

GOVERNMENT COLLEGE OF ENGINEERING, JALGAON.
Department of Computer Engineering.

B. Tech. (Computer Engineering)-2018-19, Sem-III, (Option-II)

Course Code	Name of the Course	Group	Teaching Scheme				Evaluation Scheme						Credits	
							Theory			Practical		Total		
			L	T	P	Total	MSE	ISA	ESE	ICA	ESE			
CO201U	Object Oriented Programming	PC	3	...	...	3	30	10	60	...	...	100	3
CO202U	Digital Electronics and Logic Design	BE	3	...	...	3	30	10	60	...	...	100	3
CO203U	Fundamentals of Data Structures	PC	3	...	...	3	30	10	60	...	...	100	3
CO204U	Discrete Structures and Graph Theory	BS	3	...	...	3	30	10	60	...	...	100	3
CO205U	Humananities and Social Science	HM	2	...	...	2	30	10	60			100	2
CO206U	Problem Solving Using Python	PC	3	...	2	5	...	...	...	25	25	50	3
CO207U	Object Oriented Programming Lab	PC	...	...	2	2	...	...	...	25	25	50	1
CO208U	Fundamentals of Data Structure	PC	...	...	2	2	...	...	...	25	25	50	1
CO209U	Digital Electronics and Logic Design Lab	BE	...	...	2	2	...	...	...	50		50	1
CO210U	Problem Solving Using Python Lab	PC	...	...	2	2	...	...	...	25	25	50	1
SH299U	Effective Technical Communication	HM	...	...	2	2				25	25	50	1
SH200AU	Essence of Indian Traditional Knowledge	HM	Mandatory audit course in self learning				0	60	60	AU
Total			17	0	12	29	150	50	360	175	125	860	22	

L:Lecture

T:Tutorial

P:Practical

MSE:Mid Semester Examination

ISA:Internal Sessional Assessment

ESE:End Semester Exam

ICA:Internal Continuous Assessment

Note:

1. Duration for all (ESE-TH) theory courses is three hours.
2. Duration for all (MSE-TH) theory courses is two hours.
3. SH200AU Essence of Indian Traditional Knowledge is mandatory, non-credit audit course.

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Department of Computer Engineering.

B. Tech. (Computer Engineering)-2018-19, Sem-IV, (Option-II)

Course Code	Name of the Course	Group	Teaching Scheme				Evaluation Scheme						Credits	
							Theory			Practical		Total		
			L	T	P	Total	MSE	ISA	ESE	ICA	ESE			
SH291U	Mathematics for Computer Engineering	BS	3	1	...	4	30	10	60	...	...	100	4
CO251U	Operating Systems and Systems	PC	3	...	...	3	30	10	60	...	...	100	3
CO252U	Data Communication and Networking	PC	3	...	...	3	30	10	60	...	...	100	3
CO253U	Entrepreneurship and Business Management Information	HM	3	...	...	3	30	10	60	...	...	100	3
CO254U	Data Structures and Files	PC	3	...	...	3	30	10	60	...	...	100	3
CO255U	Operating Systems and Systems Programming Lab	PC	...	...	2	2	...	...	...	50	...	50	1
CO256U	Data Communication and Networking	PC	...	...	2	2	...	...	...	25	25	50	1
CO257U	Data Structures and Files Lab	PC	...	...	2	2	...	...	...	25	25	50	1
CO258U	Software Lab-I	PC	1	...	2	3	...	...	...	25	25	50	2
CO259U	Advanced Programming Lab	BE	...	...	2	2	...	...	...	25	25	50	1
SH250AU	Introduction to the Constitution of India	CM	Mandatory audit course in self learning				0	-	-	60	-	-	60	AU
Total			16	1	10	27	150	50	360	150	100	810	22	

L:Lecture

T:Tutorial

P:Practical

MSE:Mid Semester Examination

ISA:Internal Sessional Assessment

ESE:End Semester Exam

ICA:Internal Continuous Assessment

Note:

1. Duration for all (ESE-TH) theory courses is three hours.
2. Duration for all (MSE-TH) theory courses is two hours.
3. Course SH250AU Constitution of India is mandatory, non-credit audit course.
4. Course CO409U Professional Internship of minimum 6 weeks shall be completed during vacation after IV semester and will be assessed in VII semester.

