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ANNEXURE-XIII

Curriculum Feedback
from
various Stakeholders, its Analysis and Impact
[Information Technology (Artificial Intelligence and Robotics)/ Artificial Intelligence (AI) and Data Science/ Artificial Intelligence (AI) and Machine Learning]
(Session: July-Dec 2023)

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Analysis report of feedback on course curriculum collected from various stakeholders

S.no.	Feedback Report	Page no.
1	COURSE CURRICULLAM FEEDBACK by students (July-December 2023)	2-24
2	COURSE CURRICULLAM FEEDBACK by faculty (July-December 2023)	25-30

Analysis and impact report: July-December 2023

Based on the feedback data received from total **433** students and **18** faculty members (1st, 3rd and 5th semester of AIML, AIDS and AIR,) for the academic session Jan-June 2023, following points have been analysed:

- It has been observed that, majority of the students of AIML, AIDS and AIR (1st, 3rd and 5th Semester) are strongly agreed, some of the students are agreed and none of them have strongly disagreed with the syllabus/ content that they have studied.
- Some students have suggested the following changes in the course curriculum:
    i. Please add Data science so that it would be easier to meet current needs
    ii. Definition of various easy topics like variables, assignment operators in Problem Solving and Programming needs to be removed
    iii. Remove the Boolean algebra in Basic Electrical and Electronics Engineering and add some more topics related to basic electrical.
    iv. Course content of Digital Logic Design needs to be updated.

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COURSE CURRICULUM FEEDBACK (by Students on MOODLE)

(Responses to Student Feedback Comments)

Branch/ Semester	Subject Name	Student Feedback (Comments)		Response to student comments/ Analysis
AIR Ist Sem	Introduction to Artificial Intelligence and Robotics (3240121)	Mention the course / contents which in your opinion is outdated & needs to be removed.	Linear regression	This topic is useful in understanding the basic concept of artificial intelligence
		Is any new course required to meet current needs?	Programming	Already part of syllabus and will cover in upcoming semester
	Digital Logic Design (3240123)	Is any new course required to meet current needs?	We can modify unit 5 that is about memory	The suggestion has been forwarded to the relevant course committee for further action.
		Is any new course required to meet current needs?	• Data science is required in my opinion • Along with ongoing 5 courses there should be one which develops an extra and important skill like entrepreneurship business idea fine arts etc	Data Science is already a part of syllabus and will be covered in upcoming semester. Also the courses on management and entrepreneurship are offered from SWAYAM/NPTEL platform in further semesters.
	Basic Electrical and Electronics Engineering (3100022)	Mention the course / contents which in your opinion is outdated & needs to be removed	• It was just replica of 12 and i failed to understand how it is even relevant for us to study it when more focus should be on current world tech. • We are already learning boolean algebra and digital in digital electronics so we can add some more electrical topics on here in place of the boolean	The suggestions have been forwarded to the relevant course committee for further action.

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		Name course / contents which needs to be updated.	Instead of ac/dc/transformer we could have been taugh tech which is useful in our field and also taught how it is useful or relevant	This topic is useful in understanding the fundamental concept of electrical and electronics engineering, which are necessary for developing basic understanding of electronic devices.
AIDS Ist Sem	**Digital Logic Design (3270123)**	**Mention the course / contents which in your opinion is outdated & needs to be removed.**	• Counters and registers • Programmable devices: programmable logic array (pla), programmable array logic (pal) • Introduction to memory	The suggestions have been forwarded to the relevant course committee for further action.
		Name course / contents which needs to be updated.	• Real life designing of circuit • Sequential circuits • Analog to digital convertor • Flip flops	The suggestions have been forwarded to the relevant course committee for further action.
		Is any new course required to meet current needs?	• Understanding of finance • Python	Already part of syllabus and will cover in upcoming semesters.
AIML IstSem	**Problem Solving and Programming (3280122)**	Mention the course / contents which in your opinion is outdated & needs to be removed.	• Character array implementation of strings has no utility in present era, string functions provide much more convenience when dealing with collection of characters • Definition of various easy topics like variables, assignment operators	All these topics form the base for understanding further problem solving techniques that will be discussed in subsequent semesters/ courses.

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		Name course / contents which needs to be updated.	• Ide must be changed to something newer, as turbo is very old and has alot of limitations as far as dynamic initialization is concerned • C++ language	The syllabus only mentions IDE, which means all the available IDEs should be discussed, and not only turbo C++.
		Is any new course required to meet current needs?	• Python • Vectors (qualitative) should be included.	Already part of syllabus and will cover in upcoming semester.

