

# Government College of Engineering, Karad

(An Autonomous Institute of Government of Maharashtra)

## B. Tech. Final Year – Information Technology

### Curriculum Structure

#### Semester – VII (Revised from 2019-20)

Sr. No.	Course Category	Course Code	Course Title	L	T	P	Contact Hrs/Wk	Credits	EXAM SCHEME				
									CT1	CT2	TA/CA	ESE	TOTAL
1	PC	IT1701	Software Testing and Quality Assurance	3	-	-	3	3	15	15	10	60	100
2	PC	IT1702	Internet of Things	3	-	-	3	3	15	15	10	60	100
3	PC	IT1703	Information Retrieval	3	1	-	4	4	15	15	10	60	100
4	PE	IT17*4	Elective I	3	-	-	3	3	15	15	10	60	100
5	PC	IT1705	Software Testing and Quality Assurance Lab	-	-	2	2	1	-	-	50	-	50
6	PC	IT1706	Internet of Things Lab	-	-	2	2	1	-	-	50	-	50
7	PC	IT1707	Advanced Software Technology Lab I	2	-	4	6	4	-	-	50	50	100
8	PC	IT1708	Seminar	-	-	1	1	1	-	-	50	-	50
9	PC	IT1709	Industrial Training/ Mini Project	-	-	-	-	2	-	-	50	-	50
10	PC	IT1710	<b>Principles of Information Technology Management</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>3</b>	<b>15</b>	<b>15</b>	<b>10</b>	<b>60</b>	<b>100</b>
11	PC	IT1711	<b>Cloud Computing</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>3</b>	<b>15</b>	<b>15</b>	<b>10</b>	<b>60</b>	<b>100</b>
12	PC	IT1712	<b>Cloud Computing Lab</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>50</b>	<b>-</b>	<b>50</b>
Total				20	1	11	32	29	90	90	360	410	950

\*- Elective- I list is provided at the end of structure.

# **SEMINAR: There will be two presentations, first will be based on Industrial training and another on topic to be selected in consultation with guide.**

CT1- Class Test 1

TA/CA- Teacher Assessment/Continuous Assessment

CT2- Class Test 2

ESE- End Semester Examination (For Laboratory: End Semester Performance)

#### Credits Distribution

Course Category	HS (Hum. And So.)	BS(Basic Sc.)	ES(Engg. Sc.)	PC (Programme)	PE(Programme Electives)	OE (Open Elective)	MC (Mandatory)
Credits	-	-	-	26	3	-	-
Cumulative	9	21	28	111	3	3	-

# Government College of Engineering, Karad

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## B. Tech. Final Year – Information Technology

### Curriculum Structure

#### Semester – VIII (Revised from 2019-20) (Academic Mode)

Sr. No.	Course Category	Course Code	Course Title	L	T	P	Contact Hrs/Wk	Credits	EXAM SCHEME				
									CT1	CT2	TA/CA	ESE	TOTAL
1	PE	IT18*3	Elective II	4	-	-	4	4	15	15	10	60	100
2	PE	IT18*4	Elective III	3	-	-	3	3	15	15	10	60	100
3	PE	IT18*6	Elective III Lab	-	-	2	2	1	-	-	50	-	50
4	PC	IT1807	Advanced Software Technology Lab II	2	-	2	4	3	-	-	50	50	100
5	PC	IT1808	Project	-	-	7	7	12	-	-	150	150	300
Total				09	-	11	20	23	30	30	270	320	650

\*- Elective- II & III list is provided at the end of structure

CT1- Class Test 1

TA/CA- Teacher Assessment/Continuous Assessment

CT2- Class Test 2

ESE- End Semester Examination (For Laboratory: End Semester Performance)

#### Credits Distribution

Course Category	HS (Hum. And So. Sic)	BS(Basic Sc.)	ES(Engg. Sc.)	PC (Programme Core)	PE(Programme Electives)	OE (Open Elective)	MC (Mandatory)
Credits	-	-	-	15	8	-	-
<b>Cumulative</b>	<b>9</b>	<b>21</b>	<b>28</b>	<b>126</b>	<b>11</b>	<b>3</b>	<b>-</b>

# Government College of Engineering, Karad

(An Autonomous Institute of Government of Maharashtra)

## B. Tech. Final Year – Information Technology

### Curriculum Structure

#### Semester – VIII (Revised from 2019-20) (Industry Mode)

Sr. No.	Course Category	Course Code	Course Title	L	T	P	Contact Hrs/Wk	Credits	EXAM SCHEME				
									CT1	CT2	TA/CA	ESE	TOTAL
1	MOOC	IT1801	MOOC-1	-	-	-	-	4	-	-	-	-	-
2	MOOC	IT1802	MOOC-2	-	-	-	-	4	-	-	-	-	-
3	PC	IT1803	Project	-	-	-	-	15	-	-	150	150	300
Total				-	-	-	-	23	-	-	-	-	300

CT1- Class Test 1

CT2- Class Test 2

TA/CA- Teacher Assessment/Continuous Assessment

ESE- End Semester Examination (For Laboratory: End Semester Performance)

#### Credits Distribution

Course Category	HS (Hum. And So. Sic)	BS(Basic Sc.)	ES(Engg. Sc.)	PC (Programme Core)	PE(Programme Electives)	OE (Open Elective)	MC (Mandatory Course)	MOOC
Credits	-	-	-	15	-	-	-	8
<b>Cumulative</b>	<b>9</b>	<b>21</b>	<b>28</b>	<b>126</b>	<b>03</b>	<b>3</b>	<b>-</b>	<b>8</b>

# Government College of Engineering, Karad

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## Programme: Information Technology

### List of Electives offered by IT Department (Revised from 2019-20)

<b>Open Elective</b>	<b>Elective I</b>	<b>Elective II</b>	<b>Elective III</b>	<b>Elective III Lab</b>
<b>Semester - VI</b>	<b>Semester - VII</b>	<b>Semester - VIII</b>	<b>Semester - VIII</b>	<b>Semester - VIII</b>
<b>OE641</b> Web Technology	<b>IT1714</b> Artificial Intelligence	<b>IT1813</b> Soft Computing	<b>IT1814</b> Parallel Computing	<b>IT1816</b> Parallel Computing Lab
	<b>IT1724</b> Mobile Computing	<b>IT1823</b> Bioinformatics	<b>IT1824</b> Ethical Hacking and Digital Forensics	<b>IT1826</b> Ethical Hacking and Digital Forensics Lab
	<b>IT1734</b> Human Computer Interface	<b>IT1833</b> Enterprise Resource Planning	<b>IT1834</b> Gaming Architecture and Design	<b>IT1836</b> Gaming Architecture and Design Lab
		<b>IT1843</b> Science of Design		