Government College of Engineering, Karad

SCHEME OF INSTRUCTION & SYLLABI

Scheme of Instruction for First Year of M. Tech. (PG) Degree in Computer Science and Engineering Semester – I (W.E.F. AY. 2019-20)

Sr.	Course	Course	Course Title	L	T	P	Contact	Credits	EXAM SCHEME		EME		
No.	Category	Code					Hrs./Wk		CT1	CT2	TA/	ESE	TOTAL
											CA		
1	PCC	CS101	Mathematical foundations of	3	-	-	3	3	15	15	10	60	100
			Computer Science										
2	PCC	CS102	Advanced Data Structures	3	-	-	3	3	15	15	10	60	100
			and Algorithms										
3	PEC	CS1*3	Program Elective I	3	ı	-	3	3	15	15	10	60	100
4	PEC	CS1*4	Program Elective II	3	ı	1	3	3	15	15	10	60	100
5	MDC	RM1105	Research Methodology	2	ı	1	2	2	15	15	10	60	100
6	PCC	CS106	Laboratory 1(Advanced	-	1	4	4	2	-	-	25	25	50
			Data Structures and										
			Algorithms)										
7	PEC	CS107	Laboratory 2 (Based on	-		4	4	2	-	-	50	-	50
			Elective I & II)										
8	OEC	ÒE11*8	Open Elective	3	ı	-	3	3	15	15	10	60	100
9	MNC	AU11*9	Audit Course I	2	ı	-	2	Audit	-	-	-	-	-
			Total	19	ı	8	27	21	90	90	145	385	700

L- Lecture T-Tutorial P-Practical

CT1- Class Test 1 TA/CA- Teacher Assessment/Continuous Assessment

CT2- Class Test 2 ESE- End Semester Examination (For Laboratory: End Semester Performance)

^{*-} Program Elective- I and II, Audit Course I, Open Elective list is provided at the end of structure.

Government College of Engineering, Karad

SCHEME OF INSTRUCTION & SYLLABI

Scheme of Instruction for First Year of M. Tech. (PG) Degree in Computer Science and Engineering Semester – II (W.E.F. AY. 2019-20)

Sr.	Course	Course	Course Title	L	T	P	Contact	Credits		EXAM SCHEME			
No.	Category	Code					Hrs/Wk		CT1	CT2	TA/	ESE	TOTAL
											CA		
1	PCC	CS201	Advanced Computer	3	-	-	3	3	15	15	10	60	100
			Networks										
2	PCC	CS202	Soft Computing	3	ı	1	3	3	15	15	10	60	100
3	PEC	CS2*3	Program Elective III	3	1	-	3	3	15	15	10	60	100
4	PEC	CS2*4	Program Elective IV	3	-	-	3	3	15	15	10	60	100
5	PEC	CS2*5	Program Elective V	3	ı	ı	3	3	15	15	10	60	100
6	PCC	CS206	Laboratory 3 (Based on	1	1	4	4	2	-	-	25	25	50
			cores)										
7	PCC	CS207	Laboratory 4 (Based on		1	4	4	2	-	1	50	1	50
			Elective III & IV)										
8	P/S/IT	CS208	Seminar	-	ı	4	4	2	ı	-	100	ı	100
9	MNC	AU12*9	Audit Course II	2	ı	-	2	Audit	-	-	-	1	-
			Total	17	ı	12	29	21	90	90	235	385	700

L- Lecture T-Tutorial P-Practical

CT1- Class Test 1 TA/CA- Teacher Assessment/Continuous Assessment

CT2- Class Test 2 ESE- End Semester Examination (For Laboratory: End Semester Performance)

^{*-} Program Elective- III, IV and V, Audit Course II list is provided at the end of structure.

Government College of Engineering, Karad SCHEME OF INSTRUCTION & SYLLABI

Scheme of Instruction for First Year of M. Tech. (PG) Degree in Computer Science and Engineering **Semester – III (W.E.F. AY. 2019-20)**

Sr.	Course	Course	Course Title	L	T	P	Contact	Credits	EXAM SCHEME				
No.	Category	Code					Hrs/Wk		CT1	CT2	TA/CA	ESE	TOTAL
1	P/S/IT	CS301	Dissertation Stage-I	-	-	10	10	05	-	-	50	-	50
2	P/S/IT	CS302	Dissertation Stage-II	-	-	10	10	05	-	-	50	100	150
			Total	00	00	20	20	10	-	-	100	100	200

CT1- Class Test 1 TA/CA- Teacher Assessment/Continuous Assessment

CT2- Class Test 2 ESE- End Semester Examination (For Laboratory: End Semester Performance)

Government College of Engineering, Karad

SCHEME OF INSTRUCTION & SYLLABI

Scheme of Instruction for First Year of M. Tech. (PG) Degree in Computer Science and Engineering Semester – IV (W.E.F. AY. 2019-20)

Sr.	Course	Course	Course Title	L	T	P	Contact	Credits	EXAM SCHEME				
No.	Category	Code					Hrs/Wk		CT1	CT2	TA/CA	ESE	TOTAL
1	P/S/IT	CS401	Dissertation Stage-I	1	-	16	16	08	-	-	50	-	50
2	P/S/IT	CS402	Dissertation Stage-II	-	-	16	16	08	-	-	50	200	250
			Total	-	-	32	32	16	-	-	100	200	300

CT1- Class Test 1 TA/CA- Teacher Assessment/Continuous Assessment

CT2- Class Test 2 ESE- End Semester Examination (For Laboratory: End Semester Perform

Government College of Engineering, Karad SCHEME OF INSTRUCTION & SYLLABI

Scheme of Instruction for First Year of M. Tech. (PG) Degree in Computer Science and Engineering

List of Electives

Program Elective I	Program Elective II	Program Elective III	Program Elective IV	Program Elective V
Semester - I	Semester - I	Semester - II	Semester - II	Semester – II
CS113: Machine	CS114: Data Science	CS213: Data Preparation and	CS214: Human and	CS215: Mobile
Learning		Analysis	Computer Interaction	Technologies and Services
CS123 Wireless	CS124: Advanced	CS223: Secure Software Design	CS224: GPU Computing	CS225: Compiler for HPC
Sensor Networks	Distributed Systems	& Enterprise Computing		
CS133 Introduction to	CS134: Advanced	CS233: Computer Vision	CS234: Digital Forensics	CS235: Optimization
Intelligent Systems	Mobile Computing			Techniques

Audit Course I	Audit Course II	Open Elective
Semester – I	Semester – II	Semester - I
CS119: Research Paper Writing	CS219: Constitution of India	OE118: Business Analytics
CS129: Disaster Management	CS229: Pedagogy Studies	OE128: Industrial Safety
CS139: Sanskrit for Technical Knowledge	CS239: Stress Management by Yoga	OE138: Operations Research
CS149: Value Education	CS249: Personality Development through	OE148: Cost Management of
	Life Enlightenment Skills	Engineering Projects
	·	OE158: Composite Materials
		OE168: Waste to Energy