Branch/ Semester	Subject Name	Student Feedback (Comments)		Response to student comments/ Analysis
AIR 3rd Sem	Computer Network and Protocols (2240321)	Mention the course / contents which in your opinion is outdated & needs to be removed.	Topology	Already part of syllabus and will cover in upcoming semester.
AIML 3rd Sem	Discrete Structures (2280321)	Mention the course / contents which in your opinion is outdated & needs to be removed.	Sets & functions	These contents are necessary for understanding other topics of the course.
		Name course / contents which needs to be updated.	Group theory	Already part of syllabus of linear algebra course in I semester
		Is any new course required to meet current needs?	Induction and combinatorics	The suggestions have been forwarded to the relevant course committee for further action.
	Discrete Structures (2270321)	Mention the course / contents which in your opinion is outdated & needs to be removed.	Sets	These contents are necessary for understanding other topics of the course.
		Name course / contents which needs to be updated.	Group theory	Already part of syllabus of linear algebra course in I semester

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AIDS 3rd Sem		Is any new course required to meet current needs?	Induction and combinatorics	The suggestions have been forwarded to the relevant course committee for further action.
		(i) Honours:	Python & data structures	Already part of syllabus
		(ii) Minor specialisation:	Graph theory & combinatorics	Graph theory is already part of the programming syllabus.
		(III) Departmental electives:	Introduction to formal languages and automata theory , introduction to algorithms	Already present in the curriculum of next semesters
	Internet of Things (2270325)	**Name course / contents which needs to be updated.**	Cloud computing	Already part of curriculum in semester iv
		Honours:	Python with data structures	Being an important subject, it is taught as one of the departmental core subjects.
AIR 5th Sem	**Data Science using python (240502)**	Is any new course required to meet current needs?	Data mining	Already part of syllabus and will cover in upcoming semester.
	Robotic System and control (240504)	**Name course / contents which needs to be updated.**	• Types of robots and actuators • I think the inverse kinematics part can be modified	After a discussion with the members of course committee, the course has been updated as per the student suggestions.
		i) Honours:	Cyber security and ethical hacking	Already part of syllabus and will cover in upcoming semesters
AIML 5th Sem	**Theory of Computation (280503)**	**Mention the course / contents which in your opinion is outdated & needs to be removed.**	The methods to solve various conversion and minimization methods	The concept is necessary and cannot be removed.

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Course-wise Analysis of Curriculum Feedback by Students for

Artificial intelligence and Robotics

(Average value of responses (on a scale of 1 to 5) 5:Strongly Agree, 4:Agree, 3:Neutral, 2:Disagree, 1:Strongly disagree)

AIR Ist Semester							
Subject code/name (no. of student attempted feedback)	1 .The course is well designed	2. The units are balanced	3. The learning material was available to you	4. The content was clear and easy to understand	5.The course was relevant and updated for present needs	6.The course meets your career expectations	7. The course will be useful to meet your higher studies/future aspirations.
Introduction to Artificial Intelligence and Robotics/3240121 (45)	4.02	3.89	4.04	4.02	4.04	3.91	4.00
Problem Solving and Programming/3240122 (27)	4.14	4.29	4.19	4.19	4.00	4.19	4.24
Digital Logic Design /3240123 (52)	3.85	3.81	4.04	3.75	3.96	3.67	3.79
Basic Electrical and Electronics Engineering /3100022(50)	4.32	4.28	4.46	4.22	4.2	4.2	4.1

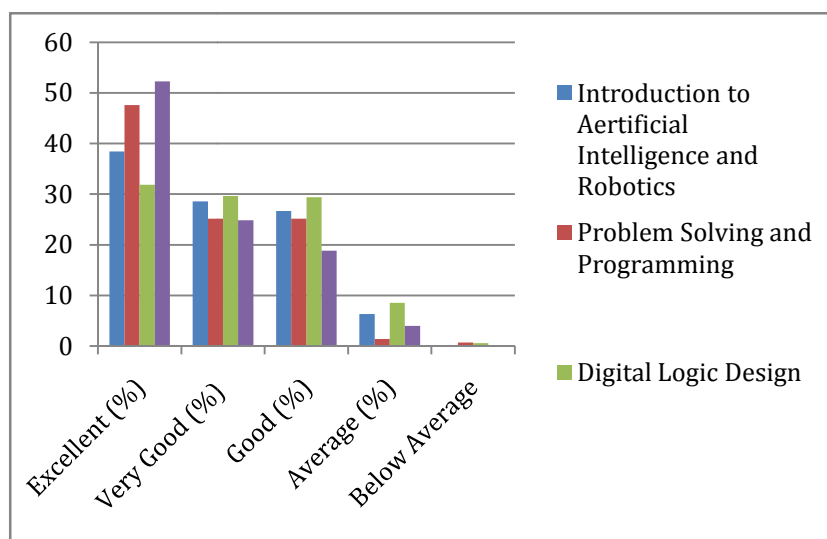**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**
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AIR Ist Semester								
Parameter(Average Grading)				**Excellent (%)**	**Very Good (%)**	**Good (%)**	**Average (%)**	**Below Average (%)**
Subject Code	**Subject Name**	**Semester**	**Faculty Name**					
(3240121)	**Introduction to Artificial Intelligence and Robotics**	1	Dr. Vibha Tiwari	38.41	28.57	26.67	6.35	0.00
(3240122)	**Problem Solving and Programming**	1	Dr. Arun kumar	47.62	25.17	25.17	1.36	0.68
(3240123)	**Digital Logic Design**	1	Dr Tej Singh	31.87	29.67	29.40	8.52	0.55
(3100022)	**Basic Electrical and Electronics Engineering**	1	Dr. Neelam Arya	52.29	24.85	18.85	4.00	0.00

