



IES UNIVERSITY, BHOPAL
IES Campus Kalkheda, Ratibad Main Road, Bhopal (M.P.) – 462044
New Scheme of Examination as per AICTE Flexile Curricula

Bachelor of Technology (B.Tech.)[CSE]

W.E.F JULY 2024

I Semester

For batches admitted in July, 2024

S.No .	Course Code	Category	Course Name	Maximum Marks Allotted						Total Marks	Contact Hours per week			Total Credit s
				Theory				Practical			L	T	P	
				End Sem	Mid Sem.	Attd.	Quiz/Assi gnment	End Sem.	Lab work & Sessional					
Mandatory Induction Program (First three weeks)			Physical Activity, Creative Arts, Universal Human Values, Literacy, Proficiency Modules, Lectures by Eminent People, Visits to Local Areas, Familiarization to Dept./Branch & Innovations											
Fourth week onwards classes will start														
1	BT121	BSC	Problem Solving & Algorithm Thinking	50	25	5	20	25	25	150	3	-	2	4
2	BT122	BSC	Calculus & Linear Algebra	50	25	5	20	-	-	100	3	1	-	4
3	BT123	HSMC	English for Communication	50	25	5	20	25	25	150	3	-	2	4
4	BT124	ESC	Basic Electrical And Electronics Engineering	50	25	5	20	25	25	150	3	1	2	5
5	BT125	DC	Computer Hardware Essentials	-	-	-	-	15	10	25	-	-	2	1
6	BT126	DC	Computer Software Essentials	50	25	5	20	25	25	150	3	-	2	4
7	BT127	VAC	Skill Based Course-1 (MOOCs Course)	It's a one credit course & to be completed during the semester and submit certificate before the end of teaching.										1
8	BT128	HSMC	Swachh Bharat Summer Internship Unnat Bharat Abhiyan (100Hrs)Rural Outreach	-	-	-	-	15	10	25	-	-	2	1
9	BT 129	MC	Indian Constitution	Non Credit Mandatory Course (can be done through MOOC platform and certificate need to be submitted										
10	BT 120	HSMC	NCC/NSS/Extra Curricular/Club activities	It's a two credit course and will be evaluated in the second semester based on the performance of first and second semester.										2*
Total				250	125	25	125	130	120	750	15	2	12	24

1HrLecture 1HrTutorial 2HrPractical
 1Credit 1Credit 1Credit



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II Semester

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S. No.	Course Code	Category	Course Name	Maximum Marks Allotted						Total Marks	Contact Hours per week			Total Credits
				Theory Slot				Practical Slot			L	T	P	
				End sem	Mid sem Exam	Attd.	Continuous Assessment	End Sem.	Lab work & Sessional					
1	BT221	HSMC	Semiconductor Physics	50	25	5	20	25	25	150	3	0	2	4
2	BT222	HSMC	Discrete Structure	50	25	5	20	-	-	100	3	1	-	4
3	BT223	ESC	Basic Mechanical & Civil Engineering	50	25	5	20	25	25	150	3	1	2	5
4	BT224	DC	User Interface Design	50	25	5	20	25	25	150	3	-	2	4
5	BT225	DLC	Computer Programming	50	25	5	20	25	25	150	3	-	2	4
6	BT226	HSMC	Language Lab & Seminars	-	-	-	-	25	25	50	-	-	4	2
7	BT227	VAC	Skill Based Course-2 (MOOCs Course)	It's a one credit course & to be completed during the semester and submit certificate before the end of teaching.										1
8	BT 228	MC	Indian Knowledge System	Non Credit Mandatory Course (can be done through MOOC platform and certificate need to be submitted)										
9	BT 229	MC	Basics of Cyber Security	Non Credit Mandatory Course (can be done through MOOC platform and certificate need to be submitted)										
10	BT120	HSMC	NCC/NSS/Extra Curricular/Club activities	It's a two credit course and will be evaluated in the second semester based on the performance of first and second semester.			-	15	10	25	-	-	2	1
Total				250	125	25	100	140	135	775	18	2	14	25

