exam. | Practical Slot — Continuous Evaluation — Lab work & Sessional | Practical Slot — Continuous Evaluation — Skill Based Mini Project | Total Marks | L | T | P | Total Credits | Mode of Teaching | Mode of Exam. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | 240501 | BSC | Discrete Structures | 50 | 10 | 20 | 20 | - | - | - | 100 | 2 | 1 | - | 3 | Offline | PP |
| 2. | 240502 | DC | Data Science using Python | 50 | 10 | 20 | 20 | 60 | 20 | 20 | 200 | 3 | - | 2 | 4 | Blended | MCQ |
| 3. | 240503 | DC | Theory of Computation | 50 | 10 | 20 | 20 | 60 | 20 | 20 | 200 | 2 | 1 | 2 | 4 | Blended | PP |
| 4. | 240504 | DC | Robotics System and Control | 50 | 10 | 20 | 20 | 60 | 20 | 20 | 200 | 3 | - | 2 | 4 | Blended | PP |
| 5. | 240505 | DC | Soft Computing Techniques | 50 | 10 | 20 | 20 | - | - | - | 100 | 3 | - | - | 3 | Blended | PP |
| 6. | 240506 | DLC | Minor Project-I ** | - | - | - | - | 60 | 40 | - | 100 | - | - | 4 | 2 | Offline | SO |
| 7. | 240507 | Seminar/ Self-Study | Self-learning/Presentation (SWAYAM/NPTEL/ MOOC)# | - | - | - | - | - | 40 | - | 40 | - | - | 2 | 1 | Online and Mentoring | SO |
| 8. | 200XXX | CLC | Novel Engaging Course (Informal Learning) | - | - | - | - | 50 | - | - | 50 | - | - | 2 | 1 | Interactive | SO |
| 9. | 240508 | DLC | Summer Internship Project-II (Evaluation) | - | - | - | - | 60 | - | - | 60 | - | - | 4 | 2 | Offline | SO |
| | | | **Total** | 250 | 50 | 100 | 100 | 350 | 140 | 60 | 1050 | 13 | 02 | 18 | **24** | - | - |
| 10. | 1000006 | MAC | Disaster Management | 50 | 10 | 20 | 20 | - | - | - | 100 | 2 | - | - | GRADE | Online | MCQ |
| **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/competence/knowledge level/ expertise attained etc. in that particular course/subject.

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

** The minor project-I may be evaluated by an internal committee for awarding sessional marks.

# Compulsory registration for one online course using SWAYAM/NPTEL/ MOOC, evaluation through attendance, assignments and presentation

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| 03 | - | 12 | 08 | 01 | 12 | - | 03 | 08 | 01 | 24 |
| 12.50% | - | 50.00% | 33.33% | 4.17% | 50.00% | - | 12.50% | 33.33% | 4.17% | Credits % |