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Subject code/name(no. of student attempted feedback)	1 .The course is well designed	2. The units are balanced	3. The learning material was available to you	4. The content was clear and easy to understand	5.The course was relevant and updated for present needs	6.The course meets your career expectations	7. The course will be useful to meet your higher studies/future aspirations.
AIR 3rd Semester							
Computer Network and Protocols /2240321 (50)	4.22	4.2	4.32	4.26	4.32	4.2	4.18
Design and Analysis of Algorithms 2240322/ (20)	4.9	5	4.77	5	1.5	2	2
Computer Graphics & Multimedia 2240323/ (23)	4.21	4.21	4.04	4.13	4.13	4.21	4.26
Operating System 2240324/(28)	4.6	4.4	4	4.4	4.4	4.2	4

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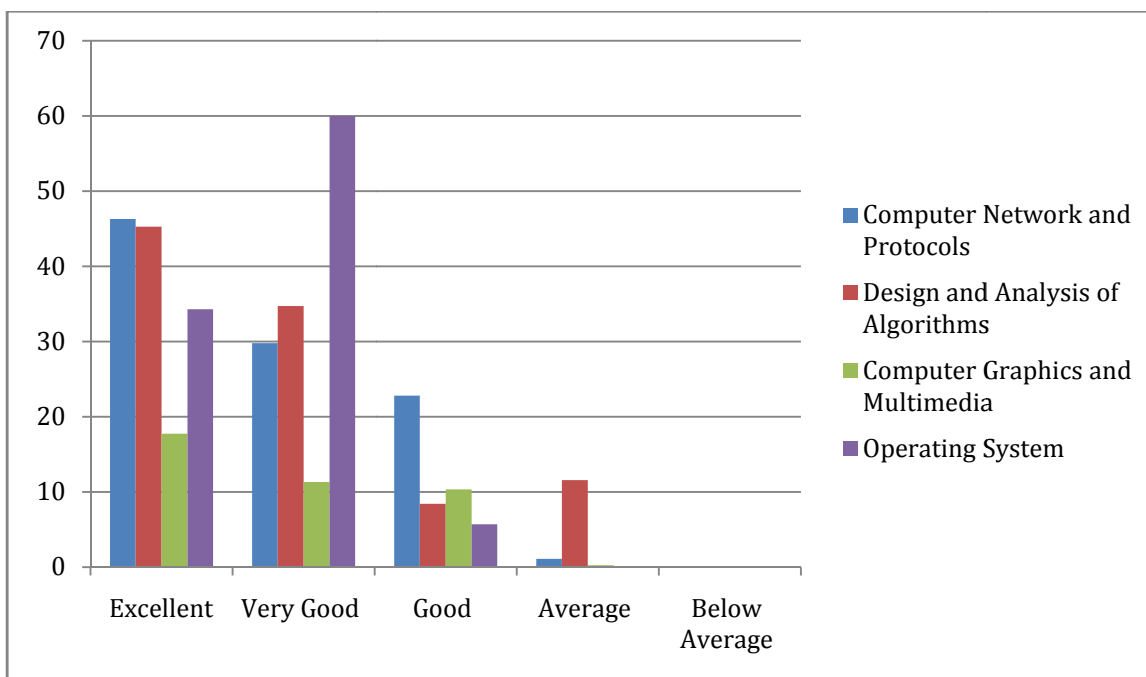**Deemed to be University**
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AIR 3rd Semester								
Parameter(Average Grading)				Excellent (%)	Very Good (%)	Good (%)	Average (%)	Below Average (%)
Subject Code	Subject Name	Semester	Faculty Name					
2240321	Computer Network and Protocols	III	Ms. Shubha Mishra	46.3	29.8	22.8	1.1	0
2240322	Design and Analysis of Algorithms	III	Mr. Ramnaresh Sharma	45.26	34.74	8.42	11.58	0.00
2240323	Computer Graphics & Multimedia	III	Ms. Nitya Thagele	17.73	11.33	10.34	0.25	0.00
2240324	Operating System	III	Dr. R. R. Singh	34.29	60	5.71	0	0

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AIR 5th Semester							
Subject code/name (no. of student attempted feedback)	1 .The course is well designed	2. The units are balanced	3. The learning material was available to you	4. The content was clear and easy to understand	5.The course was relevant and updated for present needs	6.The course meets your career expectations	7. The course will be useful to meet your higher studies/fut ure aspirations .
Robotics System and Control /240504 (53)	3.94	3.90	3.90	3.94	3.92	3.84	3.94
Data Science using Python 240502/ (25)	4.52	4.64	4.64	4.56	4.6	4.68	4.6
Theory of Computati on 240503/ (24)	4.33	4.00	4.08	4.00	4.08	4.00	4.00
Disaster Managem ent (1000006) (30)	4.32	4.28	4.46	4.22	4.2	4.2	4.1