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III Semester

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S. No.	Course Code	Category	Course Name	Maximum Marks Allotted						Total Marks	Contact Hours per week			Total Credit
				Theory				Practical			L	T	P	
				End Term Exam	Mid Term	Attd	Continuous Assessment	End Term Exam	Continuous Assessment					
1	BT-321	HSMC	Probability Statistics & Reliability	50	25	5	20	-	-	100	3	1	-	4
2	CS-322	DC	Computer Organization Architecture	50	25	5	20	25	25	150	3	1	2	5
3	CS-323	DC	Data Structure and Algorithm	50	25	5	20	25	25	150	3	1	2	5
4	CS-324	DC	Object Oriented Programming & Methodology	50	25	5	20	25	25	150	3	1	2	5
5	CS-325	DC	Digital Systems	50	25	5	20	25	25	150	3	-	2	4
6	CS-326	HSMC	Personality Development	-	-	-	-	25	25	50	1	-	-	1
7	CS 327	VAC	Skill Based Course 3 (MOOCs)	It's a one credit course & to be completed during the semester and submit certificate before the end of teaching.										1
8	BT 328	MC	Emotional Intelligence for Managerial Effectiveness	Non Credit Mandatory Course (can be done through MOOC platform and certificate need to be submitted)										
Total				250	125	25	100	125	125	750	16	4	8	25

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IV Semester

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S. No.	Course Code	Category	Course Name	Maximum Marks Allotted						Total Marks	Contact Hours per week			Total Credits
				Theory				Practical			L	T	P	
				End Term Exam	Mid Term	Attd.	Continuous Assessment	End Term Exam	Continuous Assessment					
1	ES-421	ESC	Energy Environment studies & climate Change	50	25	5	20	-	-	100	3	0	-	3
2	CS-422	HSMC	Numerical methods & optimization Techniques	50	25	5	20	-	-	100	3	1	-	4
3	CS-423	DC	Software Engineering	50	25	5	20	25	25	150	3	-	2	4
4	CS-424	DC	Analysis &Design of Algorithm	50	25	5	20	25	25	150	3	1	2	5
5	CS-425	DC	Operating Systems	50	25	5	20	25	25	150	3	1	2	5
6	CS-426	DLC	Programming Practices	-	-	-	-	25	25	50	-	-	4	2
7	BT427	VAC	Skill Based Course -4 (MOOCs)	It's a one credit course & to be completed during the semester and submit certificate before the end of teaching.										1
8	BT428	ESC	Critical & Creative Thinking Skills	-	-	-	-	15	10	25	-	-	2	1
9	CS 429	PJ	Industrial Training	90 Hrs Training to be completed in the semester break of fourth & fifth semester. Its evaluation /credit to be added in fifth semester scheme										0
Total				250	125	25	100	115	110	725	15	4	12	26

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V Semester

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S. No.	Course Code	Category	Course Name	Maximum Marks Allotted						Total Marks	Contact Hours per week			Total Credits
				Theory				Practical			L	T	P	
				End Term Exam	Mid Term	Attendance	Continuous Assessment	End Term Exam	Continuous Assessment					
1	CS 521	DC	Theory of Computation	50	25	5	20	25	25	150	3	-	2	4
2	CS 522	DC	Database Management System	50	25	5	20	25	25	150	3	-	2	4
3	CS 523	DC	AI Foundation	50	25	5	20	25	25	150	3	-	2	4
4	CS 524	DC	Internet & Web Technology	50	25	5	20	25	25	150	3	-	2	4
5	CS525	DE	Departmental Elective-I	50	25	5	20	-	-	100	3	-	-	3
6	CS526	DLC	Python Lab	-	-	-	-	25	25	50	-	-	4	2
7	CS 527	PJ	Project for Community Service (Phase 1)	-	-	-	-	25	25	50	-	-	4	2
8	CS 528	VAC	Skill Based Course -5(MOOC)	It's a one credit course & to be completed during the semester and submit certificate before the end of teaching.										1
			Guided Project-I Coursera											
9	BT 429	PJ	Industrial Training	90 Hrs Training to be completed in the semester break of fourth & fifth semester. Its evaluation /credit to be added in fifth semester scheme				25	25	50	-	-	4	2
Total				250	125	25	100	175	175	850	18	0	20	26

