MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE GWALIOR

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

Department : Computer Science & Engineering Year 2018-2022

S.No.	Course Code & Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
1	150301: Digital Electronics	1.72	1.44	1.42	1.40	1.06	1.92	2.00	3.00	2.00	1.33	1.87	2.20	1.58	1.00
2	150302: Data Structures	1.89	1.67	1.22	1.56	1.33	0.89		1.00	1.44	1.33	1.17	1.56	1.47	1.78
3	150304: OOPs and methodology	2.00	2.50	1.50	2.60	1.00	3.00	1.33	2.33	2.67	2.00	3.00	2.80	2.33	1.00
4	150303: Computer Graphics and Multimedia	1.07	1.07	0.67	0.89		0.53	0.67		0.80		0.67	1.07	0.80	1.20
5	150302: Data Structure LAB	2.50	2.33	1.72	2.33	2.00	1.22	1.75	1.50	2.06	1.50	1.75	2.39	2.22	2.67
6	150303: Computer Graphics LAB	2.67	2.50	1.67	1.75	2.00	1.20	2.25	1.50	2.17	2.00	1.75	2.50	2.33	2.50
7	150304: Object Oriented Programming LAB	2.39	1.87	1.67	1.33	1.50	1.39	1.83	1.50	1.72	1.67	1.67	2.39	1.89	2.28
8	150305: Hardware LAB	2.17	1.61	1.56	1.33	1.27	1.22	1.50	1.17	1.61	1.33	1.11	2.20	1.72	1.72
9	150401: Design and Analysis of Algorithm	2.50	2.33	2.00	1.40	1.33	1.50	1.80	1.00	2.00	1.50	2.00	2.50	2.33	2.17
10	150402: Database management system	0.83	0.67	0.67	1.25	0.67	0.50	0.80	0.50	0.67		0.75	0.67	1.00	0.67
11	150403: Operating system	2.25	2.00	1.75	2.00	2.50	1.00	1.75	1.67	1.75	1.50	1.00	2.00	1.75	1.00
12	150404: Computer System Organization	2.50	1.50	1.67	1.67	1.83		1.80	1.83		1.80	2.00	1.83	1.25	1.20
13	150401: Design and Analysis of Algorithm Lab	2.67	2.33	1.50	2.33	2.00	1.50	1.80	1.50	2.17	2.50	1.75	2.83	2.33	2.83
14	150402: Database management system Lab	2.27	2.40	1.78	1.78		1.67	1.67	2.00	2.08	2.00	1.83	2.40	2.07	2.27
15	150405: Programming Lab	1.28	1.11	0.89	0.89		0.72	1.20	0.33	0.89	2.00	0.67	1.33	1.00	1.33
16	150503: Theory of Computation	2.17	1.83	1.22	1.56	1.00	1.00	1.83	1.50	1.61	2.17	1.42	2.00	1.83	2.00
17	150502: Software Engineering	2.27	1.93	1.80	1.11	1.67	1.00	1.89	1.33	2.13	2.00	1.56	2.00	2.07	2.27
18	150504: Microprocessor & Interfacing	2.60	2.60	1.80	1.67	2.00	1.40	2.25	1.50	2.40	2.00	2.33	2.40	2.40	2.40
19	150501: Discrete Structures	2.65	2.40	1.90	1.73	1.33	2.10	2.25	2.17	1.85	2.00	2.07	2.85	1.88	1.60
20	150503: Theory of Computation LAB	2.11	1.94	1.33	1.25	1.67	1.06	1.87	1.17	1.72	1.67	1.50	1.89	1.83	1.83
21	150502: Software Engineering LAB	2.67	2.50	1.67	1.75	2.00	1.20	2.25	1.50	2.17	2.00	1.75	2.50	2.33	2.50
22	150504: Microprocessor and interfacing LAB	2.17	2.00	1.39	1.78	1.33	0.93	1.58	1.33	1.83	2.00	1.50	2.11	1.94	2.06
23	150602: Computer Networks	3.00	1.60	2.00	1.83	2.00	1.00	1.33	1.50	2.00	2.00	1.50	1.60	2.00	1.25
24	150601: Compiler Design	2.50	1.94	1.61	2.00	1.93	0.89	0.89	1.25	1.40	1.50	1.75	2.28	1.61	1.78
25	160611: Network and Web security	2.28	2.06	1.33	1.83	1.78	1.00	1.67	1.08	1.33	1.25	1.50	2.06	1.78	1.56
26	150613: MOBILE COMPUTING	2.83	2.20	1.67	2.00	1.00	1.17	2.40	1.33	2.00	3.00	1.75	2.67	2.20	2.67
27	900106 (OC): DATA STRUCTURE	2.83	2.50	1.67	2.00	3.00	1.20	2.25	1.25	1.83	1.67	1.75	2.50	2.17	2.67
28	900107 (OC): Python Programming	2.50	2.00	2.06	1.87	1.33	1.72	0.89	0.87	1.17	0.83	1.67	1.61	1.72	1.78
29	150711: Networking with TCP/IP	2.67	2.67	1.67	2.00	2.00	1.20	1.00	1.17	2.17	1.00	1.75	2.50	2.33	1.50
30	150713: Distributed Systems	2.83	2.67	2.17	2.67	2.50	1.67	1.00	1.50	1.83	1.17	2.00	2.67	2.00	2.33
31	150712: Data Mining and Warehousing	2.67	2.67	1.89	1.83	1.42	1.06	1.00	1.00	1.94	1.33	1.60	2.06	2.50	2.06
32	Internet of Things LAB	2.83	2.25	2.17	2.40	2.00	1.00	1.00	1.17	1.50	1.50	1.50	2.83	2.00	2.50
33	100008: Intellectual Property Rights	1.89	1.93	1.28	1.56	2.00	2.20	2.33	1.33	1.67	2.50	1.20	1.94	1.83	1.89
34	Internship/ Project	2.50	2.80	1.83	2.00	2.67	1.00	1.40	2.50	2.17	2.17	2.00	2.67	2.00	2.33