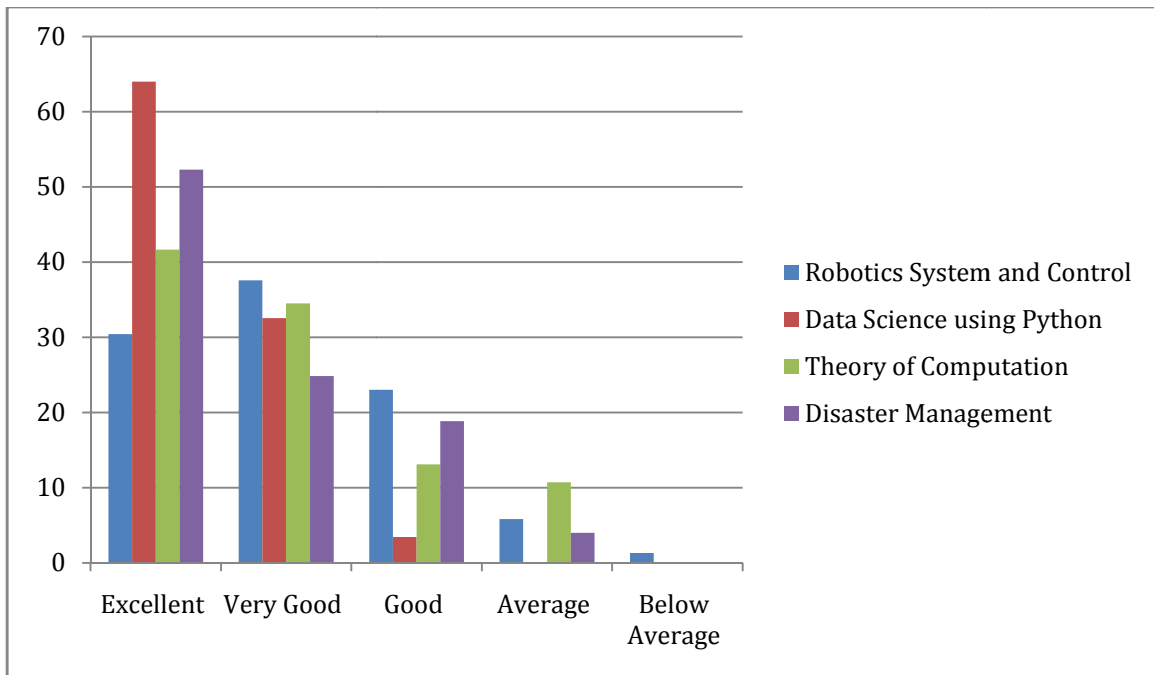**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**
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AIR 5th Semester							
Parameter(Average Grading)				Excellent (%)	Very Good (%)	Good (%)	Average (%)	Below Average (%)
Subject Code	Subject Name	Semester	Faculty Name					
(240504)	Robotics System and Control	5	Dr. Pawan Dubey	30.42	37.57	23.02	5.82	1.32
(240502)	Data Science using Python	5	Dr. Sunil Kumar Shukla	64	32.57	3.43	0	0
(240503)	Theory of Computation	5	Ms. Deepti Gupta	41.67	34.52	13.10	10.71	0.00
(1000006)	Disaster Management	5	Ms. Geetika Hazra	52.28	24.85	18.85	4	0

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Course-wise Analysis of Curriculum Feedback by Students for

Artificial intelligence and Data Science

(Average value of responses (on a scale of 1 to 5) 5:Strongly Agree, 4:Agree, 3:Neutral, 2:Disagree, 1:Strongly disagree)

AIDS Ist Semester							
Subject code/name (no. of student attempted feedback)	1 .The course is well designed	2. The units are balanced	3. The learning material was available to you	4. The content was clear and easy to understand	5.The course was relevant and updated for present needs	6.The course meets your career expectations	7. The course will be useful to meet your higher studies/future aspirations.
Introduction to artificial Intelligence and Data Science 3270121/ (29)	4.17	4.13	4.10	4	4.44	4.10	4.17
Digital Logic Design /3270123 (54)	3.75	3.68	3.75	3.66	3.59	3.53	3.53