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B. Tech. (Computer Engineering)-2018-19, Sem-V, (Option-II)

SEM V

Course Code	Name of the Course	Group	Teaching Scheme				Evaluation Scheme						Credits
							Theory			Practical		Total	
			L	T	P	Total	MSE	ISA	ESE	ICA	ESE		
CO301U	Computer Networks	PC	3		...	3	30	10	60	...	...	100	3
CO302U	Database Management Systems	PC	3		...	3	30	10	60	...	...	100	3
CO303U	Formal Language and Automata Theory	PC	3	...	...	3	30	10	60	...	...	100	3
CO304U	Professional Elective-I	PE	3	...	...	3	30	10	60	...	...	100	3
CO305U	Open Elective-I	OE	3	...	...	3	30	10	60	...	...	100	3
CO451U	Distributed Systems	PC	3	...	...	3	30	10	60			100	3
CO306U	Computer Networks Lab	PC	...	...	2	2	...	...	...	50	...	50	1
CO307U	Database Management Systems Lab	PC	...	...	2	2	...	...	...	25	25	50	1
CO308U	Professional Elective-I Lab	PE	...	...	2	2	...	...	...	25	25	50	1
CO309U	Software Lab-II	PC	1	...	2	3				25	25	50	2
CO310U	Application Programming Lab	PC	1		2	3				25	25	50	2
CO455U	Distributed Systems Lab	PC	...	...	2	2	...	...	...	25	25	50	1
Total			20	0	12	32	180	60	360	175	125	900	26

L:Lecture

T:Tutorial

P:Practical

MSE:Mid Semester Examination

ISA:Internal Sessional Assessment

ESE:End Semester Exam

ICA:Internal Continuous Assessment

Note:

1. Duration for all (ESE-TH) theory courses is three hours.
2. Duration for all (MSE-TH) theory courses is two hours.
3. Course CO409U Professional Internship of minimum 6 weeks shall be completed during vacation after IV semester and will be assessed in VII semester.

Professional Elective-I
A. Android Programming
B. Machine Learning
C. Software Engineering

Open Elective-I
A. Professional Ethics and cyber Security
B. Software Engineering

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Department of Computer Engineering.

B. Tech. (Computer Engineering)-2018-19, Sem-VI, (Option-II)

Course Code	Name of the Course	Group	Teaching Scheme				Evaluation Scheme						Credits
							Theory			Practical		Total	
			L	T	P	Total	MSE	ISA	ESE	ICA	ESE		
CO351U	Software Project Management	HM	3	...	...	3	30	10	60	...	...	100	3
CO352U	Finance Management and Informantion	HM	2		...	2	30	10	60	...	...	100	2
CO353U	Design and Analysis of Algorithms	PC	3	...	...	3	30	10	60	...	...	100	3
CO354U	Professional Elective-II	PE	3	...	...	3	30	10	60	...	...	100	3
CO355U	Open Elective-II	OE	3	...	...	3	30	10	60	...	...	100	3
CO453U	Professional Elective-V	PE	3	...	...	3	30	10	60	...	...	100	3
CO356U	Design and Analysis of Algorithms Lab	PC	...	...	2	2	...	...	...	25	25	50	1
CO357U	Professional Elective-II Lab	PE	...	...	2	2	...	...	...	25		25	1
CO358U	'R' Programming	PC	1	...	2	3	...	...	...	25	25	50	2
CO359U	Web Programming Lab	PC	1		2	3				25	25	50	2
CO457U	Professional Elective-V Lab	PE	...	...	2	2	...	...	...	25	25	50	1
CO360U	Miniproject	PS	...	...	2	2	...	...	...	25	25	50	1
CO361U	Seminar	PS		...	2	2	...	...	...	25		25	1
Total			19	0	14	33	180	60	360	175	125	900	26

L:Lecture

T:Tutorial

P:Practical

MSE:Mid Semester Examination

ISA:Internal Sessional Assessment

ESE:End Semester Exam

ICA:Internal Continuous Assessment

Note:

1. Duration for all (ESE-TH) theory courses is three hours.
2. Duration for all (MSE-TH) theory courses is two hours.
3. Course CO409U Professional Internship of minimum 6 weeks shall be completed during vacation after IV semester and will be assessed in VII semester.