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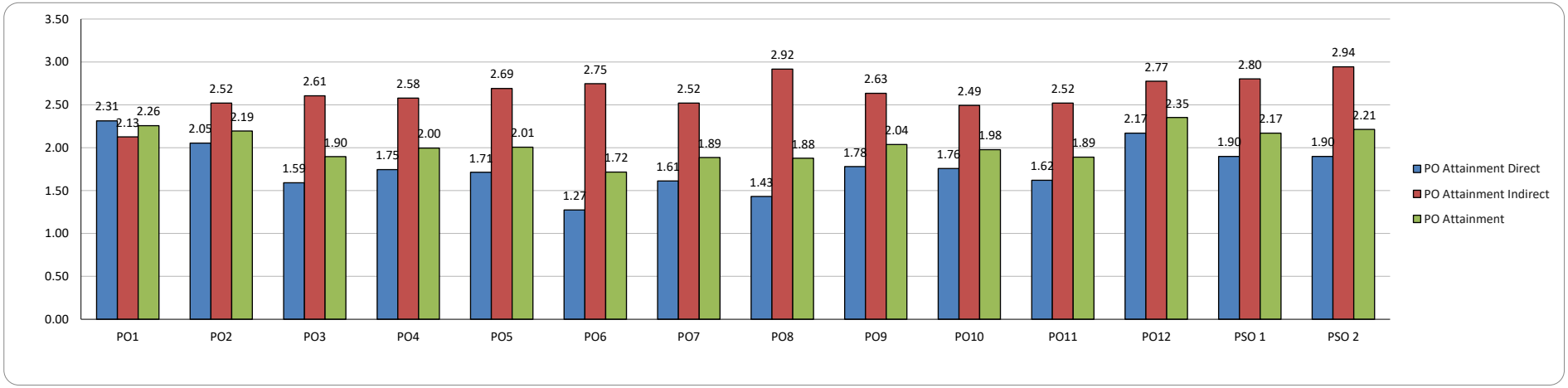
Department : Computer Science & Engineering **Year 2018-2022**

Column1	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
PO Attainment Direct	2.31	2.05	1.59	1.75	1.71	1.27	1.61	1.43	1.78	1.76	1.62	2.17	1.90	1.90
PO Attainment Indirect	2.13	2.52	2.61	2.58	2.69	2.75	2.52	2.92	2.63	2.49	2.52	2.77	2.80	2.94
PO Attainment	2.26	2.19	1.90	2.00	2.01	1.72	1.89	1.88	2.04	1.98	1.89	2.35	2.17	2.21



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DEPARTMENT OF CSE

Summary of Program Outcomes (2018-22 Batch)

Program Outcome	PO Attainment Level	Target attainment level	Gap	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	2.257407254	2	-0.257407254	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.	2.193968747	2	-0.193968747	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.	1.895742428	2	0.104257572	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
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.	1.995036822	2	0.004963178	Not Attained	Extracurricular activities such as debates, technical and cultural events will be organized for honing communication skills of students while teaching them to work as a team.

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.	2.006450856	2	-0.006450856	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.	1.715913359	2	0.284086641	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.	1.885529947	2	0.114470053	Not Attained	Additional interactive session were arranged for students in coureses like IPR and Distaster management.
PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.	1.877627685	2	0.122372315	Not Attained	EEES course was introduced to further strengthen the PO
PO9 Individual and Team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings .	2.036352966	2	-0.036352966	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.	1.977626907	2	0.022373093	Not Attained	Soft skills training is imparted to students to enhance various aspects ofcommunication/technical talks by group discussions, presentations and new learning outcomes. Students were allowed/encouraged to take industry internships for completing 8th semester projects.

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	1.890063518	2	0.109936482	Not Attained	Students were allowed/encouraged to take industry internships for completing 8th semester projects
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.	2.351691752	2	-0.351691752	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.	2.169175136	2	-0.169175136	Attained	-
PSO2 Graduate will be able to identify, formulate and resolve real life/social problems by using current computer technology.	2.212526696	2	-0.212526696	Attained	-