Departmental Electives-I CS 524 (A) - (C)	Open Electives-I OE 525 (A) - (C)
CS 524 (A) Data Mining & Ware Housing	OE 525 (A) Soft Computing
CS 524 (B) Big Data	OE 525 (B) Natural Language Processing
CS 524 (C) Digital Image Processing	OE 525 (C) Computational Intelligence
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VI Semester

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				Theory				Practical			L	T	P	
				End Term Exam	Mid Term	Attendance	Continuous Assessment	End Term Exam	Continuous Assessment					
1	CS621	DC	MachineLearning	50	25	5	20	25	25	150	3	1	2	4
2	CS622	DC	ComputerNetworks	50	25	5	20	25	25	150	3	1	2	4
	CS 623	DC	Internet of Things	50	25	5	20	25	25	150	3	-	2	4
3	CS 624	DE	DepartmentalElective-II	50	25	5	20	-	-	100	3	-	-	3
4	OE 625	OE	OpenElective-II	50	25	5	20	-	-	100	3	-	-	3
5	CS626	DLC	Advance Python Lab	-	-	-	-	25	25	50	-	-	4	2
6	CS 627	PJ	Engineering Project for Community Service (Phase 2)	-	-	-	-	25	25	50	-	-	4	2
7	CS 628	VAC	Skill Based Course -6(MOOC)	It's a one credit course & to be completed during the semester and submit certificate before the end of teaching.										1
			Guided Project-II from Coursera											
Total				250	125	25	100	125	125	750	15	2	14	23

Departmental Electives-II DE 624 (A)- (C)	Open Electives-II OE 625 (A)-(C)
624 (A)AdvancedComputerArchitecture	625 (A)KnowledgeManagement
624 (B)ComputerGraphics&Visualization	625 (B)ProjectManagement
624(C)CompilerDesign	625(C)RuralTechnology&CommunityDevelopment
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VIIISemester

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				Theory				Practical			L	T	P	
				End Term Exam	Mid Term	Attendance	Continuous Assessment	End Term Exam	Continuous Assessment					
1	CS 821	DC	Cloud Computing	50	25	5	20	-	-	100	3	-	2	4
2	CS 822	DE	Departmental Elective –IV	50	25	5	20	-	-	100	3	-	-	3
3	CS 823	OE	Open Elective –IV	50	25	5	20	-	-	100	3	-	-	3
5	CS 824	DLC	Java Script	-	-	-	-	25	25	50	-	-	4	2
6	CS 825	PJ	CAPSTONE PROJECT (Phase 2)	-	-	-	-	100	50	150	-	-	6	3
8	CS826	VAC	Skill Based Course -7 (MOOCs)	It's a one credit course & to be completed during the semester and submit certificate before the end of teaching.										1
Total				150	75	15	60	75	75	500	9	0	12	16

Departmental Electives-IV	Open Electives -IV
822(A) Block Chain Technology	826(A)Cryptography & Information Security
822(B)Deep & Reinforcement Learning	826(B) Managing Innovation &Entrepreneurship
822(C)Wireless &Mobile Computing	826 (c) AI in Health Care

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VII Semester

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S. No.	Course Code	Categories	Course Name	Maximum Marks Allotted						Total Marks	Contact Hours per week			Total Credits
				Theory				Practical			L	T	P	
				End Term Exam	Mid Term	Attendance	Continuous Assessment	End Term Exam	Continuous Assessment					
1	CS721	DE	Departmental Elective –III	50	25	5	20	-	-	100	3	-	-	3
2	CS722	OE	Open Elective –III	50	25	5	20	-	-	100	3	-	-	3
3	CS723	PJ	Capstone Project (Phase 1)	-	-	-	-	50	50	100	-	-	4	2
4	CS 724	PJ	Semester Internship	-	-	-	-	100	150	250	-	-	16	8
			Total	150	75	15	60	150	200	550	6	-	20	16

Departmental Electives-III	Open Electives-III
CS 721 (A) Block Chain Technologies	CS 722 (A) Image Processing & Computer Vision
CS 721 (B) Software Architecture	CS 722 (B) Game Theory
CS 721 (C) Computer Vision	CS 722 (C) IOT Design and Applications

(B)1HrLecture 1Credit	1HrTutorial 1Credit	2HrPractical 1Credit
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