# KSIT

### Kammavari Sangham(R)-1952

### K. S. INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi, Affiliated to VTU, Belagavi, Karnataka, Accredited by NACC & NBA (Dept. of CSE, ECE, ME) #14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109 Tel:28435722 / 724 E-mail:principal@ksit.edu.in Web:www.ksit.edu.in

# C. 1.1.1: The Institution ensures effective curriculum delivery through a well-planned and documented process:

Supporting Documents:

Index

Sl No.	Academic Year	Particulars
1	2022-23 (Even Sem)	Course file
		1. Lesson Plan
		2. Assignment Questions with Scheme
		3. IA question Paper with Scheme (both sets)
		4. All IA marks and final AVG marks
		5. Slow Learners and Remedial class
		6. Advanced Learners Challenging Questions
		7. Pedagogy Report and Proofs (Proof of usage of ICT
		Tools)
		8. Question Bank for each Module
		9. Previous year VTU Question papers, Scheme for
		evaluation
		10. VTU Results (Detailed Analysis: Max Marks, Min
		Marks, Avg Marks, No. of FCD, FC, SC, Fail)
		11. CO PO PSO Attainment
		12. Course End Survey
2		Academic Calendar, Internal Assessment Schedule
3		Lesson Plan



### KSIT BANGLORE

### DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

### COURSE FILE

NAME OF THE STAFF :

Dr. SUREKHA BORRA

SUBJECT CODE/NAME :

18EC646/ PYTHON APPLICATION

PROGRAMMING

SEMESTER/YEAR

VI/III

12

.

ACADEMIC YEAR

2022 - 2023

BRANCH

ECE (A & B SECTIONS)

COURSE IN-CHARGE



### KSIT BANGLORE

### DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

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COURSE IN-CHARGE



### K. S. INSTITUTE OF TECHNOLOGY

### VISION

"To impart quality technical education with ethical values, employable skills and research to achieve excellence".

### MISSION

- To attract and retain highly qualified, experienced & committed faculty.
- · To create relevant infrastructure.
- Network with industry & premier institutions to encourage emergence of new ideas by providing research & development facilities to strive for academic excellence.
- To inculcate the professional & ethical values among young students with employable skills & knowledge acquired to transform the society.

### DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

### VISION

"To achieve excellence in academics and research in Electronics & Communication Engineering to meet societal need".

### MISSION

- To impart quality technical education with the relevant technologies to produce industry ready engineers with ethical values.
- To enrich experiential learning through active involvement in professional clubs & societies.
- To promote industry-institute collaborations for research & development.



# - K.S. INSTITUTE OF TECHNOLOGY DEPARTMENT: ELECTRONICS AND COMMUNICATION ENGG.

### PROGRAM EDUCATIONAL OBJECTIVES (PEO'S)

PEO1: Excel in professional career by acquiring domain knowledge.

PEO2: Motivation to pursue higher Education and research by adopting technological innovations by continuous learning through professional bodies and clubs.

PEO3: To inculcate effective communication skills, teamwork, ethics and leadership qualities.

### PROGRAM SPECIFIC OUTCOMES (PSO'S)

PSO1: Graduate should be able to understand the fundamentals in the field of Electronics and Communication and apply the same to various areas like Signal processing, embedded systems, Communication & Semiconductor technology.

PSO2: Graduate will demonstrate the ability to design, develop solutions for Problems in Electronics and Communication Engineering using hardware and software tools with social concerns.

### PO: PROGRAM OUTCOMES

- Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and engg, specialization to the solution of complex engineering problems.
- Problem analysis: Identify, formulate, research literature, and analyze engineering problems to arrive at substantiated conclusions using first principles of mathematics, natural, and engineering sciences.
- Design/development of solutions: Design solutions for complex engineering problems and design system components, processes to meet the specifications with consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- 4. Conduct investigations of complex problems: Use research-based knowledgé including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
- The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- Individual and team work: Function effectively as an individual, and as a member or leader in teams, and in multidisciplinary settings.
- 10. Communication: Communicate effectively with the engineering community and with society at large. Be able to comprehend and write effective reports documentation. Make effective presentations, and give and receive clear instructions.
- 11. Project management and finance: Demonstrate knowledge and understanding of engineering and management principles and apply these to one?s own work, as a member and leader in a team. Manage projects in multidisciplinary environments.
- Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



### K. S. INSTITUTE OF TECHNOLOGY

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109

### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

		pplication Programming	D-1-1- 2020 24		
	emic year:20		Batch: 2020-24		
	The state of the s	: Dr. B. Surekha	de:18EC646		
Type:	Elective				
199	Trans.	Practical/Field	lours per week Total/Week	Total	teaching hours
	'heory ture Class)	Work/Allied Activities	Total/Week	Total	cacining nours
Trect	4	0	4		50
	17.4		Marks		73
In	iternal Asses	sment	Examination	Total*	Credits
	40	000 C 1	60	100	3
Aim/	Objective of	the Course:			
1. 2. 3. 4. 5. Cours CO1 CO2 CO3	Learn Synta: Handle Strin Understand Implement ( Build Web S se Learning  Make use variables, o Utilize the Make use Expression Apply clas in Python.	nable students to:  x and Semantics and create igs and Files in Python.  Lists, Dictionaries and Regu Object Oriented Programmin ervices and introduction to Outcomes: At the end of the of Python syntax and semant expressions, and statements concepts of Iterations and of core data structures like as to build Python program ses, objects, and functions to	ular expressions in Python ng concepts in Python Network and Database Pr ie course, the student will ntics, and <b>build</b> functions s. Strings to <b>model</b> File Syst Lists, Dictionaries and Re s. to <b>develop</b> Object-Oriente	ogramming i be able to, with ems. gular d Programs	n python  Applying(K3)  Applying(K3)  Applying(K3)  Applying(K3)
CO5	Make use construct	of Network Programming, exemplary applications rela	Web Services and Databas ated to Python, abus Content:	es to	Applying(K3)
Modi	25.4	Sylia	abus content		CO1
Why s Condi LO: A 1. Uno 2. Uno	should you le itional execu t the end of t derstand the derstand the	earn to write programs, Var tion, Functions his session the student will concepts of statements and concepts of functions, s using Python with Variable	be able to, I conditional execution.		10 Hours PO1 - 3 PO2 - 3 PO3 - 1 PO4 - 1 PO12 - 2 PSO1 - 3 PSO2 - 2
LO: A 1. Un 2. Un 3. Un	derstand the derstand the derstand the	Files this session the student will concepts of Iteration. concepts of Strings. concepts of Files s using Python handling loo			10 Hours P01 - 3 P02 - 3 P03 - 1 P04 - 1 P012 - 2 PS01 - 3 PS02 - 2

Module 3: Lists, Dictionaries, Tuples, Regular Expressions LO: At the end of this session the student will be able to, 1. Understand the concepts of Lists. 2. Understand the concepts of Dictionaries. 3. Understand the concepts of Tuples and Regular Expressions. 4. Write programs using Python data structures.	CO3 10 Hours PO1 - 3 PO2 - 2 PO3 - 1 PO4 - 1 PO12 - 1 PSO1 - 2 PSO2 - 2
Module 4: Classes and objects, Classes and functions, Classes and methods LO: At the end of this session the student will be able to, 1. Understand the concepts of Classes and Objects. 2. Understand the concepts of Classes and functions. 3. Understand the concepts of Classes and methods. 4. Write Object-Oriented Python Programs.	PO1 - 3 PO2 - 2 PO3 - 1 PO4 - 1 PO12 - 1 PS01 - 2 PS02 - 2
Module 5: Networked programs, Using Web Services, Using databases and SQL LO: At the end of this session the student will be able to, 1. Understand the concepts of Network Programs 2. Understand the concepts of Web services. 3. Develop Programs for exemplary applications	CO5 10 Hours PO1 - 3 PO2 - 2 PO3 - 2 PO4 - 2 P12 - 2 PSO1 -3 PSO2 -2

### Textbooks: -

 Charles R. Severance, "Python for Everybody: Exploring Data Using Python 3", 1 Edition, Create Space Independent Publishing Platform, 2016 (Chapters 1 — 13, 15).

 Allen B. Downey, "Think Python: How to Think Like a Computer Scientist", 2n Edition, Green Tea Press, 2015 (Chapters 15,16,17)

### Reference Books:

- Mark Lutz, "Programming Python", 4th Edition, O'Reilly Media, 2011.ISBN-132978-9350232873.
   Wesley J Chun, "Core Python Applications Programming", 3rd Edition, Pearson Education India, 2015. ISBN—13: 978—9332555365.
- Reema Thareja, "Python Programming using problem solving approach", Oxford university press, 2017

### Useful Websites

- 1. https://nptel.ac.in/courses/106106145/
- https://nptel.ac.in/courses/117106113/34
- https://nptel.ac.in/courses/106105166/26

### **Useful Journals**

- 1. Journal of Computing Sciences in Colleges
- 2. Journal of Computational Science
- 3. International Journal of Computing Science and Mathematics

### Teaching and Learning Methods:

- 1. Lecture class: 40 hrs.
- Self-study: 5hrs.
- 3. Mini Projects-Seminars: 10hrs.

## Justification for CO-PO /PSO mapping

SI No.	CO	PO	Number of Key Elements of PO Mapped To CO	Justification	
01: N	Aake us	se of Pytho	on syntax and semantics, and build functions with variables, expressions, and	statements.	
02: L	Itilize ti	he concep	ts of Iterations and Strings to model File Systems.		
1	CO1,	1	The students will be able to apply the knowledge of  Mathematics Science, Engineering fundamentals to the solution of complex engineering problems	3 Keywords are mapped. Hence strength is 3	
2		2	The students will be able to Identify Formulate Analyse using first principles of mathematics and engineering sciences.	3 Keywords are mapped. Hence strength is 3	
3		3	The students will be able to  Design solutions for complex engineering problems	I Keyword mapped. Hence strength is I	
4		4	The students will be able to  Use research-based knowledge for analysis and interpretation of data	I Keyword mapped. Hence strength is I	
5		و	The students will be able to  Select Apply appropriate Python library tools to complex engineering activities	2 Keywords are mapped. Hence strength is 2	
6		6	The students will be able to apply reasoning to assess issues  Societal  Health Safety 4.	3 Keywords are mapped, Hence Strongth is 3	
7		7	The students will be able to understand the impact of the professional engineering solutions in societal and environmental contests	3 Keywords are mapped. Hence strength is 3	
8		9	The students will be able to work effectively in  Multidisciplinary settings  As an Individual  As a team member	3 keywords are mapped. Hence strength is 3	
9		10	10 The students will be able to communicate effectively by Comprehending Write Reports Presentations		3 Keywords are mapped. Hence strength is 3
10		11	The students will be able to  Demonstrate knowledge and understanding of engineering	1 Keyword mapped. Hence strength is 1	
11		12	The students will be able to engage in knowledge upgradation through  Independent learning  Lifelong learning	2 Keywords are mapped. Hence strength is 2	
12		PSO1	The students will be able to understand and apply the fundamentals of ECE in  Signal Processing  Embedded systems  Communication	3 Keywords are mapped. Hence strength is 3	
13		PSO2	The students will have the ability to  Design and develop solutions use modern tools for societal concern	2 Keywords are mapped. Hence strength is 2	
CO3:	Make Apply	use of cor classes, o	e data structures like Lists, Dictionaries and Regular Expressions to buil bjects, and functions to develop Object-Oriented Programs in Python.	d Python programs.	
14	CO3, CO4	1	The students will be able to apply the knowledge of mathematics science	3 Keywords are mapped. Hence Strength is 3	

Assessment:

Type of test/examination: Written examination

Continuous Internal Evaluation (CIE): 40 marks (30 Marks IA+10 Marks Assignment: Average of

3 tests will be considered)

Semester End Exam (SEE): 60 marks (students have to answer all main questions)

Test duration:

1:30 hr

Examination duration: 3 hrs

### CO to PO Mapping

PO1: Science and engineering Knowledge

PO2: Problem Analysis

PO3: Design & Development

PO4: Investigations of Complex Problems

PO5: Modern Tool Usage

PO6: Engineer & Society

P07: Environment and Society

PO8: Ethics

PO9: Individual & Teamwork

PO10: Communication

PO11: Project Mgmt. & Finance

PO12: Lifelong Learning

PSO1: Graduate should be able to understand the fundamentals in the field of Electronics & Communication and apply the same to various areas like Signal processing, Embedded systems, Communication & Semiconductor technology.

PSO2: Graduate will demonstrate the ability to design, develop solutions for problems in Electronics & Communication Engineering using hardware and software tools with social concerns.

СО	Bloom's Level	PO3	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	POIO	POLI	PO12	PSO1	PSO2
COI	K3	3	3	1,	-1	2	3	3	_	3	3	1	2	3	2
CO2	К3	3	3	1	1	2	3	3	-	3	3	1	2	3	2
CO3	К3	3.	2	1	1	2	1	1	_	1	1	1	1	2	2
CO4	К3	3	2	1	1	2	1.	1		1	1	1	1	2	2
CO5	K3	3	3	3	.2	2	10	1	-	1	1	1	2	3	2
	53 before	3	2	2	1.2			-	~	•	-		14.1	3	2
Strength for Content Beyond Syllabus activity: Power Point Presentation		360		-	-	2	1.8	L8		1.8	1.8	<b>1</b>	1.6	*	
18EC53 after CBS		3.	2.6	1.4	1.2	2	1.8	1.8	€.	1.8	1.8	1	1.6	2.6	2

### CO PO mapping for the events conducted after gap identification.

Sl. No.	Gap Identification	Activity Planned to fill the gap	СО	Relevant PO Mapping
1	P05- P012	Mini-Project	CO1, CO2, CO3, CO4, CO5	PO5-PO7, PO9- PO12

15		2	The students will be able to  Identify Formulate using first principles of mathematics and engineering sciences.	2 Keywords are mapped. Hence strength is 2
16		1	The students will be able to  Design solutions for complex engineering problems	I keyword mapped. Hence strength is I
17		4	The students will be able to  Use research-based knowledge for analysis and interpretation of data	1 keyword mapped. Hence strength is 1
18		5	The students will be able to  Select Apply appropriate Python library tools to complex engineering activities	2 keywords are mapped. Hence strength is 2
19		6	The students will be able to apply reasoning to assess issues:  Societal	1 keyword mapped. Hence strength is 1
20		7.	The students will be able to  understand the impact of the professional engineering solutions in societal contexts	1 keyword mapped. Hence strength is 1
21		9	The students will be able to work effectively in  As an individual	I keyword mapped. Hence strength is I
22		10	The students will be able to  Make effective presentations	I keyword mapped. Hence strength is I
23		н,	The students will be able to  Demonstrate knowledge and understanding of engineering	I Keyword mapped. Hence strength is 1
24		12	The students will be able to engage in knowledge upgradation through  Independent learning	I keyword mapped. Hence strength is I
25		PSO1	The students will be able to understand and apply the fundamentals of ECE in  Signal Processing Embedded systems	2 Keywords are mapped. Hence strength is 2
26		PSO2	The students will have the ability to  Design and develop solutions  use modern tools for societal concern	2 Keywords are mapped. Hence strength is 2
CO5:	Make	use of No	twork Programming, Web Services and Databases to construct exemplar Python	y applications related to
27	CO5	1	The students will be able to apply the knowledge of  Mathematics  Science.	3 Keywords are mapped. Hence strength is 3
20	(C-1000)		Engineering fundamentals     to the solution of complex engineering problems	
28		2	to the solution of complex engineering problems  The students will be able to     identify     Formulate     Analyse	3 Keywords are mapped. Hence strength is 3
200		3	to the solution of complex engineering problems  The students will be able to     identify     Formulate	
28		. (*3.9)	to the solution of complex engineering problems  The students will be able to     identify     Formulate     Analyse     using first principles of mathematics and engineering sciences.  The students will be able to design solutions for complex engineering problems with consideration for the     public health and safety     cultural, societal	Hence strength is 3  3 Keywords are mapped.
28		3	to the solution of complex engineering problems  The students will be able to     identify     Formulate     Analyse     using first principles of mathematics and engineering sciences.  The students will be able to design solutions for complex engineering problems with consideration for the     public health and safety     cultural, societal     Environmental considerations.  The students will be able to     Design experiments     Use research-based knowledge for analysis and interpretation of data  The students will be able to     Select     Apply	Hence strength is 3  3 Keywords are mapped. Hence strength is 3  2 Keywords are mapped.
28		3	to the solution of complex engineering problems  The students will be able to     identify     Formulate     Analyse     using first principles of mathematics and engineering sciences.  The students will be able to design solutions for complex engineering problems with consideration for the     public health and safety     cultural, societal     Environmental considerations.  The students will be able to     Design experiments     Use research-based knowledge for analysis and interpretation of data  The students will be able to     Select	Hence strength is 3  3 Keywords are mapped. Hence strength is 3  2 Keywords are mapped. Hence strength is 2  2 Keywords are mapped.

34	9	The students will be able to work effectively in  As an Individual	I keyword mapped. Hence strength is I
35	10	The students will be able to  Make effective presentations	1 keyword mapped. Hence strength is 1
36	11	The students will be able to  Demonstrate knowledge and understanding of engineering	1 Keyword mapped. Hence strength is 1
37	12	The students will be able to engage in knowledge upgradation through  Independent learning Lifelong learning	2 Keywords are mapped Hence strength is 2
38	PSOI	The students will be able to understand and apply the fundamentals of ECE in  Signal Processing  Embedded systems  Communication	3 Keywords are mapped Hence strength is 3
39	PSO2	The students will have the ability to  Design and develop solutions use modern tools for societal concern	2 Keywords are mapped Hence strength is 2

Signature of Course In charge

Signature of Module Coordinator

Signature of HOD ECE



### K. S. INSTITUTE OF TECHNOLOGY, BENGALURU-560109

TENTATIVE CALENDAR OF EVENTS: VI EVEN SEMESTER (2022-2023) SESSION: MARCH TO JULY 2023

Neek .	Month	No. of Contrast		Di	Days	Activities			
No.	Stollan	Mon	Tue	Wed	Thu	Fri	Sat	Daye	
1	MAR	20*	21	22 H	23	24	25	5	20° - Commencement of VI Sem 22- Ugadi 25-Monday Time Table
2	MAR/APR	27	28	29	30	31	1	6	1-Monday Time Table
3	APR	311	4	5	6	711	81711	3	3-Mahaveera Jayanthi 7-Good Friday
4	APR	10	1.1	12	13	1411	15 TA	5	14-Dr. B R Ambedkar Jayanthi 15-Monday Time Table
5	APR	1711	18T1	19T1	20	21	220H	5	Interceptance and a
6	APR	24BV	25* FFB1	26 ASD	27	28	29	6	25* - First Faculty Feed Back 29-Friday Time Table
7	MAY	111	2	3	4	5	6DH	4	1-May Day
8	MAY	8	9	10	11	12	13	6	13-Friday Time Table
9	MAY	15	16	17	18	19	20000	5	
10	MAY	22 LT1	23 L/T1	24 LT1	25	26 TA	27	6	27-Tuesday Time Table
n	MAYJUN	2912	30 T2	31 T2	1	2	-дрн	4	
12	JUN	5 BV	6 * FFB2	7 ASD	8	9	10	6	6 - Second Faculty Feed Back 10-Wednesday Time Table
13	IUN	12	13	14 -	15	16	(vinn	5	The state of the s
14	JUN	19	20	21	22	23	24	6	24-Tuesday Time Table
15	JUNJULY	26 LT2	27 J/T2	28 LT2	29H	30	imm	5	29 - Bakrid
16	nerv	3 73	4 T3	5 T3	6	7	8	6	8-Wednesday Time Table
17	JULY	10*						1	10* - Last Working day

Total Number of working days ( Excluding holidays and Tests)-69

	TO(a) Ivini
н	Holiday
BV	Blue Book Verification
T1,T2,T3	Tests 1,2,3
ASD	Attendance & Sessional Display
DH	Declared Holiday
LTI	Lab Test I
TA	Test attendance

WHITE ORAS E PARTITUDE	ng memuay
Monday	13
Tuesdny	13.
Wednesday	12
Thursday	15
Friday	16
Total	69

PRINCIPAL

K.S. INSTITUTE OF TECHNOLOGY

BENGALURU - 560 100.