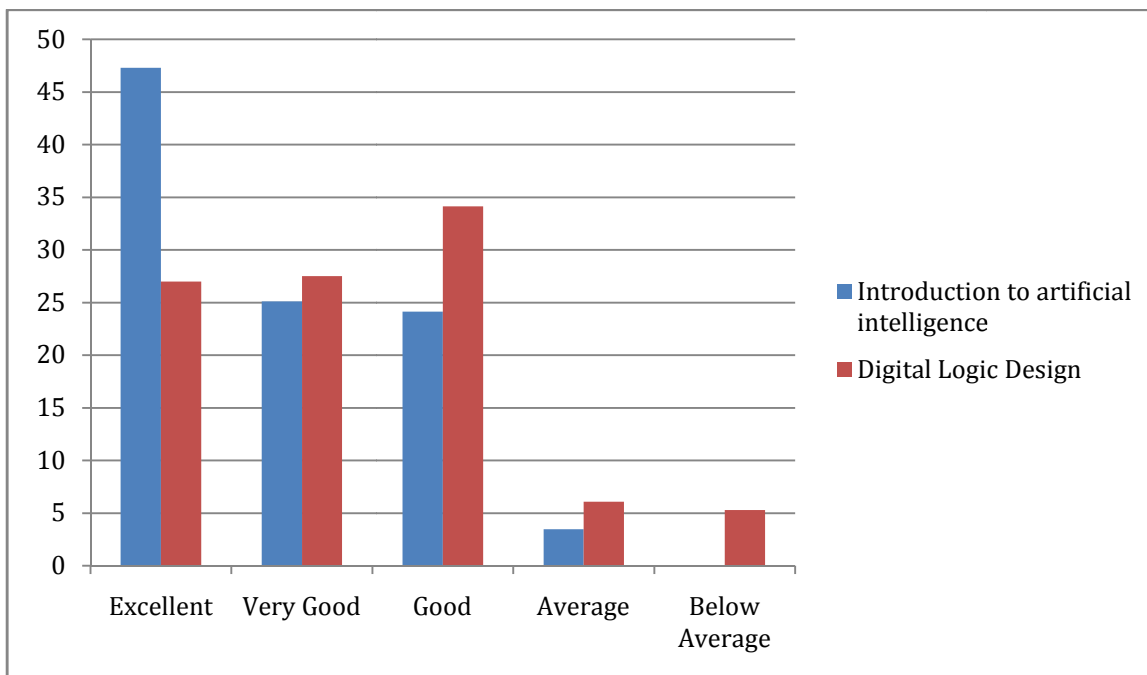**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**
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AIDS Ist Semester								
Parameter(Average Grading)				Excellent (%)	Very Good (%)	Good (%)	Average (%)	Below Average (%)
Subject Code	Subject Name	Semester	Faculty Name					
3270121	Introduction to artificial Intelligence and Data Science	I	Dr. Bhagat Singh Raghuwanshi	47.29	25.12	24.14	3.45	0.00
3270123	Digital Logic Design	I	Dr. Kritika Bansal	26.98	27.51	34.13	6.08	5.29

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AIDS 3rd sem							
Subject code/name(no. of student attempted feedback)	1 .The course is well designed	2. The units are balanced	3. The learning material was available to you	4. The content was clear and easy to understand	5.The course was relevant and updated for present needs	6.The course meets your career expectations	7. The course will be useful to meet your higher studies/future aspirations.
Discrete Structures /2270321 (43)	4.39	4.25	4.27	4.37	4.37	4.37	4.32
Design and Analysis of Algorithms 2270323/ (25)	4.28	4.08	4.24	4.2	4.2	4.2	4.28
Computer Graphics & Multimedia 2270324/(23)	4.02	4.08	4.19	4.64	4.08	4.02	4.13
Internet of Things /2270325 (48)	4.02	4.08	4.10	4.08	4.10	4.02	4

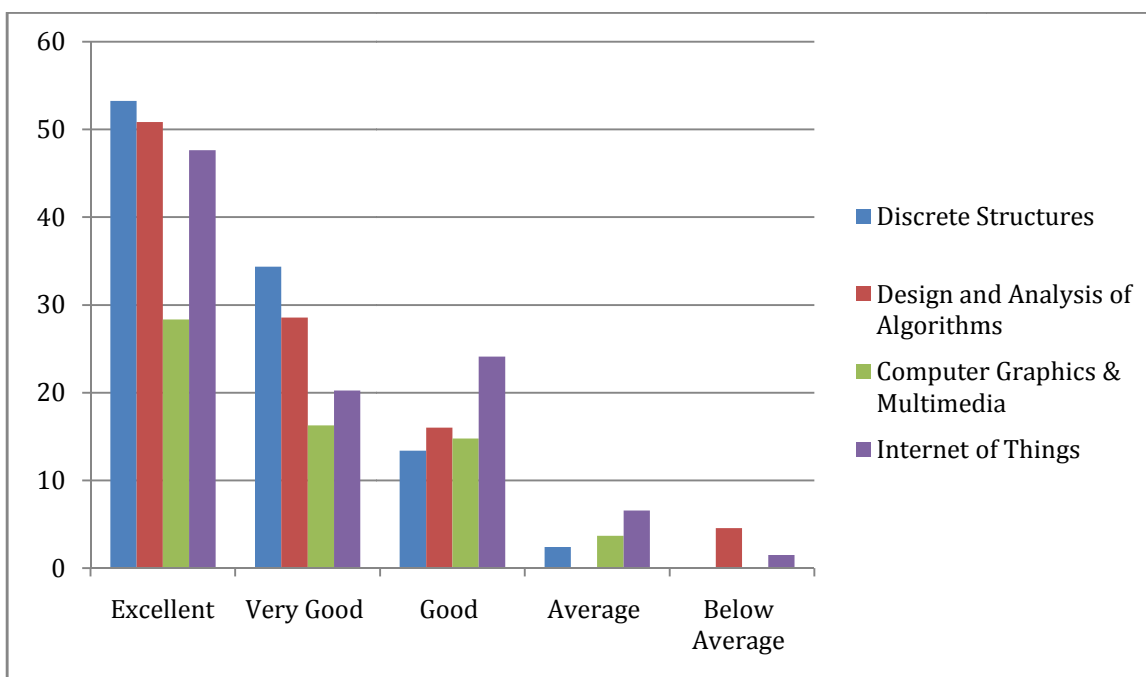**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**
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AIDS 3rd Semester								
Parameter(Average Grading)				**Excellent (%)**	**Very Good (%)**	**Good (%)**	**Average (%)**	**Below Average (%)**
Subject Code	**Subject Name**	**Semester**	**Faculty Name**					
2270321	**Discrete Structures**	III	Dr. Neelam Arya	53.26	34.36	13.40	2.41	0.00
2270323	**Design and Analysis of Algorithms**	III	Mr. Ramnaresh Sharma	50.86	28.57	16.00	0.00	4.57
2270324	**Computer Graphics & Multimedia**	III	Ms. Nitya Thagele	28.33	16.26	14.78	3.69	0.00
2270325	**Internet of Things**	III	Dr. Kritika Bansal	47.62	20.24	24.11	6.55	1.49

