## **Department of Computer Engineering.**

Scheme for B. Tech. (Computer Engineering)-2018-19, Sem-III (Option-I)

				Tanahing Sahama					Evaluation Scheme						
Course Code	Name of the Course	Group	Teaching Scheme				Theory			Practical		Total	Credits		
Code			L	T	P	Total	MSE	ISA	ESE	ICA	ESE	Total			
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 Structure	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			3	30	10	60			100	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	H N 1	Mandatory audi mode equivalen		•	0			60			60	AU		
		Total	17	0	10	27	180	60	420	150	100	910	22		

L:Lecture T:Tutorial P:Practical MSE:Mid Semester Examination

ISA:Internal Sessional Assessment

**ESE:End Semester Exam** 

**ICA:Internal Continuous Assessment** 

- 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.

#### **Department of Computer Engineering.**

Scheme for B. Tech. (Computer Engineering)-2018-19, Sem-IV(Option-I)

			Tkin C-k					Evaluation Scheme						
Course Code	Name of the Course	Group	Teaching Scheme				Theory			Practical		Total	Credits	
Code			L	T	P	Total	MSE	ISA	ESE	ICA	ESE	Total		
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	НМ	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 Constitutation of India	HM	mode equivalen	t to study o	f 3 hrs/week	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 Contineous Assessment

- 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.

### **Department of Computer Engineering.**

Scheme for B. Tech. (Computer Engineering)-2018-19, Sem-V(Option-I)

			Tr. 11 . C.1					Evaluation Scheme						
Course	Name of the Course	Group		Teaching S	Teaching Scheme			Theory			Practical		Credits	
Code			L	T	P	Total	MSE	ISA	ESE	ICA	ESE	Total		
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	
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	
		Total	17	0	10	27	150	50	300	150	100	750	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 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

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

#### **Department of Computer Engineering.**

Scheme for B. Tech. (Computer Engineering)-2018-19, Sem-VI(Option-I)

			Tanahing Sahama					Evaluation Scheme						
Course Code	Name of the Course	Group	Teaching Scheme				Theory			Practical		Total	Credits	
Couc			L	T	P	Total	MSE	ISA	ESE	ICA	ESE	Total		
CO351U	Software Project Management	HM	3			3	30	10	60			100	3	
CO352U	Finance Management and Informantion System	НМ	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	
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 Lab	PC	1		2	3				25	25	50	2	
CO359U	Web Programming Lab	PC	1		2	3				25	25	50	2	
CO360U	Mini-project	PS			2	2				25	25	50	1	
CO361U	Seminar	PS			2	2				25		25	1	
		Total	16	0	12	28	150	50	300	150	100	750	22	

L:Lecture T:Tutorial P:Practical MSE:Mid Semester Examination

ISA:Internal Sessional Assessment ESE:End Semester Exam ICA:Internal Continuous Assessment

- 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

### **Department of Computer Engineering.**

Scheme for B. Tech. (Computer Engineering)-2018-19, Sem-VII(Option-I)

				Tki C-k					Evaluation Scheme						
Course	Name of the Course	Group	Teaching Scheme				Theory			Practical			Credits		
Code	Traine of the Course	Group	L	Т	P	Total	MSE	ISA	ESE	ICA	ESE	Total			
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		
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		
CO409U	Professional Internship	PS				0				25		25	1		
CO410U	Industrial Lecture	PS	1			1				25		25	1		
CO411U	Project Phase I	PS			2	2				25	25	50	2		
Tota	al		16	0	8	24	150	50	300	150	100	750	22		

L:Lecture T:Tutorial P:Practical MSE:Mid Semester Examination

ISA:Internal Sessional Assessment ESE:End Semester Exam ICA:Internal Continuous Assessment

- 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

## **Department of Computer Engineering.**

Scheme for B. Tech. (Computer Engineering)-2018-19, Sem-VIII(Option-I)

Course Code	Name of the Course	Group	Teaching Scheme				Evaluation Scheme						
							Theory			Practical			Credits
			L	Т	P	Total	MSE	ISA	ESE	ICA	ESE	Total	Credits
CO451U	Distributed Systems	PC	3			3	30	10	60			100	3
CO452U	Cloud Computing	PC	3			3	30	10	60			100	3
CO453U	Professional Elective-V	PE	3			3	30	10	60			100	3
CO454U	Professional Elective-VI	PE	3			3	30	10	60			100	3
CO455U	Distributed System Lab	PC			2	2				25	25	50	1
CO456U	Cloud Computing Lab	PC	•••		2	2				25	25	50	1
CO457U	Professional Elective-V Lab	PE	•••		2	2				25	25	50	1
CO458U	Project Phase II	PS			4	4				75	75	150	6
CO459U	Industrial Visit/Special Study/EDT	PS				0				50		50	1
Total			12	0	10	22	120	40	240	200	150	750	22

L:Lecture T:Tutorial P:Practical MSE:Mid Semester Examination

ISA:Internal Sessional Assessment ESE:E

**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.

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

Professional Elective-VI				
A. Ad-Hoc Sensor Networks				
B. Advanced Deep Learning				
C. Data Warehousing and Data Mining				