

Madhav Institute of Technology & Science Gwalior
A Govt. Aided UGC Autonomous, Affiliated to RGPV, Bhopal
NAAC Accredited with A++

Department : Computer Science & Engineering

Year 2022-2023

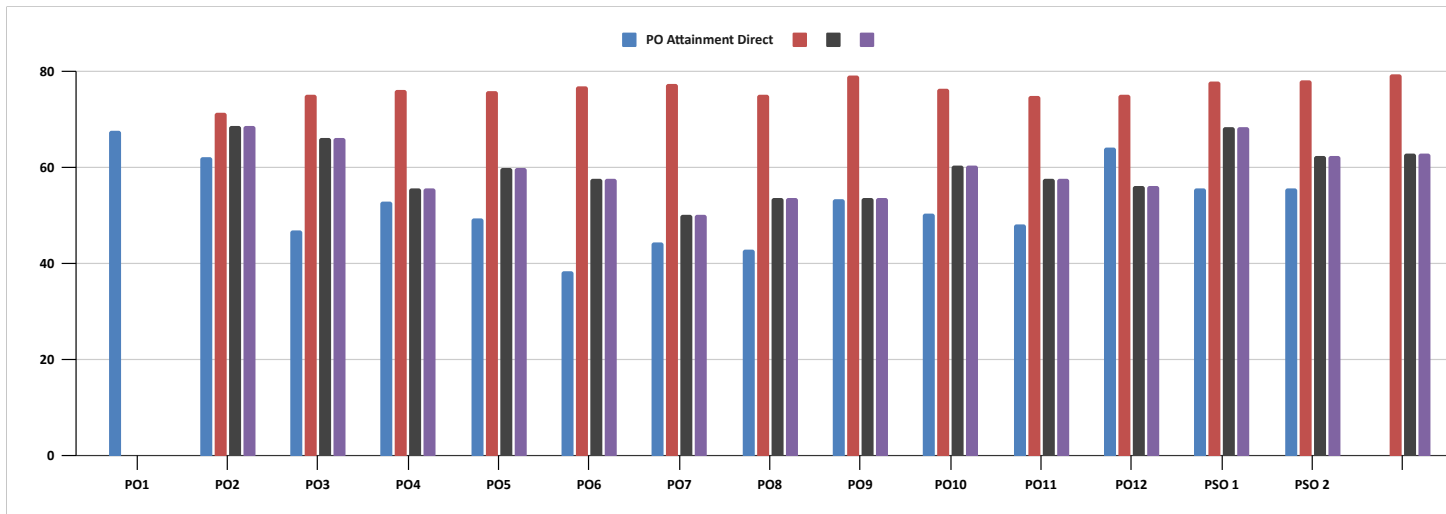
S.No.	Course Code & Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
1	Computer System Organization -150223	55.40	46.30	42.40	44.90	32.00	56.50	51.90	84.80	54.10	56.40	55.20	65.80	48.90	33.10
2	150302: Data Structures	79.20	69.71	51.11	64.86	52.74	37.39		41.86	60.12	52.74	49.13	65.12	60.84	74.46
3	Computer Graphics-150224	56.65	72.01	41.50	74.78	28.39	86.43	38.58	64.60	79.30	61.45	84.84	80.48	65.79	26.90
4	Data structures-290221	78.39	66.91	50.10	67.25		38.70	55.51	25.98	55.90	89.25	48.55	78.29	61.09	83.85
5	150302: Data Structure LAB	70.05	65.54	48.01	64.00	49.22	34.70	52.88	38.78	56.56	38.63	46.07	65.48	60.59	74.59
6	150303: Computer Graphics LAB	69.55	65.40	43.40	45.88	53.21	30.86	58.07	38.27	56.59	54.00	44.97	65.17	60.91	65.02
7	Computer System Organization-290223	74.00	59.99	51.00	56.09	41.57	41.69	56.31	42.00	54.85	68.80	49.03	74.05	59.56	69.75
8	Computer Graphics and Animation-290224	66.07	50.13	50.36	41.84	42.03	35.22	52.93	40.20	46.49	37.47	34.64	59.71	50.71	54.02
9	150312-Operating Systems	70.87	70.82	57.58	52.91	39.77	53.14	39.67	33.27	48.70	65.98	46.32	61.94	57.58	70.76
10	150314-Design & Analysis of Algorithms	61.81	53.04	45.03	51.41	65.17	26.33	45.61	43.96	45.25	39.13	25.77	53.23	45.20	26.16
11	290303-Operating Systems	57.31	62.31	53.22	58.93	44.89	35.56	42.45	39.23	57.66	54.18	45.95	54.04	70.79	66.64
12	290302-Design & Analysis of Algorithms	58.42	53.04	45.03	51.41	65.17	26.33	45.61	43.96	45.25	39.13	25.77	53.23	45.20	26.16
13	290301-Discrete structure	63.66	37.79	41.35	41.47	46.20		45.32	46.20		45.32	48.22	46.20	31.22	30.30
14	150313 -Computer Graphics-LAB	64.05	55.42	35.52	56.07	47.04	35.88	42.75	38.02	51.71	59.45	42.18	67.76	55.74	67.76
15	150314-Design & Analysis of Algorithms-LAB	59.69	64.53	50.27	49.76		43.21	43.34	49.39	55.68	52.77	48.79	63.76	54.04	59.27
16	290306-Digital Circuit Design Lab	70.82	61.69	45.20	58.60		37.19	54.12	39.56	49.72	76.24	43.65	74.59	53.86	74.59
17	290302-Design & Analysis of Algorithms-LAB	63.47	58.60	39.17	47.42	31.00	28.98	54.09	37.05	50.81	58.67	42.15	59.50	55.21	59.43
18	Computer Networks-150411	62.12	61.80	42.74	40.20	45.48	33.42	53.46	36.20	57.05	45.48	55.97	57.07	56.90	57.22
19	Database Management System-150412	71.94	55.66	54.27	48.21	37.65	62.24	57.79	68.49	55.65	55.85	55.39	82.81	49.39	33.08
20	Software Engineering-150413	72.82	68.08	45.34	48.29	65.93	36.45	59.60	41.70	59.02	65.93	55.16	68.08	63.31	63.70