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AIDS 5th Semester							
Subject code/name (no. of student attempted feedback)	1 .The course is well designed	2. The units are balanced	3. The learning material was available to you	4. The content was clear and easy to understand	5.The course was relevant and updated for present needs	6.The course meets your career expectations	7. The course will be useful to meet your higher studies/future aspirations.
Computer Graphics & Multimedia /270504 (32)	4.31	4.31	4.31	4.31	4.28	4.31	4.40
Data Science using Python 270502 (25)	4.75	4.75	3.75	3.75	3.75	3.75	4.75
Theory of Computation /270503 (24)	3.58	3.50	3.54	3.63	3.58	3.50	3.54
Information Retrieval (270501) (31)	5	5	0	4.75	4.76	4.75	0
Disaster Management /1000006 (25)	4.32	4.28	4.46	4.22	4.2	4.2	4.1

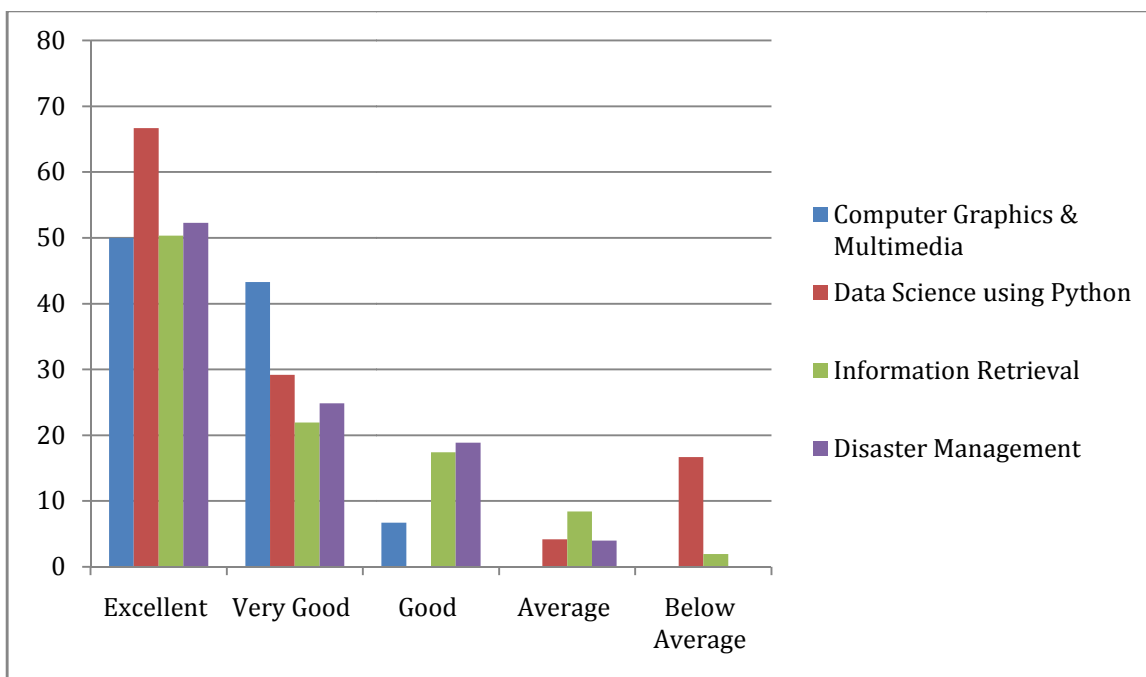**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**
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AIDS 5th Semester							
Parameter(Average Grading)				Excellent (%)	Very Good (%)	Good (%)	Average (%)	Below Average (%)
Subject Code	Subject Name	Semester	Faculty Name					
(270504)	Computer Graphics & Multimedia	5	Ms. Shubha Mishra	50	43.3	6.7	0	0
(270502)	Data Science using Python	5	Mr. Arun Kumar	66.67	29.17	0	4.17	16.67
(270503)	Theory of Computation	5	Ms. Deepti Gupta	32.74	25.00	20.83	7.74	13.69
(270501)	Information Retrieval	5	Mr. Ravi Kumar Jain	50.32	21.94	17.42	8.39	1.94
(1000006)	Disaster Management	5	Ms. Geetika Hazra	52.28	24.85	18.85	4	0

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Course-wise Analysis of Curriculum Feedback by Students for

Artificial intelligence and Machine Learning

(Average value of responses (on a scale of 1 to 5) 5:Strongly Agree, 4:Agree, 3:Neutral, 2:Disagree, 1:Strongly disagree)