K. S. INSTITUTE OF TECHNOLOGY, BENGALURU-560109 TENTATIVE CALENDAR OF EVENTS: VIII EVEN SEMESTER (2022-2023)

SESSION:	200 P 202 S	-MAY	2023
STANSHING.			100000

	Vork Crosse			130	Days	Activities			
Week	Month	Mon	Tue	Wind	Thu	Fri	Sut	-	
No.	FFB	1.3	14	15	16	17	18 0.11	5	18- Maha Shivaratri
2	FER	20	21	22	23	24	25	6	25- Wednesday Time Tuble
3:	FEB/MAR	27	28	ı	2 BV	3 ASD	4 D)1	5	
4	MAR	6	7	8	9	10	HTA	6	11 - Tuesday Time Table
5	MAR	1311	14T1	15	16	17	18 1914	5	
6	MAR	20BV	21* FFB1	524L	23ASD	24	25	5	21* - First Faculty Feed Back 22- Ugadi 25-Monday Time Table
7:	MAR/APR	27	28	29	30	31	1	6	I-Monday Time Table
8	APR	311	4	5	6		s/oH	3	3-Mahaveera Jayunthi 7-Geod Friday 8-Friday Time Table
q	APR	10	11	12	13TA	1411	15	5	14-Dr. B R Ambedkar Jayanthi 15-Monday Time Table
10	APR	1772	1872	19	20	21	22011	5	
11	APR	24BV	25* FFB2	26ASD	27	28	29	6	25* - Second Faculty Feed Back 29-Friday Time Table
128	MAY		2	3	4	3	(H)H	4	I-May Day
13	MAY	8	Ŋ	10	11.13	1213	13*	6	13-Friday Time Table 13* - Last Working day

Total Number of working days ( Excluding holidays and Tests)=61

H	Holiday
BV	Blue Book
11,12,13	Tests 1,2,3:
ASD	Attendance & Sessional Display
DH	Declared Holiday
LTI	Lab Test 1
TA	Test attendance

Total	61
Friday	12
Thursday	12
Wednesday	13
Tuesday	12
Monday	12

K.S. INSTITUTE OF TECHNOLOGY BENGALURU - 560 109.

# K.S.INSTITUTE OF TECHNOLOGY DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGG. LIST OF STUDENTS STUDYING IN VI SEMESTER (A&B SECTIONS) FOR THE ACADEMIC YEAR 2023 (EVEN SEMESTER)

SL. NO	USN	NAME OF THE STUDENT	Gender	Date of Birth	EMAIL_ID	Student Phone No	NAME OF THE FATHER	Falther Phone No	Mathee	Mother Phone No	Sanc
1	1KS19E0026	ERAM FATHIMA	Female.	14.02.2001	eramfathimas 7@gmail.com	8618120829	AMEER IAN	98/120311105	HESHKATH UNESSA	7879390337	Δ
2	1KS19CC03M	IIIMA SWETHA S	Female	24/6/2001	Horasmetha2406@gmatt.c.	8431083655	Scholyas reddy	9731375998	Juvalsksbird	9845979327	A
3	1KS20EC001	ABROSHBK 1	MALE	3/1/2002	abhig7999@gmail.com	9148909784	JAYAVEERECOWDA	8546850616	KAHALA	6361118465	A
4	1KS20EC002	Aditi dubey	Female	16-03-2002	Addidubey2002@gmail.co	9483670316	Rakesh dubey	9901768702	Prarthona dubev	9916143291	A
5	1KS208C003	AFEEFA SHARIEFF	Female	20/10/2002	afeefa.mms@gmail.com	8722100935	MOHAMED MUSHTAQ		RAZIA SULTANA	7848070518	A
6	1KS70EC004	Ajay 8 G	Mole	26/02/2002	ajayog2662@gmail.com	9916973063	S.K Guraraj.	9535128637	Sovalli	9063878637	A
7	1K%20HCOO(W	Alcash M	Note:	03/08/2001	akashtorutto@gmail.com	0911 364 3268	Muniswamy	9538482446	lyothi	9980491696	A
8	1K520EC008	B.S.HEMASHREE	Female	24/03/2002	hemashreekadam@gmail.c um	8553847390	D.V.SHASHIDHAR	8762365058	B.S.MADHA: VI	9449.014351/ 8073662293	A
9	1KS20EC009	BHARATH H	MALE	9/2/2002	bharath3292@gmail.com	6366325889	MALLIKARJUNA G	7090600434	SUJATNA N	7019212525	A
10	1082/08/0010	Bhavitha, B	Female	19-08-2002	bhavithapriya02@gmail.co m	7676182692	Banappa, N	8763182437	Savithram ma, M	8762182437	A
11	18052060011	Bhuvaneshwari k	Pemale	23/4/2002	bhuvk106@gmail.com	79750 83231	Salakrishna reddy	9845978879	Sutha	7022608518	A
12	1852000012	Chaitanya k	Hole	16/3/2002	reddychaltanya40 i sigmail.	7204977937	K Dayananda reddy	9343779218	K Kardha	6362534647	A
13	1K520EC013	CHAITHRA K	Female	06-04-2002	chathrasomsyaji2002@gm all.com	6360927396	Nagaraj Somayaji	9964411457	Jayalakshmi Somayali	9686610271	A
14	1K5200C014	C. Sal Srujitha	Female	18/01/2002	saisrujitha 18@gmail.com	7815834446	C. Muthyalappa	9000558141	C. Radha	93904 91542	A
15	1MS200C015	C/Umadevi	Female	20/11/2002	chellagundlaumadevi14@g mail.com	6302775314	C Nagaraju	9505737078	C.Sridevi	6303475858	A
16	1892000016	Chaye, S	Female.	23/3/2002	phayes2002@gmail.com	8147025259	D. Sundaralah	9448561585	Umodevi, 5	9845198388	A
17	1KS20EC017	Chethan G	Male	30-04-2003	gchethan866@gmail.com	831041562B	Gangadhar	8971800934	Gowri	8971800934	A
18	1KS20EC018	Chethankumar 3	Male	20/07/2002	chethankomerchethu9916 ØstriefLook	9916319428	Jayanna K	8792319219	Proma H	9916319428	A
19	1KS20EC019	CHETHAN KUMAR T	Phale:	24/09/2002	chethonkumar2420@gmail.	8971023827	Thippeswarey	-	Savitho H C	7019722049	A
20	1KS20EC020	DAUSHAN K	MALE	22/04/2003	darshan2340ki@gmail.com	9148379478 9535258524	KESHAVAMURTHY E R	6363852337	SHEELA S	9535250529	A

SL.	USN	NAME OF THE STUDENT	Gender	Date of Birth	EMAIL_ID	Student Phone No	NAME OF THE FATHER	Father Phone No	Mother	Mather Phone No	SEC
21	1K\$206C021	DARSHAN KUMAR S	HALE	6/12/2003	darehu061202/Egmail.com	9902618252	SATHYAMARAYAN D		нежина	8861840262	А
22	1K2200C077	Dhamini I	Female:	02/07/2002	dhaming0289@gmail.com	9513666207	Augumenth s K	7760916277	Chibre	7700910277	A
23	1k520eC034	Dhruya Kumar S	Male	15/02/2002	dhnovekumar20199@emas .com	8073976871	Shivakumar H	9448252050	Geetha M	9886280175	A
24	1KS20EC025	Divya .N	Female	09/05/2002	divyanmunthy00@gmail.co	8310365659	Rarasimha Murthy	9945977171	Rashmi J	9972629197	A
25	1KS20EC026	Eshwar Biradar	Male	03/01/2003	eshwarbb2003@gmail.com	7588247068	Basavaraj Birada	9108697635	Sndevi Biradar	9108097035	A
26	1KS200C027	G BHAVANA PREYADARSHINI	Female	14/10/2002	thevenegorthi@gmail.com	8296196955	G JAYA PRAKASH	9481269256	SREEDEVI	8073709003	A
27	1852800028	Gogan.H.C	Hale	01/06/2002	gagar@@inho@gmeil.com	6364769333	Chandrashekhar.H.	9845440151	-G.Detter	90000000334	A
28	1KS20EC029	Gagana B 5	Female	18-09-2007	gng/mat/904604388@gmail .com	6360024748	Shivaremu	6362954628	Radimamena	8504604388	A
29:	1KS20EC000	Gandhamani € H	Fernida	07/04/2002	unganchamani@gmail.com	9741398260	Mohanraju €	9448233568	Jayanthi C	8892243982	A
30	1832000001	Gomitha R.C	Female	02:06:2002	cogamitte@gmail.com	8618246907	Chewdareddy R N	6262134121	R V Vani	7092682264	A
31	1KS20E0032	Harini k	Female	24-03-2002	kharin@10@gmail.com	9900704653	Krishna Murthy	7259806961	Latha	7259806961	A
32	1KS20EC033	Harshich gowda	Male	04/09/2002	harshilhyuwdaa04@gmoil.c	8123266819	Revisora H	9008273087	Amnuthia P	8197111238	A
33	1KS2000034	Harshitho,B.L	Female	15/6/2002	harshithabl15@gmail.com	7892192846	B.A. Lakshmisha	9845757201	K.V.chandr skela	9740154801	a
34	1K\$20EC035	Harshitha.3	Female	23-09-2002	gowdatearshithag/pgmail.co	9113684507	Jayaram	9980381766	Sukumya	9113684507	A
38	10S20EC036	HARSHITHA N	Female	22/12/2002	handiithan392@gmail.com	8884393624	K NAKUMOA	0004951994	LAKSHMI DEVI	2448617364	A
56	1KS20EC037	Inchera. F	Permole	24 01 2002	tajupc182@gmail.com	434149-1103	Popena chandra thejaswi	9738746999	Veena, B	8:1055444966	A
37	1KS20EC038	Chaltharry's krishna.J	Hale	30/04/2003	chaithanyajampula 1 (agnos) rom	7780665993	RamamurthyJ	7780665993	Sukarna.J	9705377553	A
38	185/060039	Jamuna sig	Female	16-02-2002	Jamunasq123@gmail.com	9353868269	Gongadharaich	0123309095	Suberin	7259636059	A
39	1KS20EC040	Janhmi r	Female	13-02-2003	Јатигаруничтој042@сумой.	9073964130	Rejector N	8073864130	Mangala A.	6366096700	A
40	1KS20EC041	JAYANTH. H	Male	00/02/2002	jayanth.h6174@gmail.com	9537519839	HANDMESH. M	9880767316	LAKSHMIDE VI	9141073697	A
41	18520FC042	K Jeevitha	Female	21-88-2002	jeeviths020621@gmaii.co	7699532686	Krishoa Munthy V	9740082084	Jyothi K N	7795122070	A
42	1KS20EC043	K.M.Amshumant	Male	24.04.2002	emeha.or7@gmail.com	9742095512	K.Mahantesh	9880280939	Handa,J	9900656170	A
43	1KS20EC045	Kayana.G.S	Fernale	13/06/2002	kavanags10@gmail.com	9148137238	Shreekomer.G.K	7829221728	Kalavathi M	9611439411	A

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SL. NO	USN	NAME OF THE STUDENT	Gender	Date of Birth	EMAIL_ID	Student Phone No	NAME OF THE FATHER	Father Phone No.	Hother	Mother Phone No	SEC
44	1KS20EC046	Kavya S M	Permale	20/02/2002	kasyaam12345@gmail.com	7795924125	S R MURALI KRISHNA	9019635633	VARALAKS HHT B	9844856115	٨
45	1KS20FC047	Keerthana RS	Female	16/1/2003	ksertnansbopvg2003@gma Exten	8431466578	Sriniusca	9972262282	Anitha	9980070610	A
46	1K520EC048	Kiran Dev D	Male	24/11/2002	devkirun8049@cmet.com	7411158049	Devami S	9845548049	Kolda G	9341448049	A
47	1KS20EC049	KIRAN V NABAYAN	Male	9/7/2002	kirbnnarayan/Xiigmail.com	6366955246	VEIAY KUMAR IS N	9945944229	PADMING B	9945337238	A
48	1K520EC050	RODIDELA. PRATHINA	Female	05-01-2002	kodidelaprathima30028igm all com	9392399402	K. Sudharsan	7989193663	ić, Aditakehmi	8897279908	A
49	1K520EC051	KUMAR K G	Male	02/09/2002	garreshkumar9035@gmail. com	9071942191	GANESH K.A.	9035415059	SHEELA KOS	8217863402	A
50	1652000052	Kusuma VR	Percula	27-10-2002	kasumevr2710@gmeil.com	0792090530	YR Remesh	9945357476	Shastokala KN	8861356613	A
51	1KS20E0053	H.Archana	Female	18/12/2003	archamenshan8073@gmail .com	2619661372	P.Mohim	9480155110	P.Latha	9739885584	A.
52	1KS20EC054	MADIHA	Female	23/04/2002	marsarmavitia/994pgmall. -com	58845557377	маглас-ин-нод	99907790851	- Rigwons - Recurre	9660026800	A
33	1802000000	MAHESH DIBADAR	MALE	3/18/2002	mateshbi ada 87620 yinali .com	8088718524	Shiraputra Bradar	8762779746	Mateulevi	9606619067	A
54	190520000056	MANACATRI KM	Female	15/07/2002	manaswigowda@@gmail.cu m	9148691462	HAHESH HS	9008739026	CHANDRAK ALA, TR	9008739026	
55	18S20EC057	Meghashree.M	Female	23-04-2002	ronpartingfuc/007@gmail.c	92065/12206	Hanjonatha B.N	9206532206	Roops M V	9742171972	
56	1KS20EC058	MOHAN KRISUNA K	Male	09/03/2001	muhankashnak531@ymart.	9380891045	KRISHNA MURTHY	9686225657	- LAKSHMI - DEVLT	7892926138	A
57	1KS20EC059	N.shreya	Female	25-11-2002	Shreyasrivatsa25@gmail.c	8147128278	5.Napropa	9380028278	5 Janhavi	9900411276	8
58	10520EC060	MALLANI GOWTHAMI	Female	6/6/2002	nallanigowthami2002@gm ail.com	7002681854	n SRINIVASUUU	9959669329	PUSHPAVAT HT	6303344071	В
59.	1KS20EC061	NEHA CIL	Female	01/01/2003	ramegowdam1971@gmail.	9108573852	Ramesomda	8892596410	Sheela	7795116382	0
60	1KS20EC062	MEHA HAGARAJ AJRANT	Female	11/5/2002	airani.neha11@gmail.com	9886248430	Wagraj S Airani	9535685236	Hechuri-H Almoi	9449184581	В
61	1052000063	VASANTH Kumar	Male	16-04-2002	vasanthkumar44881@gmai Leom	7483506301	P. Balakrishnareddy	7483506301	P. Ravathi	9844127112	8
62	1KS20EC064	PAYANLC	MALE	15/7/2002	pavanreddy6896@gamil.co	8317411141	C. SREVA REDDY	9740367773	C-ARUNA	9740798050	8
63	1KS20EC065	Pavani TS	Female.	20/03/2003	talluripavani76@gmail.com	2619163036	T V Sethish Debu	9972693036	- Shoona Rani T	9591713501	0
64	1KS20EC066	Pradhiyumna S Kashiyap	Male	27-02-2002	pradhyumnakashyap7642 digmail.com	9740736084	Srinath C	9980412184	K N Malini	8861476084	0
65	1ks20ec067	Praween D B	Hale	17-07-2002	bpraveen.1707@gmail.com	8618964201	Basavaraju D P	160	Sujatha C	9886926255	В
66	1852000066	Prema G	l'emnie	13/05/2003	gopalsusheelareddy@gmail .com	0951273603	Gopel reddy	9611329572	Susheda	8971472513	0