21	Theory of Computation-150414	64.28	60.32	40.25	42.11	48.09	28.97	54.21	36.19	52.27	48.13	42.33	60.39	56.36	60.28
22	Computer Networks-290402	69.74	60.56	43.28	53.27	38.56	31.30	58.55	39.14	56.22	67.07	45.86	65.59	60.82	65.16
23	Database Management System-290402	81.41	42.89	54.95	49.90	54.74	27.36	36.60	41.91	56.52	53.76	39.61	43.98	54.06	34.45
24	Software Engineering-290403	71.69	54.07	46.05	50.01	54.88	25.21	24.58	31.47	40.41	43.92	44.14	63.51	45.92	50.43
25	Theory of Computation-290404	70.97	65.57	43.44	59.39	61.51	31.79	52.80	33.35	46.54	39.47	48.16	66.16	57.14	48.82
26	Web Technology-290401	76.29	60.18	43.54	54.44	28.52	32.43	61.12	40.65	54.77	80.95	47.08	70.29	59.66	70.90
27	150511 -Data Science	66.87	58.77	39.17	46.57	68.40	28.45	53.75	29.12	42.86	39.27	41.07	58.71	51.07	62.91
28	150512-Networking with TCP/IP	68.42	55.92	56.36	51.83	35.50	47.47	24.03	24.11	31.79	23.53	46.48	43.91	47.88	48.28
29	150513-Information Security	65.14	65.30	41.04	48.49	48.93	29.41	24.57	28.50	53.31	24.37	42.87	61.02	57.14	36.66
30	150514-Compiler Design	74.41	70.80	57.25	70.36	64.57	44.07	26.91	36.93	48.29	30.47	51.54	70.34	53.21	61.66
31	150515-Artificial Intelligence	72.94	72.94	53.82	54.81	42.82	29.06	23.85	32.54	48.63	36.28	43.43	63.36	68.15	58.17
32	Cloud Computing & Virtualization-150611	65.87	55.09	52.14	56.99	55.06	23.78	23.55	27.82	34.14	33.20	33.20	65.87	47.27	57.60
33	Digital Image Processing-150612	57.11	55.83	33.82	47.01	55.06	66.71	66.70	41.35	43.73	71.22	36.78	57.92	45.73	56.78
34	Machine Learning-150613	56.60	82.80	55.20	55.20	82.80	27.60	27.60	82.80	55.20	27.60	55.20	82.80	55.20	55.20
35	150711-Networking with TCP/IP	64.52	64.47	39.97	49.00	46.73	29.03	24.42	28.08	51.85	24.31	42.13	60.43	56.11	36.32
36	150712-Data mining & Warehousing	69.32	69.32	43.46	51.89	51.75	31.32	26.07	30.33	56.42	25.93	45.74	65.06	60.73	38.98
37	100008-Intellectual Property Rights	69.36	56.03	54.32	59.47	56.43	24.77	24.80	29.52	34.56	34.69	34.69	69.36	49.49	59.60
38	Internship/ Project	69.42	78.07	51.16	55.13	74.34	27.81	39.65	67.27	60.46	60.22	55.13	73.75	55.62	64.92
39	150302: Data Structures Lab	76.16	66.96	49.12	64.43	50.38	35.63	27.07	39.39	57.77	50.38	46.82	60.61	59.20	69.53
40	Computer Graphics Lab-150224	54.14	67.53	39.00	69.90	26.94	80.17	36.12	60.45	71.56	53.56	79.45	74.96	61.88	26.66
41	Data structures Lab-290221	75.78	66.56	48.80	64.36	50.20	35.39	55.32	39.62	57.49	50.20	46.67	60.04	58.97	68.85
42	Python Programming Lab-290222	70.09	61.70	45.37	59.48	47.34	32.71	24.78	35.97	53.30	47.34	43.67	55.94	54.31	66.22