AIML Ist Semester							
Subject code/name(no. of student attempted feedback)	1 .The course is well designed	2. The units are balanced	3. The learning material was available to you	4. The content was clear and easy to understand	5.The course was relevant and updated for present needs	6.The course meets your career expectations	7. The course will be useful to meet your higher studies/future aspirations.
Introduction to artificial Intelligence and Machine Learning /3280121 (34)	3.58	3.82	3.91	3.91	3.91	3.58	3.82
Problem Solving and Programming 3280122/ (51)	3.84	3.84	3.96	3.98	3.86	3.88	3.90
Basic Electrical and Electronics Engineering/ 3100022 (25)	3.83	3.83	4.00	4.00	4.00	3.50	3.67

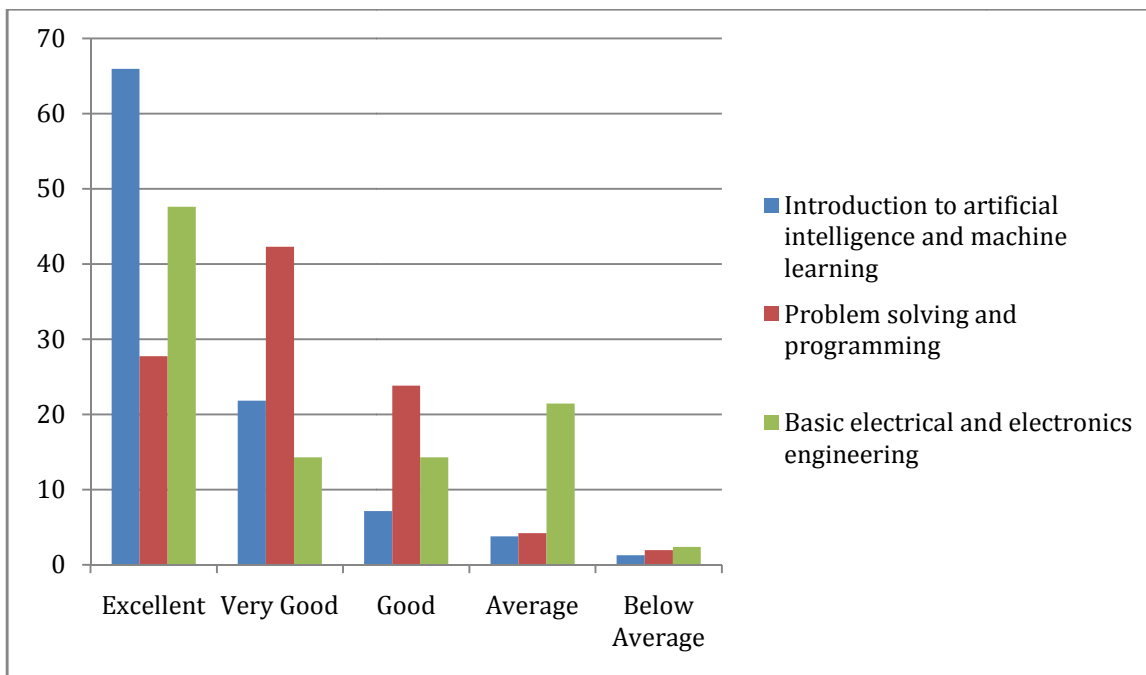**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**
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AIML Ist Semester							
Parameter(Average Grading)				Excellent (%)	Very Good (%)	Good (%)	Average (%)	Below Average (%)
Subject Code	Subject Name	Semester	Faculty Name					
(3280121)	Introduction to artificial Intelligence and Machine Learning	I	Dr. Vibha Tiwari	65.97	21.85	7.14	3.78	1.26
(3280122)	Problem Solving and Programming	1	Mr. Mir Shahnawaz Ahmad	27.73	42.30	23.81	4.20	1.96
(3100022)	Basic Electrical and Electronics Engineering	I	Dr. Sunil Shukla	47.62	14.29	14.29	21.43	2.38

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AIML 3rd Semester							
Subject code/name(no. of student attempted feedback)	1 .The course is well designed	2. The units are balanced	3. The learning material was available to you	4. The content was clear and easy to understand	5.The course was relevant and updated for present needs	6.The course meets your career expectations	7. The course will be useful to meet your higher studies/future aspirations.
Discrete Structures /2280321 (34)	4.02	4.17	4.20	4.17	4.17	4.17	4.26
Computer Network and Protocols (2280322 (62)	4.16	4.16	4.19	4.08	4.06	4.12	4.08
Design and Analysis of Algorithms /2280323 (41)	4.51	4.53	4.51	4.53	4.53	4.53	4.60
Computer Graphics & Multimedia /2280324 (25)	4.33	4.27	4.2	4.2	4.2	0.00	0.00
Internet of Things /2280325 (63)	4.06	4.06	4.19	4.17	4.22	4.11	4.15
Project Management and Financing /1000005 (29)	4.19	4.19	4.15	4.23	4.19	4.15	4.36