NO.	USN	NAME OF THE STUDENT	Gender	Date of . Birth	EMAIL_ID	Student Phone No	NAME OF THE PATHER	Father Phone No	Mother	Mother Phone No	SEC
67.	1K520E0069	PREYANKA.H.C	Female	15/7/2002	privanka.hc792@gmail.co	9663826792	CHANDRA KANTH	9902296912	PAVITHRA K. R.	8861/58/18	-10
68	1KS306C070	PROYANKA K	Female	1/2/2002	Hpriyanka93033@gmail.co	6362989867	Krishna K J	9595047009	Rathmeroma	7019023020	0
69	1KS20EC071	Priyanka_M	Female	07-05-2002	priyankamath/07@gmail.co	R217659122	R. Mariyappan	9448784907	R. Natheiste	2075224734	
70	1K520EC072	Pushpa DT	Female	01-04-2002	pushpadt65@gnat.com	7463776566	Thimma reddy DA	9535135687	Sridovámni a KR	9964160640	85
71	1KS206C073	RANUL KRISHNAN V	39abi	12/4/2001	rkv122001@gmail.com	9490123426	VENCO KUMAR K	3443444403	BRARATHI G II	9449444520	a
72	1KS20EC074	RAHUL R	MALE	8/9/2001	rahulmmu@gmail.com	8431011477	RAMSS PANISSTH	9845904555	SURA	9535540733	8
73.	1KS20EC075	BAJATH K ACHAR	MALE	14/8/2002	rajethkechar143@gmali.co	9380662309	CRISHNA MURINY CG	9740123471	VASANTHA K.R.	044005050040	
74	1R52060076	Ballshith NS	Male	17/01/2002	nmrakshith040@gmail.com	69632115351	Maregowda	8296142734	Bhagya	8296142734	8
75:	1053000077	RAKSHITH R	Male	05/01/2002	r49862303@gmail.com	7892065979	RAJASHEKHAR H.S	9990601937	SAROJA, R	7892065979	8
76	1852050078	Balshitte A	Female	31-12-2002	rakshirhaenthony Lidigmad.	8147257648	Anthony Rag C	90003306564	Varidhana Harv	8073485262	6
77	1KS20EC079	RAMESHWAR	MALE	22/7/2001	makrerameshwar@gmail.	7411390961	UMAKANTH	9972331377	SATHYABH		В
7N	1882/08/0000	Ramya T	Female	1/12/2002	ramyatramyat3@gmail.co m	6363683042	Thulasi rama. C	9886672905	Chinrapapa	7259443133	В
79	1852050082	Botrit A.k.	Malu	24/09/2003	rohitkanni24@gmail.com	9663921545	Ashok	9880418356	Nagamma	9110463042	В
80	1K520EC083	S Arun Kumar.	Male	13/01/2003	rebulerunkumer Sithgmeitsc.	9686776425	SATHYA MURTHY A	9108820145	Bharathi S	9480515998	В
61	1052000004	Saction NIN	Male	13/07/2002	sachimmagol@gmail.com	8431949810	Mangunach N	9972027572	Heinjida	2742358936	8
82	1KS206C085	SADHANA.SAINI VAS	Female	06/05/2002	sadhana.onnivas6@gmail.c	6361916229	SRIMIVAS R.S	9108587782	UMA SRINI VAS	9100207469	0
63	1852060007	Sandcep Y H	Mole	1-7-2003	deepuyhdeepuyhiligmail.co m	9741400210	Hanumantharayappi a Y N	9901889154	Umadevi R	9880711052	0
84	1K520EC989	Sanjana,G	Female	29-06-2003	sanjana.gurunaths@gmail.	0686424323	Guninath.5	9686474373	Priyedanshi rii.G	0277201905	0
85	1KS20EC091	Sanjana T Gerikar	Female	14-09-2002	sanjanutgadaanggevut.en m	7411745642	Dippenna B gadikar	9900137102	Raşaslıri Y Gədikar	7411724316	0
56	1K320EC09Z	Shekthi Anbezhagen H	Male	25/09/2002	antiumuniyagua@grisut.co in	6363195088	Мынгуарра К.	9980122908	SHVICH	5844201698	8
87	1KS200C003	Sharath M	Male	18/09/2002	Sharathm568-1@gmarl.com	8050032264	Hahadova S	9480075656	Leelavathi B.M.	9900237258	n
88	1KS20EC094	SHASHANK S	Male	4/5/2002	shashanksiddəm)2002@gm ad.com	NN67116224	Siddərəju K.	9535220016	Vasantha	7975633792	п
69	1K520CC095	SHIVAREDOV B	MALE	10/1/2001	shivareddyta56/@gmail.co m	9686526103	AMARANATH.	9731055616	SUJATHA	7349139651	8

SL. NO	USN	NAME OF THE STUDENT	Gender	Blith	EMAIL_ID	Student Phone No	NAME OF THE FATHER	Father Phone No	Mother	Mother Phone No	SEC
90	1852060006	Shreye III Pugmanabba	Fernale	01/06/2002	streyati\$32@gmail.com	262686925H	PACMANABHAIAH K	9902308548	HEMALATH A.K.R.	0743043590	0
91	1KS20EC097	Shreyas M.S.	Male	21/08/2002	shremsDSIpgmail.com	8050289057	Shankarappa M R	9845447704	Sawtragya G S	9900379104	ю
92	1K520EC098	Shroyas p.s.cao	Male	27/09/2002	sshreyas576@gmail.com	+916364557	Sudhakar m p	9343635454	Summ bis	8341229090	a
93	1852000099	SHWEYA DEEPAK	Female	20/10/2002	shwctakunichi20@gmvil.co mi	9482048205	DEEPAK K S	994527786	WARE H	9945218760	D
94	1KS20EC101	SONIKA.R	Female	11/12/2002	Snnksgk1@gmail.com	9980733590	Rajesh.K	9916897160	SumathLT	9986849682	8
95	DKS20EC102	SUMANA N	Female	20/6/2002	sumenerayar200 umal.cu	8884199651	K Narayena	9003342083	Leelavathi	9730722000	n
90	1852000103	SUMUKHA.S	Mole	04/01/2/003	sumukho4012003@gmail.c	09380201638	SUBRAHANYA.25	9741191225	USHA.H	9591248708	U
97	1KS20EC104	SURAKSHA.N.	Female	06-05-2002	suraksta.nagaraj@gmail.c	9108675849	NAGARALM	9845809413	SHIVARATH NA	9632459970	В
98	1KS20EC105	Tanun Prasanna	Male	24/05/2002	tarunp2405@cmail.com	06660233065	5 Prasanna Kumar	8805236881	Government 8.5	7722007910	В
99	1KS20EC100	TEJAS N REDOY	Bale	10/07/2002	reddytejas18@gmail.com	9606559319	В пагруапаржатту	9980178595	B.	8364743051	a
100	1KS200C107	T.GERESHCHOWD	Hale	13/08/2003	thummalagirishthowdary20 03/Fomall.com	6304887699	T.SRINIVASULU	9500000945	T.SUDHA	6304887699	В
101	1K52UeC108	uday C H	Note:	16/04/2002	udaych610@gmutLount	8660434249	Nauenh C.H.	9900138435	Starada.	9513820966	8
102	1KS20EC109	UUDWAL NAIDU	Male	13-05 -2001	kandraujjwaksidu16@gma iLcom	9353513629	K H NARAYANA REDOY	9663574352	LAKSHMI DEVI	7255488464	п
103	1K\$20EC110	VAISHNAVI A	Female.	26/12/2001	vaidinavibhoradwaj1817(h gmail.com	7975440553	Alay H. A	8217586/012	Suma A	9806957673	В
104	18S/05C111	Vashnavi.V.H	Female	1/09/2002	vaishnavivadagoontiigmati.	8660383450	Harish.V.5	9663878282	Gayathn.K.	8904275341	8
105	1XS208C112	W Yarsha	Female	16-04-2002	varshanachar@gmail.com	9740644194	S 5 Noteshekere	9980465195	Hongala Hadhumath	3443732744	8
106	1KS20EC113	Vijeyalakshmi K	Female.	.05/04/2002	vijayələkshmik025@gmail.	7349262315	Kumaraswamy R	9448169331	Annapuma N.S.	9491037902	В
107	1KS20BC114	VINAY S P	Male	06-05-2002	Wnaysp6522@gmail.com	8904305025	S M PUTTEGOWDA	9972225344	BHW5YA JYOTHI	6361875036	8
108	1%S20EC115	VINAY SAGAR V	Male	17-01-2003	wasaninay1763@gmal.co	8130043445	VILAS V ALUK	9900020767	PUSHPA G DESHPAND	9620350096	6
109	1K\$20ECL16	VINEETH M S	Male	21/11/2003	Hsvineeth/2010/gmail.com	+912975657 991	Somashekar M.N	9448798847	Mamatha K	9008006551	8
110	1KS20EC117	YASHILAA.S	Female	28/05/2002	yashilaa(12h)gigmail.com	7975689781	S N SHANKAR RAO	9845545398	MALAIHER N	9980741101	В
111	1KS20EC118	YASHWANTH Y	Hale	07/11/2003	vashwanthshetty281@yma Leam	9535056009	Yogesh T	6361313577	Jayralakshmi	0070107255	В
112	1KS21EC401	SUDEEP V	Hale	3/3/2003	sudecpv152@gmail.com	0000665752	VENEATESH REDDY	8453040292	SRIVDEVI	6362002203	8

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90	1K520EC096	Shreye ff. Nadmarebba	Remale	01/06/2002	shreyah532@gmail.com	26268892511	PADMANABHAIAH K	9902308548	HEMALATH: A K R	0743043500	0
91	1KS20EC097	Shreyay M S	Male	21/08/2002	shremsØ8@gmail.com	8050289057	Shankarappa M R	9845447704	Sawthagya, G.S.	9900379104	В
97	1K520EC098	Shreyas p.s. rao	Male	27/99/2002	sidneyas576@gmail.com	+916369557	Sudhakar in p	9343835454	Skirin bis	9341229090	ø
93	1KS20EC099	SHWETA DEEPAK.	Female	20/10/2002	shwatakunichi2119 gmail.co m.	9482046205	DEEPAK K S	964522786	WARE H	9945218760	U
94.	1KS20EC101	SONIKA.R	Ferrole	11/12/2002	Sonkigk1@gmail.com	9980733590	Rajesh.K	9916897160	Sumathi.T	9986849682	В
95	18520EC102	SUMANA N	Female	20/6/2002	sumenerayar 200 yınat.cu	8884199651	K Narayera	9003342083	Leekwathi M	9730722000	D
96	1852000103	SUMUKHA.S	Hale	04/01/2003	sumukho4012003@gmail.c	09390201638	SUBRAHANYA.2S	9741191725	USHA.H	9591248708	U
97	1KS20EC104	SURAKSHA.N	Female	06-05-2002	suraksha.nagaraj@gmail.c	9108675849	NAGARALM	9845809413	HTARAUHU AR	9632459970	В
08	165206C105	Tanun Prasanna	Male	24/05/2002	tarung2405@cmeil.com	06660233065	5 Prasanna Kumar	8805236881	Government 8.5	7722007910	В
99	1KS20EC100	TEJAS N REDDY	Hele	10/07/2002	reddytejas18@gmbil.com	9606559319	В погруппорматту	9680178585	B litterestesseet	6364743051	п
100	1852000107	T.GIRISHCHOWD ARY	Hale	13/08/2003	thummaagetshchowdary20 03/Pomeit.com	6304887699	T.SRINIVASULU	9502022945	T.SUDHA	6304887699	В
101	1K520E0108	uday C H	Hale -	16/04/2002	udaych619@gmail.com	8668434249	Nagenh C.H.	9900138435	Sisterada:	9513820966	8
102	1KS20EC109	UJJWAL NAIDU	Note	13-05 -2001	kandraujj valnaidu L6¢ gma Leom	9353513629	K H NARAYANA REDOY	9663574352	LAKSHMI DEVI	7259488464	
103	1KS20EC110	VAISHNAVI A	Female.	26/12/2001	vaishnavibharadwaji1817(f) gmail.com	7975440553	Alay H.A	8217586/02	Suma A	9806957673	В
104	18SZ0EC111	Vasanavi.V.H	Female	1/09/2002	vaishnavivadagoon@gmail.	8660383450	Harlsh,V.5	9963878282	Gayathri.K.	8904275341	6
105	1XS208C112	W Yarsha	Female	16-04-2002	varshanachar@gmail.com	9740644194	#, 5 Mintoshekoro	9900465195	Hongala Hadhumath	3443732744	R
106	1KS20EC113	Vijoyalakshmi K	Female.	05/04/2002	vijayalakshmik025@gmail. com	7349262315	Kumaraswamy R	9448169331	Annapurna N 5	9481037802	В
107	1K520EC114	VINAY S P	Male	06-05-2002	Wnaysp6522@gmail.com	8904305025	S M PUTTEGOWDA	9972225344	BRWGTA	6361875036	8
108	1%S206C115	VINAY SAGAR V	Male	17-01-2003	swamvioay1763@gmail.co m	8130043445	VILAS V ALUK	9900020707	PUSHPA 6 DESHPAND	9620350096	8
109	1KS20ECL16	VINEETH H S	Male	21/11/2003	.Hsvineeth/20@gmail.com	+917975657 991	Somiestekar M.N	9446798847	Mamatha K. S	9008006551	. 8
110	1KS20EC117	YASHILAA.S	Female	28/05/2002	yashilaa028@gmail.com	7975689781	S N SHANKAR RAO	9845545398	MALASHER N	9980741101	В
111	1KS20EC116	YASHWANTH Y	Halo	07/11/2002	vashwanthshirtty281 Öymler Loom	9535056009	Yaigesh T	6001313577	Jayralakshmi	6073107253	D
112	18521EC401	SUDEEP V	Hole	3/3/2003	sudespv152@gmail.com	0000665752	VENKATESH REDDY	8453040292	SRIVDEVI	6362032203	8

9.50



### K.S. INSTITUTE OF TECHNOLOGY, BANGALORE -109 DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING INDIVIDUAL TIME TABLE FOR THE YEAR - 2023 ( EVEN SEMESTER)

W.E.F.: 20/3/2023

ACCOUNTS AND	THE CALCELY	COLUMN PROPERTY OF THE PROPERT	A 0				DESIGNATION	PROFESSOR	
PERIOD		Strong of Lorent	10.20 AM	3	4	12.25 PM	5	6	7
TIME DAY	9.25 AM	9.25 AM 10.20 AM	10.35 AM	10,35 AM 11,30 AM	11.30 AM 12.25 PM	1.15 PM	1.15 PM 2.10 PM	2.10 PM 3.05 PM	3,03 PM 4,00 PM
MON	PYAP (180C046)-B				2	r.	PYAP (18EC646) -A		
TUE	PVAP (1800/646)-B		T E A	PYAP (18DC646) -A		u N C			
WED			n R	PYAP (18EC646) -31					
тни	PYAP (38EC046)-A	-	K A K		PYAP (5800046) -B	1			1111
FRI		PYAP (18EC646)-A				ĸ			1611

	Subject Code	Subject Name	Sem	Section	Work Load
Subject 1	18BC646	Python Application Programming (Professional Elective-1)	VI	A&B	8
Mini project	18ECMP68	Mini-Project (Guide )	VI		2
Project	186CP83	Project Work Phase -2 - (Guide )	VIII		2
laternship	18ECISS	Internahip (Guide)	VIII		2
		ADDITIONAL WORK: MENTORING	AND OTHERS		
		TOTAL LOAD=14 Hrs/We	ck	- 1	

Time Table Co-ordinator

HEAD OF THE DEPARTMENT Dept. of Electronics & Communication Engg K.S. Institute of Technology Bengaluru - 560 109

K.S. INSTITUTE OF TECHNOLOGY SENGALURU - 560 109.



### K.S. INSTITUTE OF TECHNOLOGY, BANGALORE -109 DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING VI SEMESTER TIME TABLE FOR THE YEAR 2023 (EVEN SEMESTER) CLASS TEACHUR - Dr. Robbs N

W.E.F. (20/3/2023)

CLASS ROOM: OB LH-204

SEC 2 "A"						AND DESCRIPTION OF THE PARTY OF	- to be a sense of the		
PERIOD TIME DAY	1 8.39 AM 9.25 AM	9,25 AM 19,20 AM	10.20 AM 10.35 AM	3 1835 AM 1139 AM	11.30 AM 12.25 PM	12.25 PM 1.15 PM	3 1,35 PM 2,10 PM	0 2.10.P04 3.05 PM	3,05 PM a.09 PM
MON	ES (18E062)	NIWA (LEECTO)	Y	(18BC94)	95A (1805852 y 90M(16ME653)	L.	(1800646)	Т	Ť
TUE	DC (18E061)	DSA (1803692 )/ SCM(18ME650)	3	PYAP (1890616)	* MWA (18EC63)	Š Č	-	LAB (1807-166) - 2 M LAB (1807-167)	The second second second second
WED	ES LAB (BECL66) AU COM LAB (BECL67)-A2				DSA (FROSASCI)/ SCM(TRMERSS)	# 1	ES (18EC62)	EXC (18ECol)	
THE	PYAP (18EC646)	ES (18EC87)	"в. К	MWA (180063)	DC (ISECSI)			LAB (18601.66)-/ MILAB (18601.67	
FRI	DSA (1805652 )/ 5036 (1805653)	The second secon	A K	MWA (18EC63)	(18BC62)	L.	€ N	ni-Project (186CNO	(68) <del></del>

ob-Code	Sublect Name	Faculty Name
REC@1	Digital Communication	Dr. Rekha N
BEC61	Embedded Systems	Dr. Sodenhow B
SEC63	Microwave and Americas	Dr. Disesh Komar D S
8DC646	Pythest Application Programming (Professional Fluctive-1)	Dr. Surekita B
BCS652	Repoduction to Data Structures and Algorithms (Open Elective Elective-A)	Dr. Vijuya Lakshmi M
RME653	Supply Chain Management (Open Elective Elective-A)	Mis . Bhargavi Ammit
86CL66	Embedded Systems Laboratory	Dr. Sadamhan BA.L. A3, Dr. Duselt-Kumur D 5A1, A2, A3. Odr. Drawins AA1
BECLA7	Communication Laboratory	Dr. Rekha N - ALA3, Dr. Poeps 6, A1, A2, A3 Mrs. Blurgavi Arounti- A2
ISECMP08	Min-Project	Dr. Chroda V Reddy , Mrs. Vishaimi Divokar
	latemship (1)	September 2

N.S-1-Time Table Co-ordinator HEAD OF THE BEPARTMENT Out of Blockward Dominutes to Enge K.S. Institute of Technology Bengaluru - 550 109

(Topopol) K.S. INSTITUTE OF LECHNIQUOUS BENEFICIARY - 550 102.



# K.S. INSTITUTE OF TECHNOLOGY, BANGALORE -109 DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING VI SEMESTER TIME TABLE FOR THE YEAR 2023 (EVEN SEMESTER)

W.E.F. ± 20/3/2023

CLASS TEACHER : Mr. Provin A

CLASS ROOM: OB LIT 205

SECTAL						CLASS MOON	1 : OB LH 205	
PERIOD TIME DAY	1 830 AM 923 AM	9.25 AM 19.20 AM	10.20 AM 10.35 AM	1035 AM 1130 AM	4 11.30 AM 12.25 PM	12.25 PM 1.15 PM	1.15 PM 2.10 PM	6 7 2.10 PM 3.115 PM 3.05 PM 3.00 PM
MON	PYAP (18EC646)	ES (18EC62)		MWA (18EC63)	DSA (100S682 )/ SCM(18ME653)	i i	16-	1 ARCINGT AKE-RS / M LAB (ISECL 67) -RR
TUE	PYAP (18E0646)	DSA (18CS682 )/ SCM(18ME653)	k X	1X: (18BC61)	% ES (180062)	N C	< ── Min	ni-Project (180CMP68)
WED	MWA (18EC63)	(ISBC61)	is in	PYAP (1850546)	DSA (180S652.)/ SCM(18M6653)			LAR (18971.6A) - B1 / M LAB (18971.67) - B2
THU	EN (18EC82)	(18EC51)		MWA- (18EC63)	PYAP (18EC045)	k L	MIWA (ISEQUE) - T	т
FRI	DSA (18CS652 )/ SCM(18ME653)	The second second second second	К	FS (185C62)	DC (DEXX)(1)	À		LAB (18ECL66) - B2 / M LAB (18ECL67) -B3

Sub-Code	Subject Name	Faculty Name
TRECK!	Digital Communication	Dr. Rekliw N
100002	Embedded Systems	Mr. Proven A
UECE	Microwowe and Antennas	Dr. Chanda V Reddy
LKEC 646	Python Application Programming: (Professional Electives 1)	Dr. Swekhi B
1803632	Introduction to Data Structures and Algorithms (Open Elective Elective-A)	Dr. Vijaya Lakshmi. M
18ME653	Supply Chain Management (Open Elective Elective-A)	Mrs . Rhargavi Ananth
IRECL66	Enhelded Systems Laboratory	Dr. Sudurshan, B65, Dr. Dinesh Kumar D S, -61,82, 83 Mr. Prayeen A -01,82
180 CL67	Communication Laboratory	Dr. Reklas N-B1, Dr. Pooja S - B1, B2,B3 Mos. Bhargavi Anaesh - D2, D3
тивсмичи.	Mini-Project	Dr. Christin V Reibby , Mrs. Vichalini Divalor
	Internation	

Time Table Co-ordinator

HEAD OF THE WEARTMENT Dost of Electronics & Communication Engo K.S. Institute of Technology Bengaluru - 589 109

K.S. INSTITUTE OF TECHNOLOGY BENGALURU - 500 100.

