

Government College of Engineering, Karad

SCHEME OF INSTRUCTION & SYLLABI

Programme: Information Technology

Scheme of Instructions: Final Year B. Tech. in Information Technology

Semester – VII (w.e.f. AY. 2022-23)

Sr. No.	Course Category	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Course Credits	EXAM SCHEME				
									CT-1	CT-2	TA/CA	ESE	TOTAL
1	HSMC	IT2701	Law for Engineers	3	-	-	3	3	15	15	10	60	100
2	OEC	IT2702	Robotics and Automation	3	-	-	3	3	15	15	10	60	100
3	PEC	IT27*3	Elective – III	3	-	-	3	3	15	15	10	60	100
4	PEC	IT27*4	Elective – IV	3	-	-	3	3	15	15	10	60	100
5	PCC	IT2705	Information Security	3	-	-	3	3	15	15	10	60	100
6	PCC	IT2706	Cloud Computing and Infrastructure Services	3	-	-	3	3	15	15	10	60	100
7	OEC	IT2707	Robotics and Automation Lab	-	-	2	2	1	-	-	25	-	25
8	PEC	IT27*8	Elective – III Lab	-	-	2	2	1	-	-	25	-	25
9	PCC	IT2709	Information Security Lab	-	-	2	2	1	-	-	25	25	50
10	PCC	IT2710	Cloud Computing and Infrastructure Services Lab	-	-	2	2	1	-	-	25	25	50
11	P/S/IT	IT2711	Seminar	-	1	-	1	1	-	-	25	25	50
12	P/S/IT	IT2712	Industrial Training	-	-	2	2	1	-	-	50	-	50
			Total	18	01	10	29	24	90	90	235	435	850

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)

Course Category	HSMC (Hum., Soc. Sc, Mgmt.)	BSC (Basic Sc.)	ESC (Engg. Sc.)	PCC (Programme Core courses)	PEC (Programme Elective courses)	OEC (Open Elective courses from other discipline)	MCC (Mandatory Courses)	Project / Seminar / Industrial Training
Credits	03	--	--	08	07	04	--	02
Cumulative Sum	10	22	24	51	13	16	Yes	06

PROGRESSIVE TOTAL CREDITS : 118+24 = 142

Government College of Engineering, Karad

SCHEME OF INSTRUCTION & SYLLABI

Programme: Information Technology

Scheme of Instructions: Final Year B. Tech. in Information Technology (**ACADEMIC MODE**)

Semester – VIII (w.e.f. AY. 2022-23)

Sr. No.	Course Category	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Course Credits	EXAM SCHEME				
									CT-1	CT-2	TA/CA	ESE	TOTAL
1	OEC	IT2801	Augmented Reality and Virtual Reality	3	-	-	3	3	15	15	10	60	100
2	PEC	IT28*2	Elective – V	3	-	-	3	3	15	15	10	60	100
3	OEC	IT2803	Augmented Reality and Virtual Reality Lab	-	-	2	2	1	-	-	50	50	100
4	PEC	IT28*4	Elective – V Lab	-	-	2	2	1	-	-	50	-	50
5	P/S/IT	IT2805	Project	-	-	20	20	10	-	-	200	200	400
Total				06	00	24	30	18	30	30	320	370	750

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)

Course Category	HSMC (Hum., Soc. Sc, Mgmt.)	BSC (Basic Sc.)	ESC (Engg. Sc.)	PCC (Programme Core courses)	PEC (Programme Elective courses)	OEC (Open Elective courses from other discipline)	MCC (Mandatory Courses)	Project / Seminar / Industrial Training
Credits	--	--	--	---	04	04	--	10
Cumulative Sum	10	22	24	51	17	20	Yes	16

PROGRESSIVE TOTAL CREDITS:142+18= 160

Government College of Engineering, Karad

SCHEME OF INSTRUCTION & SYLLABI

Programme: Information Technology

Scheme of Instructions : Final Year B. Tech. in Information Technology (INDUSTRY MODE)

Semester – VIII (w.e.f. AY. 2022-23)

Sr. No.	Course Category	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Course Credits	EXAM SCHEME				
									CT-1	CT-2	TA/CA	ESE	TOTAL
1	MOOC	IT2806	MOOC – 1	-	-	-	-	4	-	-	-	-	100
2	MOOC	IT2807	MOOC – 2	-	-	-	-	4	-	-	-	-	100
3	P/S/IT	IT2808	Project	-	-	-	-	10	-	-	250	300	550
			Total	00	00	00	00	18	00	00	250	300	750

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)

Course Category	HSMC (Hum., Soc. Sc, Mgmt.)	BSC (Basic Sc.)	ESC (Engg. Sc.)	PCC (Programme Core courses)	PEC (Programme Elective courses)	OEC (Open Elective courses from other discipline)	MCC (Mandatory Courses)	Project / Seminar / Industrial Training	MOOC
Credits	--	--	--	--	--	--	--	10	08
Cumulative Sum	10	22	24	51	13	16	Yes	16	08

PROGRESSIVE TOTAL CREDITS :142+18= 160

List of Elective subject:

Elective-I	Elective-II	Elective-III	Elective-IV	Elective-V
IT2515: Artificial Intelligence	IT2613: Soft Computing	IT2713: Machine Learning	IT2714: Cognitive Computing	IT2812: Natural Language Processing
IT2525: Signals and Systems	IT2623: Digital Signal Processing	IT2723: Gaming Architecture and Design	IT2724: Human Computer Interface	IT2822: Computer Vision
IT2535: Advanced Database Management System	IT2633: Data warehousing and Data Mining	IT2733: Information Retrieval	IT2734: ERP and Business Intelligence	IT2832: Software Testing and Quality Assurance
IT2545: Operating System and Design	IT2643: Advanced Computer Networks	IT2743: Distributed Systems	IT2744: Object Oriented Modelling and Design	IT2842: High Performance Computing

Elective-III Lab	Elective-V Lab
IT2718: Machine Learning Lab	IT2814: Natural Language Processing Lab
IT2728: Gaming Architecture and Design Lab	IT2824: Computer Vision Lab
IT2738: Information Retrieval Lab	IT2834: Software Testing and Quality Assurance Lab
IT2748: Distributed Systems Lab	IT2844: High Performance Computing Lab