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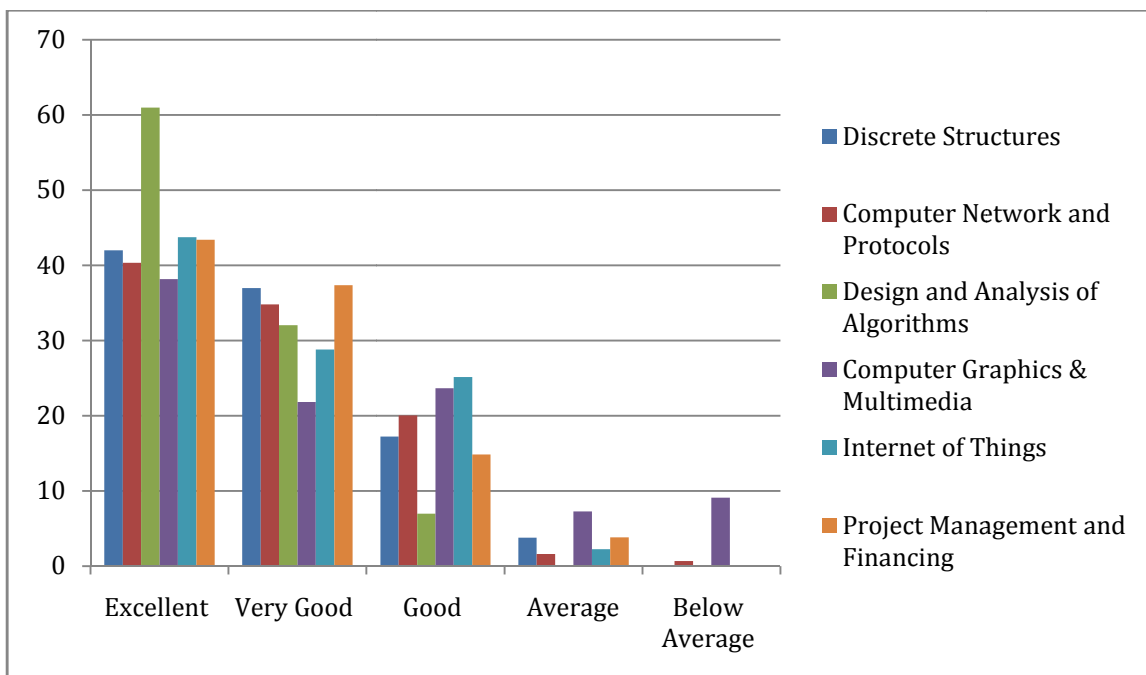**Deemed to be University**
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AIML 3rd Semester								
Parameter(Average Grading)				**Excellent (%)**	**Very Good (%)**	**Good (%)**	**Average (%)**	**Below Average (%)**
Subject Code	**Subject Name**	**Semester**	**Faculty Name**					
2280321	**Discrete Structures**	III	Dr. Neelam Arya	42.02	36.97	17.23	3.78	0.00
2280322	**Computer Network and Protocols**	III	Dr. Vibha Tiwari	40.32	34.79	20.05	1.61	0.69
2280323	**Design and Analysis of Algorithms**	III	Mr. Mir Shahnawaz Ahmad	60.98	32.06	6.97	0.00	0.00
2280324	**Computer Graphics & Multimedia**	III	Mr. Ravi Kumar Jain	38.18	21.82	23.64	7.27	9.09
2280325	**Internet of Things**	III	Dr. Tej Singh	43.76	28.80	25.17	2.27	0.00
1000005	**Project Management and Financing**	III	Dr. Bhagat S. Raghuwanshi	43.41	37.36	14.84	3.85	0.00

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AIML 5th Semester							
Subject code/name (no. of student attempted feedback)	1 .The course is well designed	2. The units are balanced	3. The learning material was available to you	4. The content was clear and easy to understand	5.The course was relevant and updated for present needs	6.The course meets your career expectations	7. The course will be useful to meet your higher studies/future aspirations.
Data Science using Python /280502 (29)	4.03	3.93	4.03	4	4.31	4.10	4.17
Theory of Computation /280503 (25)	2.94	3.17	2.83	2.83	2.78	2.72	2.78
Soft Computing Techniques 280505 (24)	4.3	4.2	4.1	4	4.2	4.3	4.4
Computer Graphics & Multimedia /280504 (25)	5	5	5	5	5	5	
Disaster Management (1000006) (30)	4.32	4.28	4.46	4.22	4.2	4.2	

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
Deemed to be University
(Declared under Distinct Category by Ministry of Education, Government of India)
NAAC Accredited with A++ Grade

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AIML 5th Semester							
Parameter(Average Grading)				Excellent (%)	Very Good (%)	Good (%)	Average (%)	Below Average (%)
Subject Code	Subject Name	Semester	Faculty Name					
(280502)	Data Science using Python	5	Dr. Bhagat S. Raghuwanshi	44.83	23.15	27.59	4.43	0.00
(280503)	Theory of Computation	5	Ms. Deepti Gupta	11.90	24.60	19.84	25.40	11.90
(280504)	Computer Graphics & Multimedia	5	Mr. Ravi Kumar Jain	28.57	40.00	28.57	2.86	0.00
(280505)	Soft Computing Techniques	5	Ms. Nitya Thagele	35.06	41.56	12.99	1.30	0.00
(1000006)	Disaster Management	5	Ms. Geetika Hazra	52.28	24.85	18.85	4	0