### SYLLABUS

### PYTHON APPLICATION PROGRAMMING

As per Choice Based Credit System (CBCS) and Outcome Based Education (OBE)

Course Code	18EC646	CIE Marks	40
Number of Lecture Hours/Week	04	SEE Marks	60
Total Number of Lecture Hours	40 (8 Hours / Module)	Exam Hours	03

### CREDITS - 03

### Course objectives: This course will enable students to:

- Learn Syntax and Semantics and create Functions in Python. Handle Strings and Files in Python.
- Understand Lists, Dictionaries and Regular expressions in Python.
- Implement Object Oriented Programming concepts in Python
- Build Web Services, Network and Database Programs in Python.

### Module-1

Why should you learn to write programs, Variables, expressions and statements, Conditional execution, Functions

### Module-2

Iteration, Strings, Files

### Module-3

Lists, Dictionaries, Tuples, Regular Expressions

### Module-4

Classes and objects, Classes and functions, Classes and methods

### Module-5

Networked programs, Using Web Services, Using databases and SQL

### Course Outcomes: After studying this course, students will be able to:

- 1. Examine Python syntax and semantics and be fluent in the use of Python flow control and functions
- 2. Demonstrate proficiency in handling Strings and File Systems.
- Create, run and manipulate Python Programs using core data structures like Lists, Dictionaries and Regular Expressions.
- 4. Interpret the concepts of Object-Oriented Programming as used in Python.
- Implement exemplary applications related to Network Programming, Web Services and Databases Python.

### Textbooks:

- Charles R. Sseverance, "Python for Everybody: Exploring Data Using Python 3", 1 Edition, Create Space Independent Publishing Platform, 2016 (Chapters 1 — 13, 15).
- Allen B. Doey, "Think Python: How to Think Like a Computer Scientist", 2n Edition, Green Tea Press, 2015 (Chapters 15,16,17)

### Reference Books:

- Mark Lutz, "Programming Python", 4th Edition, O'Reilly Media, 2011. ISBN-13z978-9350232873.
- Wesley J Chun, "Core Python Applications Programming", 3rd Edition, Pearson Education India, 2015. ISBN—13: 978—9332555365.
- Reema Thareja, "Python Programming using problem solving approach", Oxford university press, 2017

### Assignments:

- 1. Written Assignment
- 2. Written Assignment
- 3. Mini Projects



### K. S. INSTITUTE OF TECHNOLOGY BANGALORE DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING LESSON PLAN 2022-23 EVEN SEMESTER

COURSE INCHARGE

; Dr. Surekha Borra

COURSE CODE/TITLE

: 18EC646/ Python Application Programming

YEAR/SEMESTER/SECTION

: 4/6 / A

RRANCH

: ECE

SL No.	Topic to be delivered	Mode of Delivery	Teaching Aid	No. of Periods	Cumulative No. of Periods	Proposed Date
		Module 1: INTRO	DOUCTION			
3.1	Introduction: Why should you learn to write programs? Computer hardware architecture	L+D	BB+PFT	1	1	20/3/23
2	Lerminology: Interpretor and compiler, programs, building blocks, Debugging	L+D	BB+PPT	1	2	21/3/23
31	Variables, expressions, and statements	L+ D	BBAPPT	1	a ·	23/3/23
.4:	Variables, expressions, and statements	L+D	BB+PFT		4	24/3/23
5	Variables, expressions, and statements. Exercises	L+0	BB+PPT	1	S	25/9/23
6	Variables, expressions, and statements: Exercises	1+0:	BB+PPT	(1)	6	22/3/22
70	Conditional execution	1+ 0	BB+#PT	1	7	28/3/23
8	Conditional execution: Exercises	L+D	BS+PPT	1	8	30/3/23
9	Functions	1+0	DO+PPT	3	9.	31/3/23
10	Functions: Exercises	L+D	BB+PPT	1	10	1/4/23
		Madule 2: ITE	RATIONS			
11	Iteration	L+D	68×PFT	1	13.	4/4/23
12	Itoration: Exercises	L+D	55+PPT	1	12.	G/4/23
13	Strings	L+D	DB4PPT	1.	13	10/4/23
14	Strings: Exercises	L+0	BB+PPT	- (1)	14	11/4/23
15	Strings: Exercises	.L+0	88+PPT	1	15	13/4/23
16	Files	L+O	BB+P97	1	16	15/4/23

17	IA: 1.				17	28/4/28
100	Files: Exercises	L+O	88+554	1	38	28/4/25
10	Files; Exercises			1	29	21/4/23
		Module	D: LISTS			
20	Usts	L+D	BB+PPT	1	202	24/4/23
21.	Lists: Exercises	L+D	884993	1	21	25/4/23
23.	Lists: Seseroses	1+0	BB+PPT	1.1	22	27/4/23
23	Dictionaries	L+D	88+PPT	1	23	28/4/23
24	Dictionaries, Exercises	L+D	BB+PPT	1 1	24	29/4/23
25	Dictionaries: Exercises	L+D	88±00T	1	25	2/5/23
26	Tutples	£+B	* SO-PPT	1	26	4/5/23
27	Tiaples: Exercises	L+D	88+PPT	1	21.	5/5/23
28	Regular Expressions	L+D	BB-PPT	1	28	8/5/23
29	Regular Expressions: Exercises	L+D	BB+PPT	1	20	9/5/29
		Module 4: CLASS	ES AND ORIECTS			
90	Classes and objects	L+D	BB+PPT	1	50	11/5/23
37	Classes and objects	£+D	B8+PPT	1	32	12/5/23
32	Classes and objects: Exercises	1+0	88+991	.1	32	13/5/23
33	Classes and Functions	L+D	BB+PPT	1	33	25/5/23
34	Classes and Functions: Exercises	L+D	BB+PPT	21	34	10/5/23
35	Classes and Methods	LaD	BB+PPT	1	35	18/5/23
36	Classes and Methods: Exercises	L+D	BB+PFT	1	36	19/5/23
		Module 5: NETWC	RKED PROGRAMS			
37	Networked programs	L+D	BB+PPT	1	37	22/5/23
38	Nétworked Programs: Exercises	LeO	вв+рит	1	38	23/5/23
99	Using Web Services	L+D	88+PPT	(1)	39.	25/5/23
40	Using Web Services: Exercises	L+D	88+PFT	1	40	26/5/23
41	Using Web Services: Exercises	L+D	884991	1	43	27/5/22
42.	(A-2).				42	30/5/23
43	Using databases Exercises	L+D	88+PPT	1	43-	1/6/23
44	Using databases Exercises	L+D	88+PPT	1	44	2/6/23
45	SQL	L+D	BB+PPT	1	45	5/6/23
46	SQs, Exercises	LID	88+PPT	1 1	46	6/6/23
47	Additional Exercises	L+D	88+PPT	- 1	47	8/6/23

48	Additional Exercises	LaCI	BB+PPT	1	48	0/6/33
49	Additional Exercises	L+D	50+447	1	49	12/6/23
50	Additional Exercises	L+0	BBHPPT	12	50	13/6/23
51	Additional Exercises	L+D	BB+PPT	1	-50	15/6/20
52	Additional Exercises	L+D	BB+PPT	1	52	16/6/23
53:	Additional Exercises	L+D	DD+PPT	1	33	19/6/23
34	Mini-Project Presentations	L+D	BB+PPT	1	54	20/6/23
55	Mini-Project Presentations	L+D	BBHPPT	1	55	22/6/23
56	Mini-Project Presentations	L+D	BBHTT	1.	56	23/6/23
57	Mini-Project Presentations	LHD	D5+P9T	1	57	24/6/23
58	Mini-Project Presentations	1.+13	STANFORT	1	58	26/6/23
50	Mini-Project Presentations	L+D	BBIPPT	1	59	Z7/G/23
60	Mini-Project Presentations	£#D	88+PPT	1	60	30/6/23
61	10-3				- 61	4/7/23
62	Mini-Project Presentations	L+D	BB-PPT	1	62	6/7/23
63	Mini-Project Presentations	L+D	BB+PPT	1	63	7/7/23
64	Mini-Project Presentations	L+D	BBAPPT	1	64	10/7/23

- Charles R. Steverance, "Python for Everybody: Exploring Data Using Python 3", 1 Edition, Create Space Independent Publishing Pletform, 2016 (Chapters 1 13, 15).
   Allen B. Do ey, "Think Python: How to Think Like a Computer Scientist", 2n Edition, Green Tea Press, 2015 (Chapters 15, 16, 17).

### Reference Books:

- 1. Mark Lutz, "Programming Python", 4th Edition, O'Reilly Media, 2011 (56N-632976-9350232873.
- Wesley J Chun, "Core Python Applications Programming", 3rd Edition, Pearson Education India, 2015. ISBN 13: 978—9332555365.
   Reema Thareja, "Python Programming using problem solving approach", Oxford university press, 2017

### Web Materials:

W1: https://optel.ac.in/courses/106106145/

W2: https://nptel.ac.in/courses/117106113/34

W3: https://nptellac.in/courses/106105166/26

Details of the teaching aids:

Block Board and Power Point Presentations, Python IDE, Jupyter Noteboy

Modulé Coordinator



### K. S. INSTITUTE OF TECHNOLOGY BANGALORE DEPARTMENT OF ELECRONICS & COMMUNICATION ENGINEERING LESSON PLAN 2022-23 EVEN SEMESTER

COURSE INCHARGE

: Dr. Surekha Borra

COURSE CODE/TITLE

: 18EC646/ Python Application Programming

YEAR/ SEMESTER/SECTION : 4/6/B

BRANCH

: ECE

SL No.	Topic to be delivered	Mode of Delivery	Teaching Aid	No. of Periods	Cumulative No. of Periods	Proposed Date
		Module 1: INTRO	DOUCTION			
1	Introduction: Why should you learn to write programs? Computer hardware architecture	L+D	BB+FPT	1	3.	20/3/23
2	Terminology: Interpreter and compiler, programs, building blocks, Debugging	L+D	BB+PPT	1	2	21/3/23
3	Variables, expressions, and statements	L+ D	BB+PPT	-1	3	23/3/23
4	Variables, expressions, and statements	L+D	BB+PPT		4	27/3/23
5	Variables, expressions, and statements: Exercises	L+D	BB+PPT	1.	5	28/3/23
6	Variables, expressions, and statements: Exercises	1+0	00+PPT	1	6	29/3/23
7	Conditional execution	L+ D	00+PPT	1	7	30/3/23
8	Conditional execution: Exercises	LiD	BBIPPT	1.	8	1/4/23
9	Functions	LeD	BBYPPT	1	. 9	4/4/23
10	Functions: Exercises	L+D	8894461	1	10	5/4/28
		Module 2: (TE)	RATIONS		annese Inne-	
11	tteration:	140	86+991	1	33	6/4/23
12	Iteration: Exercises	14/0	88+881		412	10/4/29
33	Strings	I+D	BB+PPT	A STATE OF		11/4/23
14	Strings: Exercises	1.40	BEHPPT	1.	34	12/4/25
15	Strings: Exercises	140	BB+PPT		15	13/4/23
16	Files	L+D	DO+PPT	1	16	15/4/33

1.7	(A-1				17	18/4/23
18:	Files: Exercises	L+D	66+PPT	3	18	20/4/23
19	Files: Energises			1	19	24/4/23
		Module	3: USTS			
20	Lists	1+D	88 <b>-</b> PPT	1 1	20	25/4/23
21	Lista: Exercises	1+D	884997	1	-21	26/4/23
22	Livis Exercises	L+D	SS IPPT	-1	22	27/4/23
23	Dictionaries	1+0	55+PPT	1	23	2/5/23
24	Dictionaries: Exercises	1+D	88+PP7	T.	24	3/5/23
25	Dictionaries: Exercises	1+D	BB+PPT	1	25	4/5/23
26	Toples	L+D	SB+PPT	1	26	8/5/23
27	Tuples: Exercises	L+D	1004991	1	27	9/5/23
28	Regular Expressions	L+D	BB+PPT	3	28	10/5/23
29	Regular Expressions: Exercices	140	BB4PPT		29	11/5/23
		Module 4: CLASS	IS AND OBJECTS			
30	Classes and objects	L+0	BB+PPT	1	30	19/5/22
31	Classes and objects	L+O	B0+PPT	1	51	16/5/23
32	Classes and objects: Exercises	L+O	BB+PFT	1	4.7	17/5/23
33	Classes and Functions	L10	26+PPT	1	33	18/5/23
38	Chooses and Functions: Exarcises:	L+D	BB*PPT	1	34	22/5/23
35	Classes and Methods	L+D	BBAPPT	1	35	25/5/23
36	Classes and Methods; Exercises	L+D	DOS+PPT	1	36	24/5/29
		Module 5: NETWO	ORKED PROGRAMS			
37	Networked programs	L+D	88+PPT	1	37	25/5/23
38	Networked Programs: Exercises	L+D	88+99T	1	38	27/5/23
39	M-2:					30/5/23
40	Using Web Services	L+D	58+661	1	40	1/6/23
41	Using Web Services: Exercises	L+D	BB+PPT	_ 1	41	5/6/23
42	Using datahases Exercises	1+0	884991	1	42	6/6/23
43	Using databases Elveroises	L+D	BB+PPT	. 3	43	7/6/23
44	Using databases Everdises	L+O	BB+PPT	31	44	8/6/23
45	901	LeD	88+991	1	45	10/6/23
46	SQL Exercises	L+0	RRAPPT	1	46	12/6/23
47	Additional Exercises	L+0	BG+PPT	1	47	13/6/23

436	Additional Exercises	140	884PPT	1	48	14/6/23
49	Additional Estatoses	1.40	HH+PPT .		49	35/6/22
90	Additional Exercises	£+D	DO+PFT	1	50	19/6/23
11	Additional Exercises	LaD	00+PPT	1	51	20/6/23
12	Additional Exercises	L+D	BB+PPT	1	52	21/6/29
53	Additional Exercises	L+D	BB+PPT	1	53	22/6/23
54	Mini-Project Presentations	L+D	DO+PPT	1	54	24/6/23
55	Mini-Project Presentations	L+D	BB*PPT	1	55	26/6/23
56	Mini-Project Presentations	L+D	BB+PPT	1 1	56	28/6/23
57	IA-3				57	4/7/23
58	Mini-Project Presentations	140 2	BB+664	3.	58	6/2/28
50	Mini Project Presentations	L+D	BB+PPT	- X	59	8/7/23
60	Mini-Project Presentations	6.40	88+PPT	1	60	10/7/23

- 1. Charles R. Seeverance, "Python for Everybody: Exploring Data Using Python 3", 1 Edition, Create Space Independent Publishing Platform, 2016 (Chapters 1 13, 15).
- 2. Aften 8. So-ey. "Think Python: How to Think Like a Computer Scientist", 2n Edition, Green Tea Press, 2015 (Chapters 15,16,17)

### Reference Books:

- 1. Mark Lutz, "Programming Python", 4th Edition, O'Rolly Modia, 2011 ISBN 832978-9350232873.
- Wesley J Chun, "Core Pythan Applications Programming", 3rd Edition, Pearson Education India, 2015. ISBN -13: 978-933255585.
- Reema Thareja, "Python Programming using problem solving approach", Oxford university press, 2017

### Web Materials:

W1: https://notetac.in/courses/300106345/

W2: https://notelac.in/courses/117106113/34 W3: https://notelac.in/courses/106105166/26

Details of the teaching aids:

Black Board and Power Point Presentations, Python IDE, Jupyter Notebook



### **KSIT Bangalore**

# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ASSIGNMENT-1

Academic Year	2022-2023					
Batch	2020-2024					
Year/Semester/section	III/VI/A & B					
Subject Code-Title	18EC646-Python	18EC646-Python Application Programmin				
Name of the Instructor	Dr.B.Surekha	Dept	ECE			

Assignment No: 1 Total marks:30
Date of Issue: 21/3/2023 Date of Submission:15/4/2023

Sl.No.	Assignment Questions	K Level	со	Marks
1.	<ul> <li>a) Utilize Python operators and their precedence to build a python program to display the result of an expression Fn=2<sup>2n+1</sup>. The n value to be prompted by the user.</li> <li>b) Make use of Python arithmetic operators and build a python program to calculate the area of square, rectangle, and circle. print the results. Take input from user.</li> <li>c) Make use of Python arithmetic operators and build a python program to convert given Celsius to Fahrenheit temperature.</li> </ul>	Applying(K3)	CO1	6
2.	a) Build a Python user défined function to find maximum and minimum letter in a string also to find the length of the string using in build functions.     b) Build a Python function that takes decimal number as input and convert that to binary equivalent and return the same.     c) Build a single user defined function named 'Solve' that returns the Remainder and Quotient.	Applying(K3)	CO1	6
3.	a) Make use of conditional statements to build a Python user defined function to find the largest of three numbers. b Make use of Python conditional statements to build a user defined function to check whether the given year is leap year or not with functions. c) Build a Python program to check whether the given number is positive or negative or zero using conditional statements. d) Build a Python program to find the best of two test average marks out of three test marks accepted from the user.	Applying(K3)	CO1	6
4.	a) Make use of Python loops to build a python program to generate and print prime numbers in the given range. b) Build a Python program to generate Fibonacci series up to the given limit by defining Fibonacci (n) function c) Build a program to compute only even numbers sum within the given natural number using continue statement	Applying(K3)	CO2	6
5.	a) Make use of for loops to model Python program for counting, summing, and average of elements.     b) Make use of iterations and build a python program to find the largest value from the given set of accepted values.	Applying(K3)	CO2	6