43	Python Programming Lab -150222	69.10	61.08	44.72	55.71	36.50	32.80	24.87	36.05	52.65	47.34	42.10	57.67	53.46	64.25
44	150314-Design & Analysis of Algorithms-LAB	59.69	64.53	50.27	49.76		43.21	43.34	49.39	55.68	52.77	48.79	63.76	54.04	59.27
45	Computer Networks Lab-150411	67.61	67.12	46.46	44.02	48.67	36.51	57.84	39.92	61.87	48.67	61.80	62.49	61.93	62.42
46	Database Management System Lab-150412	69.47	54.70	56.50	45.89	27.48	64.38	54.45	69.08	55.73	27.74	55.30	83.21	46.14	27.86
47	Web Technology Lab-290401	72.65	65.79	45.91	44.19		39.67	61.00	40.24	59.34		61.76	65.87	59.22	66.03
48	150516-Minor Project	65.53	65.23	45.37	40.76	58.18	35.52	57.15	49.62	60.41	65.58	56.18	60.69	60.92	60.71
49	150701-Departmental Lab	62.45	62.44	43.08	40.56	56.16	33.77	53.18	48.71	57.61	63.53	54.22	58.03	57.68	57.83
50	150703-Creative Problem Solving	72.47	72.54	49.74	47.93	66.76	39.02	61.00	56.39	66.98	74.41	63.18	66.89	66.50	66.91

Madhav Institute of Technology & Science Gwalior
A Govt. Aided UGC Autonomous, Affiliated to RGPV, Bhopal
NAAC Accredited with A++

Department : Computer Science & Engineering Year 2022-2023

Column1	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
PO Attainment Direct	67.52	62.08	46.92	52.94	49.44	38.28	44.49	42.79	53.44	50.26	48.06	64.18	55.65	55.61
PO Attainment Indirect	71.27	75.21	76.06	75.77	76.90	77.46	75.21	79.15	76.34	74.93	75.21	77.75	78.03	79.44
PO Attainment	68.64	66.02	55.66	59.79	57.68	50.03	53.70	53.70	60.31	57.66	56.21	68.25	62.37	62.76



Madhav Institute of Technology & Science Gwalior
A Govt. Aided UGC Autonomous, Affiliated to RGPV, Bhopal
NAAC Accredited with A++

DEPARTMENT OF CSE

Summary of Program Outcomes (2019-23 Batch)

Target (%):	55		
POs	PO Attainment (%)	Attained/ Not Attained	Action taken for not attained
PO1: Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems	68.64	Attained	-
PO2: Problem Analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.	66.02	Attained	-
PO3: Design/Development of Solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.	55.66	Attained	
PO4: Conduct Investigations of Complex Problems: Use research -based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.	59.79	Attained	
PO5: Modern Tool Usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.	57.68	Attained	-
PO6: The Engineer and Society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.	50.03	Not Attained	Encouraged to participate in the extra-curricular activities through NSS etc. To identify the problems in the society and the scope for solving through engineering.
PO7: Environment and Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.	53.70	Not Attained	Additional interactive session were arranged for students in courses like IPR and Distaster management.
PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.	53.70	Not Attained	More interactive sessions are planned with professionals from industry in order to expose the industrial / societal problems. Skill Based Projects are introduced.In-house Summer internship program to enhance the skills of students was arranged
PO9: Individual and Team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings .	60.31	Attained	-
PO10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.	57.66	Attained	
PO11: Project management and Finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments	56.21	Attained	
PO12: Life -long Learning: Recognize the need for, and have the preparation and ability to engage in independent and life -long learning in the broadest context of technological change.	68.25	Attained	-
PSO1: Graduate will be able to exhibit analytical & logical skills and apply knowledge of Computer Science to design, develop, test and maintenance of software solutions.	62.37	Attained	-
PSO2: Graduate will be able to identify, formulate and resolve real life/social problems by using current computer technology.	62.76	Attained	-