Professional Elective-II
A. Professional Ethics and Cyber Security
B. Internet of Things
C. Embedded System

Open Elective-II
A. Internet and communication Technology
B. Human Computer Interaction

Professional Elective-V
A. Fundamental of Artificial Neural Network
B. Big data Analytics
C. Information Storage and Management

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B. Tech. (Computer Engineering)-2018-19, Sem-VII, (Option-II)

Course Code	Name of the Course	Group	Teaching Scheme				Evaluation Scheme						Credits
							Theory			Practical		Total	
			L	T	P	Total	MSE	ISA	ESE	ICA	ESE		
CO401U	Compiler Design	PC	3	...	...	3	30	10	60			100	3
CO402U	Cryptography and Network Security	PC	3	...	...	3	30	10	60			100	3
CO403U	Professional Elective-III	PE	3	...	...	3	30	10	60	...	...	100	3
CO404U	Professional Elective-IV	PE	3	...	...	3	30	10	60	...	...	100	3
CO405U	Open Elective-III	OE	3	...	...	3	30	10	60	...	...	100	3
CO452U	Cloud Computing	PC	3	...	...	3	30	10	60	...	...	100	3
CO406U	Compiler Design Lab	PC	...	...	2	2	...	...	...	25	25	50	1
CO407U	Cryptography and Network Security Lab	PC	...	...	2	2	...	...	...	25	25	50	1
CO408U	Professional Elective-III Lab	PE	...	...	2	2	...	...	...	25	25	50	1
CO456U	Cloud Computing Lab	PC	...	...	2	2	...	...	...	25	25	50	1
CO409U	Professional Internship	PS			2	2				25		25	1
CO410U	Industrial Lecture	PS	1	...	...	1	...	...	...	25	...	25	1
Total			19	0	10	29	180	60	360	150	100	850	24

L:Lecture

T:Tutorial

P:Practical

MSE:Mid Semester Examination

ISA:Internal Sessional Assessment

ESE:End Semester Exam

ICA:Internal Continuous Assessment

Note:

1. Duration for all (ESE-TH) theory courses is three hours.
2. Duration for all (MSE-TH) theory courses is two hours.
3. Course CO409U Professional Internship of minimum 6 weeks shall be completed during vacation after IV semester and will be assessed in VII semester.

Professional Elective-III
A. Image Processing
B. Bio-Informatics
C. Software Metrics and Quality Assurance

Professional Elective-IV
A. Web and Internet
B. Management Information System
C. Data Analytics

Open Elective-III
A. Software Metrics and Quality Assurance
B. Information Storage and Management

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Course Code	Name of the Course	Group	Teaching Scheme				Evaluation Scheme						Credits
							Theory			Practical		Total	
			L	T	P	Total	MSE	ISA	ESE	ICA	ESE		
CO454U	Professional Elective-VI *	PE	3	...	...	3	30	10	60	...	...	100	3
CO458U	Project	PS	...	...	6	6	...	...	...	100	100	200	8
CO459U	Industrial Visit/Special Study/EDT	PS	0	50	...	50	1
Total			3	0	6	9	30	10	60	150	100	350	12

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Note:

1. Duration for all (ESE-TH) theory courses is three hours.
2. Duration for all (MSE-TH) theory courses is two hours.

Professional Elective-VI

Android Programming	Professional Ethics and Cyber Security	Image Processing	Web and Internet
Machine Learning	Internet of Things	Bio-Informatics	Management Information System
Software Engineering	Embedded System	Software Metrics and Quality Assurance	Data Analytics
Ad-Hoc and Sensor Network	Advanced Deep Learning	Introduction to Deep Learning	Data Warehousing and Mining
Information Storage and Management	Pattern Recognition	Big Data Analytics	

* In Professional Elective-VI, Students can take one MOOC course which he is not studied in his programme earlier(List of courses is given above) or chairman / Member