Signature of Course Incharge

Signature of HOD/ECE



### K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

### ASSIGNMENT 1 SCHEME 2022 - 23 EVEN SEMESTER

Degree

; B.E

Semester: VI

Branch

: ECE

Course Code: 18EC646

Course Title: PYTHON APPLICTION

Max Marks: 30

PROGRAMMNG

Q.NO.	POINTS	MARKS
1a	#Using Python Operators n=int(input('Enter the n value : ')) fn=2**(Z*n+1) print(Fn)	2
	# Using Math Module n=int(input('Enter the value for n:\n')) import math Fn=pow(2,(2*n)+1) print(Fn)	
16	import math a=int(input('Enter the length of the side for square : ')) l=int(input('Enter the length of the rectangle : ')) b=int(input('Enter the bréadth of the rectangle : ')) r=int(input('Enter the radius of the circle : ')) print("Area of square : ",a*a) print("Area of rectangle : ",I*b) print("Area of circle : ",math.pi*r*r)	2
1c	celsius=float(input('Enter temperature in celsius:\n')) fahr=celsius*9/5+32 print (fahr)	2
2a	def max_min_len(name):     maximum=max(name)     minimum=min(name)     length=len(name)     return maximum,minimum,length  name=input("Enter the string: ")     m,n,l=max_min_len(str(name))     print("maximum = ",m," minimum = ',n," length = ',l)	2

2b	def decimalToBinary(num):		2
	if num > 1: decimalToBinary(num // 2)		
	print(num % 2, end=")		
	# decimal number		
	number = int(input("Enter any decimal number: "))		
	decimalToBinary(number)		Į.
			-
	def binary(n):		
	1=0		
	while(n>0):		
	l.append(n%2)		10
	n=n//2		
	Lreverse()		
	return I		
	n=int(input("Enter the decimal number : "))		
	I=binary(n)		
	for i in range(len(l)):		
	print(l(i],end=")		
2c	def Solve(divisor,dividend):		2
	remainder=dividend%divisor		
	quotient=dividend//divisor		
	return remainder, quotient		
	THE POWER STATISTICS AND DESIGNATION		1
	div=int(input("Enter the dividend : "))		
	dis=int(input("Enter the divisor : "))		
	r,q=Solve(dis,div) print("Remainder = ",r,' Quotient = ',q)		
3a	def largest(n1,n2,n3):		1.5
24	if n1>n2 and n1>n3;		417
	print('largest number is ',n1)		
	elif n2>n1 and n2>n3:		1.0
	print('largest number is ',n2)		
	else:		
	print('largest number is ',n3)		
	n1=int(input("Enter the first number: "))		
	n2=int(input("Enter the second number : "))		
	n3=int(input("Enter the third number: "))		
	largest(n1,n2,n3)		
3b	def leap_year(year):		1.5
	if (year%4)==0:		*
	if (year%100)==0:		
	if (year%400)==0:		
	print("Leap year")		
	else:	2.0	
	print("Not a leap year")		
	elser		
	print("Leap year")		
	else:		
	print("Not a leap year")		

```
year =int(input("Enter the year : "))
        leap_year(year)
        -----
        def findifleap(year):
           if(year%400==0)and(year%100==0):
             print("{0} is a leap year".format(year))
           elif(year%4==0)and (year%100!=0);
             print("{0} is leap year".format(year))
             print("{0} is not a leap year".format(year))
        year=int(input("enter an year"))
         findifleap(year)
3с
        n=int(input('Enter a number : '))
                                                                                                        1.5
        if n>0:
          print("The number is positive")
        elif nko:
          print("The number is negative")
           print("The number is zero")
30
                                                                                                       1.5
        1=[]
        for i in range(3):
         n=int(input("Enter the marks:"))
          Lappend(n)
        Lsort()
        avg=(I[1]+I[2])/2
        print('average marks =',avg)
        m1=int(input("Enter the marks in First IA: "))
        m2=int(input("Enter the marks in Second IA: "))
        m3=int(input("Enter the marks in Third IA: "))
        if (m1>m2):
          If (m2>m3):
             total=m1+m2
          else:
            total=m1+m3
        elif (m1>m3):
          total=m1+m2
        else:
          total=m2+m3
        Avg=total/Z
        print("The average of best two test marks is: ", Avg)
4a
         start=int(input("Enter the starting range of prime number "))
        end=int(input("Enter the ending range of prime number "))
        for i in range(start,end+1):
          C=0
          for | in range(2,i):
             if(i==j):
               continue
             if(i%j==0);
               c=1
```

	break  If c==0 and i!=1:  print(i,end=" ")	
4b	def Fibonacci(n):  a=0 b=1 for i in range (n): print(a,end= " ") f=a+b a=b b=f n=int(input("Enter the number to generate fibonacci series : "))	2
4c	Fibonacci(n)  maximum=int(input("Enter the maximum value:"))  total=0  for num in range(1,maximum+1):  if(num%2==0):  total=total+num  else:  continue  print("THE SUM OF EVEN NUMBERS=", total)	2
5a	count=0  total=0  for y in [20,10,10,20,20,20]:     count=count+1     total=total+y  print('number of elements=',count) print('sum=',total) average=total/count print('average=',average)	3
5b	largest=0 I=[34,65,45,89,99,45,31] for i in l:     if i>largest:         largest=i print("Largest = ",largest)	3

Course In charge

Module Coordinator

HODECE



### **KSIT Bangalore**

# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ASSIGNMENT-2

Academic Year	2022-2023			
Batch	2019-2023			
Year/Semester/section	III/VI/A &B			
Subject Code-Title	18EC646-Python	Applicatio	n Programming	
Name of the Instructor	Dr.B.Surekha	Dept	ECE	

Assignment No: 2 Total marks:30
Date of Issue: 27/4/2023 Date of Submission:26/5/2023

SL No.	Assignment Questions	K Level	со	Marks
1.	(a) Utilize python input function and strings to write a program to accept a sentence from the user and display the longest word of that sentence along with its length.  (b) Build a python code to display the last 6 characters of the string "Make hay while the sun shines" to the console.  (c) Build a python program to display the presence of the given sub-string in the main string.  (d) Build a python program to accept a file name from the user.  (i) Display the first N-lines of the file.  (ii) Find the frequency of occurrence of the word accepted from the user in the file.  (e) Build a python program to copy all lines beginning with vowels from FROM text file to VOWELTEXT text file retaining the other lines.  (f) Build a python program to count the number of occurrences of a given word in a file.	Applying(K3)	CO2	6
2.	(a) Choose and explain any 6 lists handling functions in python with example. (b) Make use of a program to explain lists properties slicing and list traversing.	Applying(K3)	CO3	б
3.	(a ) Make use of syntax to explain how tuples are created in python? Explain the different ways of accessing and creating them.  (b) Identify the need of regular expressions in python language using examples.	Applying(K3)	соз	6
4.	(a) Build a python program to read all the lines in a file accepted by the user and print all e-mail addresses contained in it. Assume the e-mail addresses that contain only non-white space characters (b) Build a python program to search for lines that start with the word 'From' and a character followed by a two-digit number between 00 and 99 followed by 't', Print the number if it is greater than zero. Assume any input file.	Applying(K3)	CO3	6
5.	Make use of example program to instantiate a class and how the class members are accessed?	Applying(K3)	CO4	6

Course In charge

Module Coordinator

HOD ÉCE



## K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

### ASSIGNMENT 2 SCHEME 2022 - 23 EVEN SEMESTER

Degree

: B.E

Semester: VI

Branch

: ECE

Course Code: 18EC646

Course Title: PYTHON APPLICTION

Max Marks: 30

PROGRAMMNG

Q.NO.	POINTS	MARKS
1a	sentence = input("Enter sentence: ") longest = max(sentence splitt)) # Finding longest word print("Longest word is: ", longest) # Displaying longest word print("And its length is: ", len(longest))	t
1b	string = "Make hay while the sun shines" a=string[-6:] print(a)	1
1¢	string = input("Enter the string of sentences"(n")  sub_str = input("Enter the sub-string to search"(n")  if (string find(sub_str) == -1):     print(" NOT PRESENT")  else:     print(" YESIIT (S.PRESENT")	1
1d	Za i ACCCPT FILE AND DISPLAY FIRST N LINES filename=input("Enter filename : ") filename=input("Enter number of lines to be displayed ; ")) linenumber=0 count=0 for fine in f1:	1
10	with open('pythoneg txt','t') as firstfilia, open('unweltext.txt','a') as secondfile: # read content from first file for line in firstfile: words = line.split() for word in words: if word(0) in ('A','E',T,'U','U'): # append content to second file secondfile.worte(line)	1
1†	file = open("pythoneg.txt", "r") #read content of file to string data = file.read() #enter a word to finf number of its occurence	1

	occurrences = data.count("Python") print('Number of occurrences of the word :', occurrences)	
a	1.capitalize () - Converts the first character to upper case txt = "hello, and welcome to my world." x = txt.capitalize()	2
	print (x)	
	output - Hello, and welcome to my world.	
	2.find () - Searches the string for a specified value and returns the position of where it was found	
	tat - "Hello, welcome to my world."	
	x = txt.find("welcome")	
	print(x)	
	output = 7	
	3.endswith () - Returns true if the string ends with the specified value + txt = "Helia, welcome to my world."	
	k = txt.endswith(".")	
	print(x) putput – True	
	4.lower () — Converts a string into lower case	
	txt = "Hollo my FRIENDS"	
	x = txt (qwer()	
	print(x)	ĺ
	output - hello my friends	
	S.split () - Splits the string at he specified separator, and returns a list	
	txt = "welcome to the jungle"	
	x = kx(.spin())	
	print(x)	
	output = ['welcome','to','the','Jungle']	
	G.upper () - Converts a string into upper case	
	txt = "Hello my friends" 2	
	x = txt.upper()	
	print(x) Output = HELLO MY +KRENDS	
	Output - receto mi mienos	
ь	A list is a sequence and they are ordered.  Like a string, a list is a sequence of values, in a string, the values are characters in a list, they can be any	2
	type.	
	The values in list are called elements or sometimes items.	
	There are several ways to create a new list; the simplest is to enclose the elements in square brackets (**)*-	
	and "")")	1
	example	
	[10, 20, 30, 40]	
	Ecrunchy frog', 'ram bladder', 'lark vomit']	
	The first example is a list of four integers.	
	The second is a list of three strings.	
	The elements of a list don't have to be the same type.     The following list contains a string, a finat, an integer.	
	Ine tollowing list contains a string, a linat, an integer.  Example:	
	['spam', Z.0, 5]	
	3.Nested lists are allowed.	1
	A list within another list is called nested lists.	
	example: ['spam', 2.0, 5,(10, 20]]	
	4. Empty lists is also considererd.	
	A list that contains no elements is called an empty list you can create one with empty brackets, [].	
	example:	
	empty = []	
	5. We can assign values	
	As you might expect, you can assign list values to variables:  >>> cheeses = ['Cheddar', 'Edam', 'Gouda']	
	I non-removable a UV bandelnet (Lataret V. mirith)	

```
>>> numbers = [17, 123]
>>> empty = []
>>> print(cheeses, numbers, empty)
['Cheddar', 'Edam', 'Gouda'] [17, 123] []
fi.Lists are mutable
Unlike strings, lists are mutable because you can change the order of items in a list or reassign an item in a
When the bracket operator appears on the left side of an assignment, it identifies the element of the list
that will be assigned.
example:
>>> numbers = [17, 123]
>>> numbers[1] = 5
>>> print[numbers]
[17, 5]
The one-th element of numbers, which used to be 123, is now 5.
7. Accessing elements into the list.
The syntax for accessing the elements of a list is the same as for accessing the characters of a string: the
bracket operator.
The expression inside the brackets specifies the index.
Remember that the indices start at 0:
example:
>>> print(cheeses(0))
Cheddar
If an index has a negative value, it counts backward from the end of the list.
The in operator also works on lists.
>>> cheeses = ['Cheddar', 'Edam', 'Gouda']
>>> 'Edam' in cheeses
>>> 'Brie' in cheeses.
False
8. Traversing a list
The most common way to traverse the elements of a list is with a for loop. The
syntax is the same as for strings:
for cheese in cheeses:
print(cheese)
LIST SLICING
The slice operator also works on lists:
syntax and example:
>>> t = ['a', 'b', 'c', 'd', 'e', 'f']
200 t [1:3]
[b, c]
>>> t[4]
('a', 'b', 'c', 'd')
>>> 1 3:1
If you omit the first index, the slice starts at the beginning. If you omit the second,
the slice goes to the end. So if you omit both, the slice is a copy of the whole list.
>>> t[:]
('a', 'b', 'c', 'd', 'e', 'f')
Since lists are mutable, it is often useful to make a copy before performing opera-
tions that fold, spindle, or mutilate lists.
A slice operator on the left side of an assignment can update multiple elements:
>>> t = ['a', 'b', 'c', 'd', 'e', 'f']
>>> t[1:3] = ('x', 'y']
>>> print(t)
['a', 'x', 'y', 'd','e', f']
```

3a	A tuple is a sequence of values much like a list. The values stored in a tuple can be any type, and they are indexed by integers. The important difference is that tuples are immutable. Tuples are also comparable	3
	and hashable so we can sort lists of them and use tuples as key values in Python dictionaries.  Syntactically, a tuple is a comma-separated list of values:	
	>>> f = 'a', 'b', 'c', 'd', 'e'	
	Although it is not necessary, it is common to enclose tuples in parentheses to help us quickly identify tuples when we look at Python code:	
	>>> t = ('a', 'b', 'c', 'd', 'e')	
	To create a tuple with a single element, you have to include the final comma:	1
	>>> £T = (.9,*)	
	>>> type(t1) <type 'tuple'=""></type>	
	Without the comma Python treats ('a') as an expression with a string in parentheses that evaluates to a	
	string:	
	333 t2 = ('a')	
	>>> type(tZ)	
	<type 'str's<="" td=""><td></td></type>	
	Another way to construct a tuple is the built-in function tuple. With no argument, it creates an empty	
	tuple	
	The word "tuple" comes from the names given to sequences of numbers of varying	
	lengths: single, double, triple, quadruple, quintuple, sextuple, septuple, etc.	
	>>> t = tuple() >>> print(t)	
	>>> print(t)	
	If the argument is a sequence (string, list, or tuple), the result of the call to tuple is a tuple with the	
	elements of the sequence:	
	>>> t = tuple('lupins')	
	>>> print(t)	
	('i', 'u', 'p', 'i', 'n', 's')	
	Because tuple is the name of a constructor, you should avoid using it as a variable name.	17
	Most list operators also work on tuples. The bracket operator indexes an element:	
	>>> t = ('a', 'b', 'c', 'd', 'e') >>> print(t(0))	
	'a'	
	And the slice operator selects a range of elements.	
	>>> print[t[1:3]]	
	('b', 'c')	
	But if you try to modify one of the elements of the tuple, you get an error:	15
	>>> t[0] = 'A'	
	You can't modify the elements of a tuple, but you can replace one tuple with enother:	
	>>> t = ('A',) + t[1:)	
	>>> print(t)	
	('A', 'b', 'c', 'd', 'c')	
3.	Regular expressions is a library. It is used to match strings of text such as particular characters, words, or	3
	patterns of characters.	
	It means that we can match and extract any string pattern from the text with the help of regular	
	Like any other library, it has to be imported before use, as:	
	import re	
	Regular expressions are useful in :	
	> verify the structure of strings	
	> extract substrings form structured strings	
	> search / replace / rearrange parts of the string	
	> split a string	
	Example: # Search for lines that contain 'From'	

	hand = open('demo.txt') for line in hand: line = line.rstrip() if re.search('From:', line): print(line) This will only match lines that start with the string "From:". This is still a very simple example that we could have done equivalently with the startswith() method from the string library. But it serves to introduce the notion that regular expressions contain special action characters that give us more control as to what will match the regular expression.	
4a	data = 'From stephen marguard@urt ac 2a Sat Ian S 09:14:16 2008' atpus = data.find('@') print(atpos) appos = data.find(' 'atpos) print(appos) host = data[atpos+1:sppos] print(host)	3
4b	impart re file * open("Abc.txt") for line in file: x=rc.findall(">From.*(0.9)[0.9]:.*', line) if len(x) > 0: print(x)	3
5	class: A user-defined compound type. A class can also be thought of as a template for the objects that are instances of it.  Instantiate: To create an instance of a class.  Instance: An object that belongs to a class.  Instance: A compound data type that is often used to model a thing or concept in the real world.  Constructor: A method used to create new objects. attribute: One of the named data items that makes up an instance.  Example: class Point:  Data A. O  Diank x = 3.0  Diank x = 3.0  Diank x = 4.0  x = blank x  print(x)  print(blank y)  3.0  REsplanation about every command	6

Course in charge

Module Coordinator

HOD ECE



## K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

# Department of Electronics & Communication Engineering

ASSIGNMENT TYPE: MINI PROJECT

#### Important dates:

Sl. No	Details	Date
1.	Date of issue of topics for presentation	25/3/23
2.	Dates for Appeal/challenge (on or before)	28/3/23
3.	Last date for the submission of the Project Code	8/6/23
4.	Last date for Demo Presentation	10/6/23
5.	Date of announcement of evaluation	30/6/23

#### Note:

- 1. Projects should be helpful to society
- Assignments marks will not be given if submitted on later dates or failed to present a seminar/demo.

#### Rubrics/Evaluation Strategy

SL. No	Criteria Ł	Marks
1.	Results	10
2.	Quality of Team Demo	5
3.	Quality of Code	5
4.	Usefulness to society/environment	5
5.	Individual Contribution to Project	5
6.	Individual Contribution to Report	5
7.	Tool Learning	5
	Total .	40 (Scale the Marks to 10)

Signature of Course Incharge

Signature of HOD/ECE

# - K.S.INSTITUTE OF TECHNOLOGY: DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING VI SEMESTER SECTION : A ASSIGNMENT :3

COURSE: PYTHON APPLICATION PROGRAMMING CODE: 18EC646

i.No.	Team No.		USN	Name	Title of Project	Date of presentation	Marks
1	T-1	1	1KS20EC036	HARSHITHA, N	Banking Sytem	16/6/23	10
2		2	1KS20EC034	HARSHITHA: 8L			10
3		3	1KS20EC035	HARSHITHA. I			10
4		4	1KS20EC032	HARINI K			9
-5	T-2	1	1KS20EC025	Dhya.N	Library Management System	16/6/23	10
-6		2	1K520EC023	Dhamini J. Naidu			10
7.		- 3	1KS20EC010	Bhavitha B			10
8	T-3	1	1K520EC015	C. Umadevi	Online digital voting system using pyth	19/6/23	10
9		2	1KS20EC050	K. Prathima			10
10		3	1K519EC026	Eram Fathima			10
11		4	1K520EC060	N.Gouthami			10
12	T-4	1	1K520EC042	K Jeevitha	Face detection and counting	16/6/23	10
13.		2	1KS20EC046	Kavya S M			10
14		3	1KS20EC054	Madiba			10
15	T-5	1	1KS20EC002	Aditi Dubey	Data visualization of Covid-19 Cases in	16/6/23	10
16		2	1KS20ECD30	Gandhamani			10
17		-3	1K\$20FC057	Meghashree			10
18	T-6	1	1KS20EC053	M.Archana	Units converter	19/6/23	10
19		Z	1KS20EC047	Keerthana.b.s			10
20		3.	1KS20EC014	C.Sai Srujitha			10
21		4	1KS20EC038	J.Chaithanya Krishna			10
22	T-7	1	1KSZ0EC039	JAMUNA SG	Employees number tracking	16/6/23	10
23		2	1K520EC040	JANHAVI R			10
24		3	1KS20EC056	MANASWINIKM			AB
25	7-8	1	1KS20EC077	Bakshith R	Language Translator using Python	16/6/23	10
26		2	1KS20EC093	Sharath M			10

27		3	D0520FC108	Ustay C H			10
28		4	1K5Z0EC098	Shreyas P.S.Rao			10
29	T-9	1	1KS19EC034	Hima swetha.	Health and Fitness Colculator	16/6/23	10
30		2	1KS20ECDOR	8s. Hema shree		100 00 42	10
31		3	1K\$20ECD13	Chartra k	- I		10
32	T-10	1	1KS20EC070	Priyanka K	ATM Simulation	19/6/23	10
33		2	18520EC083	S Arum kumar		- 1.17 to 8.3	10
34		3	1KS20EC085	Sadhana srinivas			10
35		4	1KS20EC092	Shakthi Anbashagan M			10
36	T-11	1.	1K520EC001	Abhishok i	Object Weight Calculation	19/6/23	10
37		2	1KS20EC017	Chetan G	14	4010040	10
38		3	1K\$20EC018	Chetan Kumar J			6
39		4	1KS20EC019	Chetan Kumar T			10
40	T-12	1	1XS20EC111	VAISHNAVI VH	OR CODE GENERATOR USING PYTHON	16/6/23	10
41		2	1892000113	VUAYALAKSHMI K		10,0020	10
42		. 3	1KS20EC117	YASHILAA S			10
43	T-13	1	1K\$20EC026	Eshwar Biradar	Make a clock using python programmir	16/6/23	8
44		Z	1KS20EC04B	Kiran Dev D	0, 17 (10)	200 00 20	10
45		3	1KS20EC052	Kusuma V R-			10
46	and the same of the	- 4	1KS20EC055	Mahesh Siredar			9
47	T-14	1	1KS20EC062	NEHA NAGARAJ AIRANI	Password Compliance Checker	15/6/23	10
48		. SZ	1KS20EC112	N Varsha		X-7-47-22	9
49		3	1/0520EC080	Ramya T			8
50	T-15	1	1KS20EC073	Rahul Krishnan V	Python Weather Forecasting	16/6/23	10
51		2	1KS20EC103	Sumukha S		200 00 00	- 7
52		-3	1KS20EC105	Tarun Prasanna			10
53		-4	1K320EC106	Taejas N Roddy			0
54	T-16	. 1	1KS20EC084	Sachin NM	Air Quality index Tracker	16/6/23	10
55		2	1K520EC087	Sandeep YH		4 47 50 Aug	10
56		3	18S20FC109	Ujjwal Naidu		-	10
57		4	1K520EC114	Vinay SP			10

58	T-17	1	1K520EC068	Prema G	Random Geometric Patten	16/6/23	10
50		2	1KS20EC079	Rameshwar			10
60		3	1KS20EC094	Shashank 5			10
61		4	1032060097	Shreyas MS-			10
62	T-18	1	1KS20EC043	AMSHUMANTH.K.M	TEXT TO SPEECH CONVERTER	16/6/23	10
63		2	1KS20EC049	KIRAN V NARAYAN			10
60		3	10520E0051	KUMAR KG			AB
65		4	1KS20EC058	MOHAN KRISHNA			10
66	T-19	1	1KS20E0059	N Shreya	Generation of Contact Book	16/6/23	10
67		2	1KS20EC076	Rakshith NM			10
68	Emanual A	3	1K\$20EC101	Sonika R			10
69		4	1KS20EC104	Suraksha N			10
70	T-20	- 1	1KS20EC066	Pradhyumna SK	Daily Expenses Entry	16/6/23	
71		2	1KS20EC075	Rajoth KA			8
72		3	1KS20EC116	Vineeth MS			B.
73		- 4	1K\$20EC118	Yeshwanth Y			
74	T-21	1	1K\$20EC061	Neha CR	BMI Calculator	16/6/23	10
75		2	1K\$20EC065	Payani TS			10
76		3	1KS20EC071	Priyanka M		and the second	1.0
77		-4	1K\$20EC072	Pushpa DT			7
78	T-22	1	1KS20EC024	Ohruva Kumar 5	Currency Converter	15/6/23	5-
79		. 2	1KS20EC028	Gegen HC			10
80.		3	1KS20EC033	Harshith Gowda AR			7
81	en aran e	4	1K\$20EC041	Jayanth H			10
82	T-23	1	1K520EC004	Ajay BG	Expenses Tracker GUI with Calender	16/6/23	10
83		2	1KS20EC006	Akash M			10
84		3	1KS20EC016	Chaya S		1	10
B5	T-24	1	1KS20EC021	Darshan Kumar S	Speech to Text Converter	16/6/23	10
86		2	1KS20FC027	G Bhavana P			10
87		3	1K520EC031	Gomitha RC			10
88	T-25	- 31	1KS20ECD95	Shiva Reddy	Movie ticket booking system	19/6/23	10

89		2	1K\$2DECD96	Shreya H	4		10
90		3	1KS20EC099	Shweta Deepak			10
91	T-26	1	TK\$20EC089	Sanjana G	Morse code translator	19/6/23	10
92		2	18S20EC091	Sanjana TG			
93		-3	1XS20EC102	Sumano N			10
94		4	DK\$2000110	Yaishnayi A			10
95	T-27	1	1KS20EC10?	T Girish Chowdery	Donation Tracker	19/6/23	10
96	T-28	1	1KS20EC037	Inchara P	Income Tax Calculation	19/6/23	10
97		- 2	1KS20EC029	Gagana RS		2010000	10
98	T-29	1	1K520EC003	Aleefa	Donation Report Generator	19/6/23	10
99		2	1KS20EC011	Bhuvaneshwari	75.		10
100		- 3	1KS20ECD12	Chaitanya			10
101		4	1K520EC020	Darshan K			10
102	T-30	1	1K520EC074	RAHUL R	Youtube mp4 downloader	19/6/23	10
103		2	1KS20ECU78	RAKSHITHA A		447.07.43	10
104		3	1KS20EC083	ROHIT A K			10
105		4	1KS20ECT15	VINAY SAGAR V ALUR			10







# K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109 FIRST INTERNAL TEST QUESTION PAPER 2022 - 23 EVEN SEMESTER

SET: A

Degree Branch : B. E.

Course Title Duration

ECE Python Application Programming

90 Minutes

USN .

Semester Course Code VI A& B 18EC646 18-4-2023

Date 30 Max Marks

Note: Answer ONE full question from each part.

K-Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-

Creating

	Creating		The second second	
Q No.	Question	Marks	CO mapping	K- Level
_	PART-A			7200
l(a)	Identify and explain the applications of complier and interpreter with an example and list the features of Python Programming Language.	6	CO1	кз
(b)	Make use of flowchart to explain the conditional execution and alternative execution statements with an example.	6	CO1	К3
(c)	Make use of Python arithmetic operators, try and except statements and build a python program to convert given Fahrenheit to Celsius temperature.	6	COI	К3
	, OR		Maria de la compansión de	
2(a)	Develop example for fruitful and non-fruitful functions in Python.	6	C01	К3
(b)	Identify the rules of precedence used by Python to evaluate an expression with example.	6	COI	К3
(e)	Make use of at least three different types of variables in example program to explain the rules to declare a variable in Python.	6	COI	К3
	PART-B			
3	Make use of syntax and example program to explain the definite and infinite looping constructs in python.	12	CO2	К3
_	OR		10-10-10-10-10-10-10-10-10-10-10-10-10-1	
4	Identify the use of break and continue keywords using a snippet of code.	12	CO2	К3

Course in charge

Module Coordinator

Principal



### K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109 FIRST INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER

SET-A

#### SCHEME AND SOLUTION

Degree

B. E

Semester: VI -

Branch

Electronics & Communication Engg.

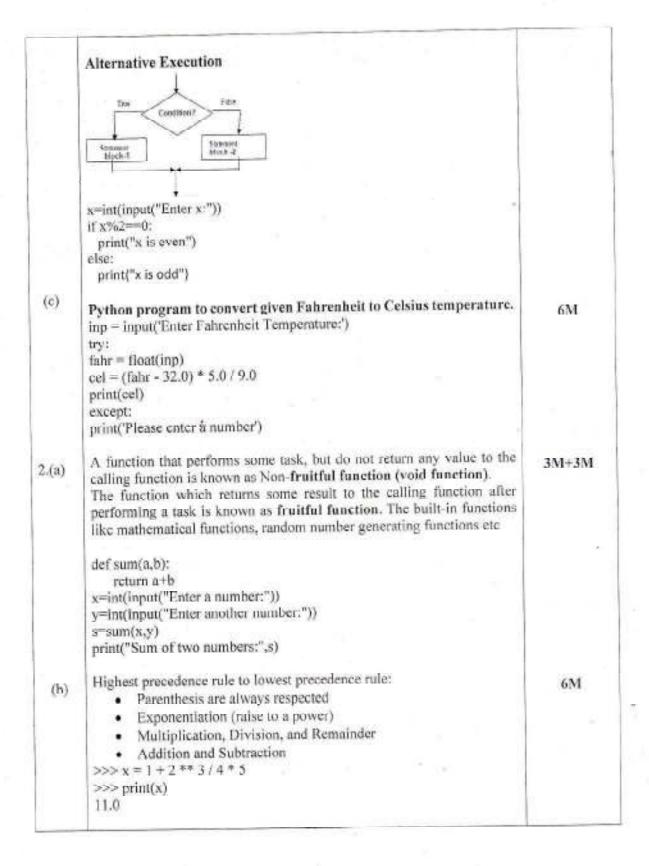
Course Code : 18EC646

Course Title

Python Application Programming

Max Marks: 30

Q.NO. POINTS MARKS 2M+2M+2M 1.(a) Features of Python · A variety of basic data types are available: numbers, strings, lists, and dictionaries. Python supports object-oriented programming with classes and multiple inheritance. Code can be grouped into modules and packages. · The language supports raising and catching exceptions, resulting in cleaner error handling. Data types are strongly and dynamically typed. Python is an interpreter and when we are running Python interactively, we can type a line of Python (a sentence) and Python processes it immediately and is ready for us to type another line of Python. Example: >>> x - 6 >>> print(x) Compilers needs to be handed the entire program in a file, and then it runs a process to translate the high-level source code into machine language and then the compiler puts the resulting machine language into a file for later execution. 3M+3M (b) Conditional Execution Entry condition? 1706 Statement Block Exp Example: >>> x=[()>>> if x<40: print("Fail")



Q.NO.	POINTS	MARKS
(c)	<ul> <li>Variable names can be arbitrarily long.</li> </ul>	6M
	<ul> <li>They can contain both letters and numbers, but they cannot</li> </ul>	
	start with a number.	
	It is legal to use uppercase letters, but it is a good idea to begin	
	<ul> <li>variable names with a lowercase letter</li> </ul>	
	<ul> <li>The underscore character (_) can appear in a name,</li> </ul>	
	<ul> <li>Variable names can start with an underscore character, but we</li> </ul>	
	<ul> <li>generally avoid doing this unless we are writing library code for</li> </ul>	
	others to use.	
	<ul> <li>Keywords or reserved words cannot be used as variable</li> </ul>	
	• names,	
	Examples	
	>>> xample=10	
	>>> print(x)	
	10 #output >>> type(x)	
	<elass 'int'=""> #type of x is integer</elass>	
	>>> y="hi"	
	>>> print(y)	
	hi #output	
	>>> type(y)	
	<class 'str'=""> #type of y is string</class>	
	Another example for float	
3.	Infinite Loops: A loop may execute infinite number of times when the	6M+6M
	condition is never going to become false.	No.
- 1	Example:	
	while True:	
	x=int(input("Enter a number:"))	92
10	if x>= 0:	
	print("You have entered ",x) else:	
1	print("You have entered a negative number!!")	
	printy I ou have emerce a negative number:: )	
	Definite Loops: When we know total number of times the set of	
- 9	statements to be executed, for loop will be used.	
	Example:	
	names=["Ram", "Shyam", "Bheem"]	
	for x in names:	
	print("Happy New Year",x)	
	print("Done!")	
	Samuelinas processor and Electronic and State	
4,	Sometimes, programmer would like to move to next iteration by skipping	6M+6M
	few statements in the loop, based on some condition with current iteration. For this purpose, continue statement is used.	
	average i or this purpose, continue statement is used.	

8,0

Infinite loop has been avoided by using break statement with a condition.
Example:
 sum=0
 count=0
 while True:
 x=input("Enter a number:")
 if x%2!=0:
 continue
 else:
 sum+=x
 count+=1
 if count==5:
 break
 print("Sum=", sum)

Course in charge

Module Coordinator

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# K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109 FIRST INTERNAL TEST QUESTION PAPER 2022 - 23 EVEN SEMESTER

SET: B

Degree Branch B. E.

Course Title
Duration

ECE Python Application Programming

90 Minutes

USN : VI A& B

Course Code : 18EC646
Date : 18-4-2023

Max Marks : 30

Note: Answer ONE full question from each part,
K-Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6Creating

Q. No.	Question	Marks	CO *	K- Level
	PART-A			727
(a)	Identify the types of errors with examples.	6	COI	К3
(b)	Make use of syntax and flowcharts to explain the chained and nested conditional execution statements with an example.	6	COI	К3
(e)	Make use of conditional statements to build a Python user defined function to find the smallest of three numbers.	6	COI	К3
	OR			
2(a)	Identify how to pass parameters in user defined functions with suitable example.	6	C01	К3
(b)	Make use of built-in modules and explain type conversion functions and math functions in python.	6	COI	К3
(c)	Make use of Python arithmetic operators and build a python program to calculate the area of square, rectangle, and circle, print the results. Take input from user.	0	COI	кз
-	PART-B			
1	Identify the applications of while and for loops with suitable examples.	12	CO2	К3
	OR			
4	Make use of syntax and example program to explain the finishing iterations with break and continue statements in python.	12	CO2	K3

Course in charge

Module Coordinator

HOD ECE

Principal

Selected



### K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109 FIRST INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER

SET: B

#### SCHEME AND SOLUTION

Degree

B. E

Semester: VI

Branch

Electronics & Communication Engg

Course Code : 18EC646

Course Title

Python Application

Max Marks: 30

Programming

O.NO. MARKS POINTS Syntax Errors: The statements which are not following the grammar (or 1.(a)4M+2M syntax) of the programming language are tend to result in syntax errors. Logical Errors: Logical error occurs due to poor understanding of the problem. Syntactically, the program will be correct. But it may not give the expected output. For example, you are intended to find a%b, but by mistake you have typed a/b. Then it is a logical error. Semantic Errors: A semantic error may happen due to wrong use of variables, wrong operations or in wrong order. For example, trying to modify un-initialized variable etc. Building Blocks of Programs: Input, output, sequential execution, conditional execution, repeated execution and reuse. Nested Conditionals: one set of conditional statements can be nested (h) 3M+3M inside the other. Example marks=float(input("Enter marks:")) if marks>=60; if marks<70: print("First Class") e se: print("Distinction") Chained Conditionals: Some of the programs require more than one possibility to be checked for executing a set of statements. That means, we may have more than one branch. Example: marks=float(input("Enter marks:")) if marks >= 80: print("First Class with Distinction")

```
elif marks >= 60 and marks < 80:
        print("First Class")
       elif marks >= 50 and marks < 60:
        print("Second Class")
       elif marks >= 35 and marks < 50:
        print("Third Class")
       else:
        print("Fail")
       Python user defined function to find the smallest of three numbers.
                                                                                      6M
(c)
       a = int(input(Enter first number ; '))
       b = int(input('Enter second number: '))
       e = int(input('Fnter third number :'))
       smallest = 0
       if a < b and a < c:
          smallest = a
       elif b s c :
          smallest = b
       else :
          smallest - c
       print(smallest, "is the smallest of three numbers.")
               We can define more than one parameter in the function definition
                                                                                       6M
2.(a)
              We simply add more arguments when we call the function
              We match the number and order of arguments and parameters
        def addtwo(a, b):
          added = a + b
          return added
        x = addtwo(3, 5)
        print(x)
                                                                                    3M+3M
        The type of the variable/value can be converted using functions int(),
        float(), str().Python provides built-in functions that convert values from
        one type to another.
        int('20')
        float('3.5')
        str(21)
        Python provides a rich set of mathematical functions through the module
        math. To use these functions, the math module has to be imported in the
        sqrt(),pi,log10(),log(),sin(),cos(),tan(),pow()
```

c)	import math	6M
~/	a=int(input('Enter the length of the side for square : '))	
	l=int(input('Enter the length of the rectangle:'))	
	b=int(input('Enter the breadth of the rectangle:'))	
	r=int(input('Enter the radius of the circle : '))	
	print("Area of square : ",a*a)	
	print("Area of rectangle: ",l*b)	
	print("Area of circle : ",math.pi*r*r)	- 1
3.	While Loop: A loop may execute infinite number of times when the	he 3M+3M
	condition is never going to become false.	
	Example:	-
	n=1	50
	while True:	
	print(n)	
	n=n+1	
	For Loop: When we know total number of times the set of statements	to
	be executed, for loop will be used.	**
	Example:	
	for i in "Hello":	
	print(i, end="\t'")	4
	it was and a loop and mont to finish to	he 6M+6M
4	Sometimes you are in an iteration of a loop and want to finish	anc one one
	<ul> <li>current iteration and immediately jump to the next iteration.</li> <li>In that case you can use the continue statement to skip to the next.</li> </ul>	ext
	iteration without finishing the body of the loop for the curr	ent
	iteration.	
	Example:	
	while True:	
	line = input(">")	
	if line[0] == '#':	150
	continue	
	if line == 'done':	
	break	
	print(line)	1
	print('Done!')	111

Course in charge

Module Conrdinator

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## K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109 SECOND INTERNAL TEST QUESTION PAPER 2022 - 23 EVEN SEMESTER

SET: A

Degree Branch

Duration

B. E

Course Title

ECE

Python Application Programming 90 Minutes USN Semester

: VI A& B

Course Code

18EC646

Date Max Marks 6-6-2023

: 30

Note: Answer ONE full question from each part.

K-Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

	Creating		tide and the state of the	
Q No.	Question	Marks	CO mapping	K- Level
	PART-A			
1(a)	Make use of syntax and example programs to explain the properties and slicing of Lists.	6	CO3	К3
(b)	Differentiate between POP and REMOVE methods on lists. How to delete more than one element from a list.	6	CO3	КЗ
(e)	Make use of python program to demonstrate creation and indexing in dictionaries.	6	CO3	К3
	OR			
2(a)	Choose any two list operations and list methods and explain with examples	6	CO3	К3
(b)	Identify the differences between tuples and lists with examples.	6	CO3	К3
(e)	Make use of example programs to explain the following operations in tuples:  (i) Sum of two tuples.  (ii) Slicing operators.  (iii) Assignment to variables.	6	CO3	К3
	PART-B			
3 (a)	Choose any 6 string handling methods in python and explain with examples	6	CO2	К3
(b)	Make use of example program to define a class, instance, instantiation, attributes and accessing of class members.	6	CO4	К3
	OR			
4(a)	Make use of syntaxes and examples to explain read (), write () methods for a file.	6	CO2	К3
(b)	Make use of python code, to explain how functions return instance values.	6	CO4	К3

Course In charge

Module Coordinator

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Principal

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# K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109 SECOND INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER

#### SCHEME AND SOLUTION

Degree

B. E

Semester: VI

Branch

Electronics & Communication Engg.

Course Code: 18EC646

Course Title

Python Application

Max Marks: 30

Programming

Q. No.	POINTS	MARKS
1(a)	Properties of Lists: -3M	3+3=6
	Lists are ordered Sequence	
	Example: >>> a = ['foo', 'bar', 'baz', 'qux']	
	Lists can contain any arbitrary objects	
	Example:	
	>>> a = {21.42, 'foobar', 3, 4, 'bark', False, 3.14159}	
	List elements can be accessed by index.	
	'foo'	
	0 I 2 3 4 5 >>> a[2]	
	'baz'	
	Lists can be nested to arbitrary depth.	
	Example: x = ['a', ['bb', ['ccc', 'ddd'], 'ee', 'ff'], 'g', ['hh', 'ii'], ']']	
	Lists are mutable.	
	Example: >>> numbers = [17, 123]	
	>>> numbers (1) = 5	
	>>> print(numbers)	2.00
	[17, 5]	
	List Slicing-3M	
	Example:	
	>>> t = ['a', 'b', 'c', 'd', 'e', 'f']	
	>>> 1[1:3]	
	['b', 'c']	
	>>> t[:4]	
	['a', 'b', 'c', 'd']	,
	>>> t[3;]	-
	['d', 'e', 'f']	
	>>> t[:]	
	['a', 'b', 'c', 'd', 'e', 'f']	
	#Explanation about every command	
1(b)	POP.4 M	4+2=6M
	use pop if the index of the element to be removed is known.	
	- pop modifies the list and returns the element that was removed.	
	-If index is not provided pop deletes and returns the last element.	

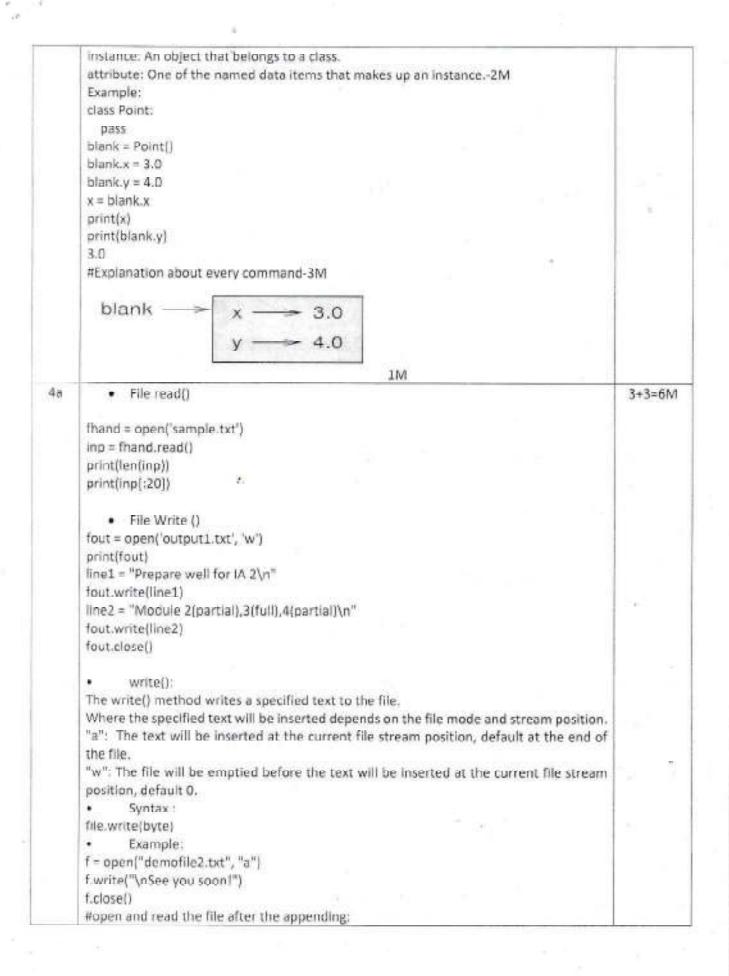
```
>>> t = ['a', 'b', 'c']
       >>> x = t.pop(1)
       >>> print(t)
       [a, c]
       >>> print(x)
       >>> t1 = ['a', 'b', 'c']
       >>> v = t1.pop()
       >>> print(t1)
       ['a', 'b']
       REMOVE:-2M
       Use remove if the element to be removed is known (but not the index). The return value
       from remove is None.
       >>> t = ['a', 'b', 'c']
       >>> t.remove('b')
       >>> print(t)
       ['a', 'c']
       #Explanation about every command
1 (c)
       Dictionaries creation -3M
                                                                                                   3+3=6M
       >>> purse = dict()
       >>> purse['money'] = 12
       >>> purse['candy'] = 3
       >>> purse['tissues'] = 75
       >>> print(purse)
       ('money': 12, 'tissues': 75, "candy': 3)
       Dictionaries Indexing-3M
       >>> print(purse['candv'])
       >>> purse['candy'] = purse['candy'] + 2
       >>> print(purse)
       ('money': 12, 'tissues': 75, 'candy': 5)
       #Explanation about every command
2(a)
       Any 2 List Operations:-3M
                                                                                                   3+3=6M
       i) Concatenation using "+"- The two list can be created and can be joined using
       '+'operator
       Eg- a = [1,2,3]
           b= [4,5,6]
           c=a+b
           print(c)
       OUTPUT:- [1,2,3,4,5,6]
       ii)) Repetitions using "*"
       The * is used to repeat the list of number of times
       Eg - a= [1,2,3]
           b=3
          c=a*b
           print(c)
       OUTPUT :-[1,2,3,1,2,3,1,2,3]
       Any 2 methods:-3M
          (a) append adds a new element to the end of a list:
```

	>>> t.a >>> pr ['a', 'b' (b) Examp >>> t1 >>> pr ['a', 'b' (c) Sor Examp >>> t = >>> t.s >>> pr ['a', 'b'	= ['a', 'b', 'c'] append('d') int(t) ', 'c', 'd'] Extend takes a list as an argument an unmodified. ele: = ['a', 'b', 'c'] = ['d', e'] .extend[t2) int(t1) , 'c', 'd', 'e'] et arranges the elements of the list from ele: = ['d', 'c', 'e', 'b', 'a'] ort()	d appends all of the elements. Leaves t2	
2(b)	SI.	List	Tuple	6*1=6M
	No.	Lists are mutable	Turkerseries	
	2.	Lists have several built-in methods	Tuples are immutable  Tuple does not have many built-in methods.	
	3.	Lists consume more memory	Tuples consume less memory as compared to the list	
	4	The implication of iterations is time consuming in the list	Implications of iterations are much faster in tuples	
	5.	A list has a class of 'list', <class 'list'=""></class>	A tuple has a class of 'tuple', <class 'tuple'=""></class>	30
	6.	Example- list_data = ['an', 'example', 'of', 'a', 'list'] print(list_data) output- ['an', 'example', 'of', 'a', 'list']	Example- tuple_data = ('this', 'is', 'an', 'example', 'of', 'tuple') print(tuple_data) output- ('this', 'is', 'an', 'example', 'of', 'tuple')	
	#Explan	nation about every command	The state of the s	
2(c)	Sum of >>> t = >>> t = >>> pri	two tuples-2M ('a', 'b', 'c', 'd', 'e') ('A',) + t[1:]	8 (2) E	2+2+2=6M
	>>> ( =	operator-2M ('a', 'b', 'c', 'd', 'e') nt(t[1:3])		

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	('b', 'c')	
	Assignment to variables-2M	
	>>> m = ('have', 'fun')	
	>>> x, y = m	
	>>> x	
	'have'	
	>>> y	
	'fun'	- 1
	#Explanation about every command	
3a	1.capitalize () - Converts the first character to upper case	6*1=6M
	txt = "hello, and welcome to my world."	
	x = txt.capitalize()	
	print (x)	
	output - Hello, and welcome to my world.	
	2.find () - Searches the string for a specified value and returns the position of where it	
	was found	
	txt = "Hello, welcome to my world."	
	x = txt.find("welcome")	
	print(x)	
	output – 7	
	3, ends with () - Returns true if the string ends with the specified value	
	txt = "Hello, welcome to my world."	
	x = txt.endswith(".")	
	print(x)	
	output - True	
	4.lower () - Converts a string into lower case	
	txt = "Hello my FRIENDS"	0.00
	x = txt.lower()	
	print(x)	
	output – hello my friends	j
	5.split () - Splits the string at he specified separator, and returns a list	
	txt = "welcome to the jungle"	
	x = txt.split()	
	print(x)	
	output - ['welcome','to','the','jungle']	
	6.upper () - Converts a string into upper case	× 1
	txt = "Hello my friends"	
	x = txt.upper()	
	print(x)	
	output – HELLO MY FRIENDS	
	#Explanation about every command	2.2.4.65
3b	class: A user-defined compound type. A class can also be thought of as a template for	2+3+1=6N
	the objects that are instances of it.	
	instantiate: To create an instance of a class.	



	f = open("demofile2:txt", "r")	
	print(f.read())	
	output :	
	C:\Users\My Name>python demo_file_write2.py	
	Helio! Welcome to demofile2.txt	
	This file is for testing purposes.	
	Good Luck!	
	See you soon!	
	Read():	
	The read() method returns the specified number of bytes from the file. Default is -1 which means the whole file.	
	SYNTAX:	
	file.read()	
	EXAMPLE:	
	f = open("demofile.txt", "r")	
	print(f.read(33))	
	OUTPUT:	
	C:\Users\My Name>python demo_file_read.py	
	Hello1 Welcome to demofile.txt	
	This file is for testing purposes.	
	Good Luck!	
	#Explanation about every command	
4b	Functions can return instances.	3+3=6M
	For example, find_center takes a Rectangle as an argument and returns a Point that	
	contains the coordinates of the center of the Rectangle:	
	def find_center(rect);	
	p = Point()	
	p.x = rect.corner.x + rect.width/2	
	p.y = rect.corner.y + rect.height/2	
	return p	150
	>>> center = find_center(box)	
	>>> print_point(center)	
	(50, 100)	
	d	

Course in charge

Module Coordinator

HOD ÉCE



# K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109 SECOND INTERNAL TEST QUESTION PAPER 2022 - 23 EVEN SEMESTER

SET: B

Degree Branch

B, E

Course Title Duration ECE

Python Application Programming 90 Minutes USN Semester

VI A& B

Course Code

18EC646 6-6-2023

Date : 6-6 Max Marks : 30

Note: Answer ONE full question from each part.

K-Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Question	Marks	CO mapping	K- Level
	PART-A		10 3900000	
1(a)	Choose and explain any 3 lists handling functions in python with example.	6	CO3	К3
(b)	Make use of syntax to explain how tuples are created in python? Explain the different ways of accessing and creating them.	6	CO3	К3
(c)	Build a python program using lists to store and display the average of N integers accepted from the user.	6	CO3	К3
	OR		10 N V V V V V V V V V V V V V V V V V V	
2(a)	Make use of a program to explain lists slicing and list traversing.	6	C03	K3
(b)	Make use of python program to demonstrate creation and indexing in dictionaries.	6	CO3	К3
(e)	Identify the need of regular expressions in python language using examples.	6	C03	К3
	PART-B			
3(a)	Choose and explain any 6 built-in string manipulation functions supported by python.	6	CO2	K3
(b)	Identify the differences between shallow equality and deep equality with respect to classes and objects, with the help of python codes.	6	CO4	K3
	OR			
4(a)	Make use of syntaxes and examples to explain file functions in python.	6	CO2	К3
(b)	Make use of example program to instantiate a class and how the class members are accessed?	6	CO4	К3

Course In charge

Module Coordinator

HaD FOR

Principal



## K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109 THIRD INTERNAL TEST QUESTION PAPER 2022 - 23 EVEN SEMESTER

SET: A

Degree Branch : B. E

ECE

Course Title Duration Python Application Programming

: 90 Minutes

USN

Semester

VI A& B

Course Code

18EC646

Date

4-07-2023

Max Marks

30

Note: Answer ONE full question from each part.

K-Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Question	Marks	CO	K- Level
	PART-A		. +	
1(a)	Make use of python code and explain how to retrieve contents of an image file over socket connection?	6	COS	К3
(b)	Develop python code for parsing JSON and explain.	6	COS	К3
(e)	Make use of SQL cursor architecture to explain connect, execute, and close command of databases with suitable examples.	6	CO5	КЗ
	OR			
2(a)	Make use of python code and explain how to retrieve web pages with urilib.	6	CO5	К3
(b)	Develop a python code for parsing XML and explain.	6	CO5	К3
(e)	Identify the advantages of Service Oriented Architecture and explain the concept.	6	COS	К3
	PART-B			
3 (a)	Make use of a python program to explain_str_method.	6	CO4	К3
(b)	Make use of Python code to explain the polymorphic functions.	6	CO4	K3
ATT VIC	OR			
4 (a)	Develop a python code to overload "+", and "*" operator by the methodsaddandmul	6	CO4	К3
(b)	Identify the difference in working of pure functions and modifiers with python codes and explain.	6	CO4	К3

Course In charge

Module Coordinator

HOD ECE

Principal



### K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109 THIRD INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER

SET - A

#### SCHEME AND SOLUTION

Degree

B. E

Semester:

VI

Branch

Electronics & Communication Engg.

Course Code :

18EC646

Course Title

Python Application

Max Marks :

30

Programming

Q.NO. POINTS MARKS 1.(a) 6MRetrieve an image over HTTP Program: import socket import time HOST = 'data.pr4c.org' PORT = 80mysock = socket.socket(socket.AF INET, socket.SOCK STREAM) mysock.connect((HOST, PORT)) mysock.sendall(b'GEThttp://data.pr4e.org/cover3.jpg HTTP/1.0\r\n\r\n') count = 0 picture = b"" while True: data = mysock.recv(5120) if len(data) < 1: break time.sleep(0.25) count = count + len(data) print(len(data), count) picture - picture + data mysock.close()  $pos = picture.find(b"\r\n\r'n")$ print('Header length', pos) print(picture[:pos].decode()) picture = picture[pos+4 fhand = open("stuff.jpg", "wb") fhand.write(picture) fhand.close() (b) Parsing Json 6M Program: import ison data = ""[{ "id" : "001", "x" : "2", "name" : "Chuck"} , [ "id" : "009", "x": "7", "name": "Brent"}]" info = json.loads(data)

	print('User count:', len(info))	
	for item in info:	
	print('Name', item['name'])	
	print('Id', item['id'])	
	print('Attribute', item['x'])	
e)	Explanation on SQL cursor architecture to connect, execute, and close	2M+4M
30	command of databases Example:	
	import sqlite3	
	conn = sqlite3.connect('music.sqlite')	
	cur = conn.cursor()	
	cur.execute('DROP TABLE IF EXISTS Tracks')	
	cur.execute('CREATE TABLE Tracks (title TEXT, plays INTEGERY)	
	cur execute (INSERT INTO Tracks (title, plays) VALUES (7,	
	7),(Thunderstruck', 20))	
	cur.execute('INSERT INTO Tracks (title, plays) VALUES (?, ?)',('My Way',	
	15))	
	conn.commit()	
	print("Tracks:")	
	cur.execute('SELECT title, plays FROM Tracks')	
	for row in cur:	
	print(row)	
	cur.execute('DELETE FROM Tracks WHERE plays > 17')	
	conn.commit()	
	for row in cur:	
	print(row)	
	conn.commit()	
	cur.close()	
	conn.close()	
	Fig	
	0.020	3M+3M
2.(a)	<ul> <li>Using urllib, a web page is treated much like a file. On indicating</li> </ul>	7.7
day	which web page to retrieve and urllib handles all of the HTTP	
	protocol and header details.	
	<ul> <li>Once the web page has been opened with urllib.urlopen, it can be treated like a file and read through it using a for loop.</li> </ul>	
	When the program runs, only the output of the contents of the file	
	are seen. The headers are still sent, but the urllib code consumes the	
	headers and only returns the data.	
	Program:	
	import urllib.request	
	fhand = urilib.request.uriopen('http://data.pr4e.org/romeo.txt')	
	for line in fhand:	
	print(line.decode().strip())	
	princine accordingly)	

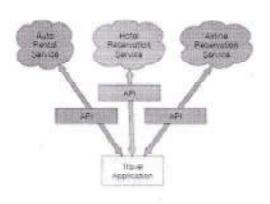
(b) Parsing XML Program: import xml.etree.ElementTree as ET input = " <stuff> <users> <user x="7"> <id>001</id> <name>Chuck</name> </user> <user x="7"> <id>009</id> <name>Brent</name> </user> </users> </stuff>" stuff = ET.fromstring(input) lst = stuff.findall('users/user') print('User count:', len(lst)) for item in 1st: print('Name', item.find('name').text) print('ld', item.find('id').text) print('Attribute', item.get('x'))

**6M** 

Application Program Interfaces (APIs): When we use an API, generally one program makes a set of services available for use by other applications and publishes the APIs (i.e., the "rules") that must be followed to access the services provided by the program.

When an application makes a set of services in its API available over the web, we call these web services.

Service-oriented architecture (SOA). A SOA approach is one where our overall application makes use of the services of other applications. A Service-oriented architecture has many advantages, including: (1) always maintain only one copy of data (this is particularly important for things like hotel reservations where we do not want to over-commit) and (2) the owners of the data can set the rules about the use of their data.



(c)

2M+4M

3.(a)	_Str method: Purpose-1M Definition using example program -2M Calling method using example program-2M Output-1M	6M
(b)	Polymorphic Function: Purpose-1M Definition using example program -2M Calling method using example program-2M Output-1M	6M
4(a)	methodsadd andmul (3M+3M) Definition using example program -2M Calling method using example program-2M Output-1M	6M
(b)	pure functions and modifiers (3M +3M) Definition using example program -2M Calling method using example program-2M Output-1M	6M
		1

Course in charge

Module Coordinator

HOD ECE



## K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109 THIRD INTERNAL TEST QUESTION PAPER 2022 – 23 EVEN SEMESTER

SET: B

Degree Branch B. E

Course Title Duration : ECE

: Python Application Programming : 90 Minutes USN 1 1 8 5 2 0 E C 0 6 9

Semester

VI A& B 18EC646

Course Code Date

4-07-2023

Max Marks

: 30

Note: Answer ONE full question from each part.

K-Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Question	Marks	CO mapping	K- Level
	PART-A		11.00000	
1(n)	Identify how socket connection can be established to the internet using python code over the TCP/IP connection and the http protocol to get the web document.	6	CO5 *	К3
(b)	Identify the differences between JavaScript object Notation (JSON) and XML	6	CO5	К3
(c)	Make use of cursor architecture and an example program to create of database table.	6	CO5	К3
	OR			
2(a)	Make use of urlib to write a python code to read the file from web and to retrieve the data of the file. Also compute the frequency of each word in the file.	6	COS	К3
(b)	Model a python program to retrieve a node present in XML tree using example program	6	CO5	К3
(c)	Develop a Python code to support for parsing HTML using regular expression.	6	COS	КЗ
	PART-B			
3 (a)	Make use of a python code to explain howint method is invoked when an object is initiated.	6	C04	К3
(b)	Make use of a python code to explain pure functions and explain.	6	C04	К3
	OR		it-	
4 (a)	Make use of python code to explain the concept of operator overloading.	6	C04	К3
(b)	Make use of a python code to explain Modifier functions and explain.	6	CO4	КЗ

Course In charge

Module Coordinator

HOD ECE

Principal



## K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109 THIRD INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER

SET - B

#### SCHEME AND SOLUTION

Degree

B. E

Semester :

VI -

Branch

Electronics & Communication Engg

Course Code :

18EC646

Course Title

Python Application

Programming

Max Marks :

30

MARKS 6M

Q.NO.	POINTS	
1.(a)	Your Program	www.ev4e.com
	socket 5	
	connect Q	Port 80 Web Pages
	send &	7

import socket
mysock = socket.socket(socket.AF\_INET,
socket.SOCK\_STREAM)

mysock.connect(('data.pr4e.org', 80))

cmd = 'GET http://data.pr4e.org/romeo.txt

HTTP/1.0\r\n\r\n'.encode()

mysock.send(cmd)

while True;

data = mysock.recv(512)

if len(data) < 1:

break

print(data.decode(),end=")

mysock.close()

6M

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'n			г
7		7	ſ

	XML (eXtensible Markup Language)	JSON (JavaScript Object Notation)
1	In XML, we can add attributes like "intl" to the "phone" tag.	In JSON, we simply have key- value pairs
2	XML includes tags like "person"	In JSON, tags are replaced by a set of outer curly braces.

	XML is complex than JSON	JSON structures are simpler than XML	
4	XML has more capabilities than JSON	JSON has fewer capabilities than XML	
4	It has start and end tags.	It doesn't use end tag.	
5	It supports namespaces.	It does not provide any support for namespaces.	
6	It doesn't support array.	It supports array.	
	execute C. U. defetchone fetchail S. O. B. C.	Clourses Members	2M=4M
	Program		
imş con cur cur cur	gram:  ort sqlite3  n = sqlite3.connect('music.sqlite')  = conn.cursor()  execute('DROP TABLE IF EXISTS execute('CREATE TABLE Tracks) execute('INSERT INTO Tracks (titl ('Thunderstruck', 20))	(title TEXT, plays INTEGER)')	3M+3M

\*

16

2.(a)	To retrieve web pages with urllib	3M+3M
	import urllib,request	
	fhand = urllib.request.urlopen('http://data.pr4e.org/romeo.txt')	
	for line in fhand:	
	print(line.decode().strip())	
	Compute the frequency of each word in the file	
	import urllib,request	
	fhand = urllib.request.urlopen('http://data.pr4e.org/romeo.txt')	
	counts = dict()	
	for line in fhand:	
	words = line.decode().split()	
	for word in words: counts[word] = counts.get(word, 0) + 1	
	print(counts)	
)	Account of the contract of the	2M+4M
4		2700000000
	( posen	
	(Harrista) (Harrista) (Harrista)	
	( ) ( )	
	Chrisch (+1.734 368.4456	
	import xml.etree.ElementTree as ET	
	data = "	
	<pre><pre><pre><name>Chuck</name></pre></pre></pre>	
	<pre><pre><pre><pre>chane</pre></pre></pre> <pre><pre>phone type="intl"&gt;</pre></pre></pre>	
	+1 734 303 4456	
	<email hide="yes"></email>	
	tree = ET.fromstring(data) print('Name:', tree.find('name').text)	
	print( Attr:', tree.find('email').get('hide'))	
	print('Attri', tree.find('phone').get('type'))	
X	Program:	
)	# Search for link values within URL input	6M
	import urllib.request, urllib.parse, urllib.error	100.00
	import re	1 2 3 1
	import ssl # Ignore SSL certificate errors	
	etx = ssl.create_default_context()	
	ctx.check_hostname = False	
	ctx,vcrify_mode = ssl,CERT_NONE	(32) H
	url = input('Enter - ')	
	html = urllib.request.urlopen(url, context=ctx).read()	

	links = re.findall(b'href="(http[s]?://.*'?)", html)	
	for link in links:	
	print(link,decode())	
	Print, and the second	
(a)	Str method : Purpose-1M	6M
	Str method _ ; Furpose-twi	
	Definition using example program -2M	
	Calling method using example program-2M	
	Output-1M	
9909	\$1,000°8000000000000000000000000000000000	
(b)	Pure functions	6M
	Definition using example program -2M	
	Calling method using example program-2M	
	Output-1M	
4 (a)	methodsaddormul	6M
4 747	Definition using example program -2M	- GLYA
	Calling method using example program-2M	
	Output-1M	
	Output-1111	
	Modifier Function	6M
(b)	Definition using example program -2M	0/41
	Calling method using example program-2M	
	Output-1M	
	Culpurin	
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		,

Course In charge

Module Coordinator

HOD ECE



### K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109 FIRST INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER

SET - B

#### SCHEME AND SOLUTION

Degree

B. E

Semester:

VI

Branch

Electronics & Communication Eng.

Course Code :

18EC646

Course Title

Python Application

Max Marks:

30

Programming

Q.NO.	POINTS	MARKS
1.(a)	Any 3 functions:	6M
	Ex:	
	stuff = list()	
	>>> stuff.append("book")	
	>>> stuff.append(99)	
	>>> print(stuff)	
	['book', 99]	
	>>> friends = [ 'Joseph', 'Glenn', 'Saily']	
	>>> friends.sort()	
	>>> print(friends)	
	['Glenn', 'Joseph', 'Sally']	2M+2M+2M
(b)	Tuples are another kind of sequence that functions much like a list -	
	they have elements which are indexed starting at 0.	1.0
	>>> x = ('Glenn', 'Sally', 'Joseph')	
	>>> print(x[2])	
	Joseph	
	>>> y = (1, 9, 2)	
	>>> print(y)	
	(1, 9, 2)	
	>>> print(max(y))	
	9	
	Tuples and assignment	
	>>> (x, y) = {4, 'fred'}	
	>>> print(y)	
	fred	

```
Tuples and Dictionaries
        >>> d = dict()
        >>> d['csev'] = 2
        >>> d['cwen'] = 4
        >>> tups = list(d.items())
        >>> print(tups)
        [('csev', 2), ('cwen', 4)]
         numlist = list()
(c)
         while True:
           inp = input('Enter a number: ')
           if inp == 'done' : break
           value = float(inp)
          numlist.append(value)
         average = sum(numlist) / len(numlist)
         print('Average:', average)
                                                                                      3M+3M
         List Traversing
2.(a)
         friends = ['Joseph', 'Dravid', 'Dhoni']
         for friend in friends:
           print('Happy New Year:', friend)
         print('Done!')
         List Slicing
         >>> t = [9, 41, 12, 3, 74, 15]
         >>> t[1:3]
         [41,12]
         >>> t[:4]
         [9, 41, 12, 3]
         >>> t[3:]
         [3, 74, 15]
         >>> t[:]
         [9, 41, 12, 3, 74, 15]
         Dictionaries creation and Indexing
(b)
         >>> purse = dict()
         >>> purse['money'] = 12
```

```
C.
        >>> line = ' Here we go '
        >>> line.strip()
        'Here we go'
        d.
        >>> line = 'Have a nice day'
        >>> line.startswith('Have')
        True
        >>> line = 'Have a nice day'
        >>> line.lower()
        'have a nice day'
        >>> line.lower().startswith('h')
        True
        >>> greet = 'Hello Bob'
        >>> nstr = greet.replace('Bob','Jane')
        >>> print(nstr)
        Hello Jane
                                                                                    6M
        Shallow equality: If the two variables refer to the same object.
(b)
        Compares only the references, not the contents of the objects. To
        find out if two references refer to the same object, use the ==
        operator.
        EXAMPLE:
        class Point:
          pass.
        >>> p1 = Point()
        >>> p1.x = 3
        >>> p1.y = 4
        >>> p2 = Point()
        >>> p2.x = 3
        >>> p2.y = 4
                                                                              1M+2M+2M+1M
         >>> p1 == p2
         False
         Even though p1 and p2 contain the same coordinates, they are not
        the same object. If we assign p1 to p2, then the two variables are
         aliases of the same object:
```

```
>>> p1 == p3
        True
        Deep equality: If objects have same contents.
        If the two variables refer to the same object, they have both shallow
        and deep equality.
        Example: Function definition to verify deep equality:
        def samePoint(p1, p2):
          return (p1.x == p2.x) and (p1.y == p2.y)
        samePoint(p2, p2)
        OUTPUT: True
        #Explanation about every command
        Functions can return instances. For example, find_center takes a
        Rectangle as an argument and returns a Point that contains the
        coordinates of the center of the Rectangle:
        def find_center(rect):
          p = Point()
          p.x = rect.corner.x + rect.width/2
          p.y = rect.corner.y + rect.height/2
          return p
        >>> center = find_center(box)
        >>> print_point(center)
        (50, 100)
4.(a)
        File Open
        Before we can read the contents of the file, we must tell Python which
        file we are going to work with and what we will be doing with the file.
        This is done with the open() function open() returns a "file handle"
        File Read
        A file handle open for read can be treated as a sequence of strings
        where each line in the file is a string in the sequence
        Use the for statement to iterate through a sequence.
        Example:
        >>> fhand = open('mbox-short.txt')
        >>> Inp = fhand.read()
        >>> print(len(inp))
        94626
```

>>> p3 = p1

#### File Write

The write method of the file handle object puts data into the file, returning the number of characters written. The default write mode is text for writing (and reading) strings.

Example

>>> line1 = "This here's the wattle,\n"

>>> fout.write(line1)

24

#### File Close

When you are done writing, you have to close the file to make sure that the last bit of data is physically written to the disk so it will not be lost if the power goes off.

>>> fout.close()

(b)

class Rectangle:

""Represents a rectangle.

attributes: width, height, corner.

ши

Instantiate a Rectangle object and assign values to the attributes:

box = Rectangle()

box.width = 100.0

box.height = 200.0

box.corner = Point()

box.corner.x = 0.0

box.corner.y = 0.0

Rectangle box  $\longrightarrow$  width  $\longrightarrow$  100.0 Point height  $\longrightarrow$  200.0  $\downarrow$   $x \longrightarrow$  0.0  $\downarrow$   $y \longrightarrow$  0.0

The expression box.corner.x means, "Go to the object box refers to and select the attribute named corner; then go to that object and select the attribute named x."

Course In charge

Module Coordinator

HODECE

Semester / Sec : VI/ A & B Dept / Branch : ECE

Subject Code : 188C646

Subject: PYTHON APPLICATION PROGRAMMING

\$1.No	SEC	USN	NAME	A1	A2	АЗ	Avg A Marks	IAI	IA2	IAB	Acg (A marks (30)	Total Marks(40)
1	Α	1K519fC026	ERAM FATHIMA	10	10	10	10	21	26	10	19	29
2	Α	1K519EC034	HIMA SWETHA S	10	10.	10	10	26	29	22	26	36
3	Α	1K520EC001	ARHISHEK 1	10	10	10	10	26	17	17	20	30
4	Α	1KS20EC002	Aditi dubey	10	10	10	10	30	- 29	30	30	40
5	A	1KS20EC003	AFEEFA SHARDEFF	10	10.	10	10	78	29	16	25	35
6	A	1882060004	Ajay B G	10	10	10	10	23	27	18	23	33
7	A	1K520EC006	Akash M	10	6	10	91	2.3	. 24	18	22	3.2
8	A	1KS20EC008	B.S.HEMASHREE	10	10	10	10	15	25	22	21	-31
9:	A	1KS20EC009	BHARATH M	- 5	5	0	4	2.2	10	12	15	19
10	A	1852000010	Bhavithe, B	10	10	10	10	1.8	30	16	22	32
11	A	1KS20EC011	Bhuvaneshwari k	10	10	10	10	25	26	21	24	34
12	A	1K520EC012	Chaitanya k	10	10	10	10	2-4	-18	14	19	29
13	A	1KS20EC013	CHAITHRA K	10	10	10	10	23	24	22	23	33
14	А	1KS20#C014	C. Sai Srujitha	10	4	10	8	29	21	20	24	32
15	A	1K520EC015	C.Umadevi	10	-10	10	3.0	28	24	20	24	34
16	Α	1KS20EC016	Chaya. S	10	10	10	10	28	30	15	25	35
1.7	Α	1K520EC017	Chethan G	10	4	10	8	16	19	20	19	27
18	А	1KS20CC018	Chethankumar J	10	10	6	9	14	12	7	11	- 20
19	A	1KS20EC019	CHETHAN KUMAR T	8	6	10	8	22	17	11	17	75
20	А	1KS20EC020	DARSHAN K	10	6	10	9	2.2	-29	18.	-23	32
21	Α	1K\$20EC021	DARSHAN KUMAR S	10	10	10	10	29	27	14	24	34
22	Α.	1KS20EC023	Dhamini. 1	10	10	10	10	26	15	13	18	28
23	Α	1KS20EC024	Ohruva Kumar 5	10	10	5	9	19	-21	19	20	29
24	A	1KS20EC025	Divya .N	10	10.	10	10	21	27	17	22	32
25	A	1K\$20EC026	Eshwar Biradar	10	10	H	10	18	15	15	16	26

26	A	1K520EC027	DOLYADADEHTMI	10	10	10	10	29	50	20	27	37
27	A	1KS20EC028	Gagan.H.C	10	10	10	10	16	21	19	19	29
28	Α	1KS20EC029	Gagana B S	10	30	10	10	71	30	9	20	30
29	A	1K52000030	Gandhamani C M	10	10	10	10	25	30	25	27	37
30	A	1KS20EC031	Comitha R C	10	10	10	10	25	26	21	24	34
31	Α	1KS20EC032	Harini k	10	10	9	10	23	24	17	22	32
32	А	1KS20EC033	Harshith gowda AR	1.0	10	7	9	19	24	24	23	32
33	Α	1K520EC034	Harshitha.B.L.	10	10	10	10	24	25	19	2.3	33
34	A	1KS20EC035	Harshitha.3	10	1.0	10	10	21	26	25	24	34
35	A	1KS20EC036	HARSHITHA N	10	10	10	10	25	30	25	27	37
36	A	1KS20EC037	Inchara. P	10	10	10	10	21	29	31	21	31
37	Α	1KS20CC038	Chaithanya krishna.3	1.0	20	10	10	16	25	35	19	29
38	A	1KS20EC039	Jamona s g	10	10	10	10	23	30	22	25	35
39	A.	1KS20EC040	Janhavi r	10	10	10	10	29	30	21	27	37
40	A	1KS20EC041	JAYANTH. H	10	10	10	10	26	24	24	25	35
41.	A	1882010042	K Jeevitha	10	10	10	10	29	28	24	27	37
42	A.	1KS20EC043	K.M.Amshumenth	10	20	10	10	30	30	23	28	38
43	A:	1KS20EC045	Kavana.G.S	10	- 5	8	8	37	18	30	15	23
44	A	1KS20EC046	Kavya S M	10	10	10	10	27	30	21	26	36
45	- A	1KS20EC047	Keerthana 85	10	10	10	10	17	16	13	16	26
46	A	1KS20EC048	Kiran Dev D	10	10	10	10	26	24	23	25	35
47	A	1KS20EC049	KIRAN V NARAYAN	10	10	10	10	28	30	22	27	37
48	A	1KS20EC050	KODIDELA, PRATHIMA	10	10	10	10	24	26	29	27	37
49	A	1KS20FC051	KUMARKG	10	1.00	. 0	7	24	26	28	26	33
50	A	1KS20EC052	Kusuma VR	10	10	10	10	24	24	28	26	36
51	A	1KS20EC053	H.Archana	10	10	10	10	23	23	26	24	34
52	А	1KS20EC054	MADIHA	10	-8	ın	10	21	30	13	22	3.7
53	Α	1KS2000055	MAHESH BIRADAR	10	10	9	10	.20	23	16	20	30
54	A	1KS20EC056	MANASWINI KM	10	10	10	10	. 15	20	24	20	30
55	A	1KS20EC057	Meghashree.M	10	10	10	10	28	28	29	29	39
56	A:	1KS20EC058	MOHAN KRISHNA K	10	10	10	10	27	30	.9	22	32
57	8	1K520EC059	Nutrreya	10	10	10	10	26	29	30	29	39

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58	8	1KS20EC060	NALLANI GOWTHAMI	10	5	10		12	18	10	14	23
9	8	1KS20EC061	NEHA CR	10	10	10	10	22	30	2.2	2.5	35
GØ	0	1852000062	NEHA NAGARAJ AIRANT	10	10	10	20	25	30	7	21	31
61	8	1KS20EC063	VASANTH Kumar	10	. 5	9	7	18	33	14	15	22
62	8	1K520EC064	PAVAN.C	5	- 25	-5	:5	21	36	10	16	21
63	В	1KS20EC065	Pavasi TS	10	10	10	10	22	27	17	22	32
64	U	18820EC066	Pradhyumna S Kashyap	10	10	8	10	21	29	23	25	35
65	В	1ks20ec067	Praveen D B	10	-15	5	- 7	24	28	19	24	31.
66	В	1KS20EC068	Prema G	10	10	10	10	28	29	29	29	39
67	R	1KS20EC069	PRIYANKA.H C	10	8	8	9	9	-6	14	10	19
68	В	1852000070	PRIYANKA K	-10	10	10	10	29	27	15	24	34
69	В	1KS20EC071	Priyanica, M	10	6	10	9	24	301	20	25	34
70	В	1K520EC072	Pushpa DT	10	10	7	.9	15	15	.6	12	21
71	6	1KS20CC073	RAHUL KRISHNAN V	30	10	30	1.0	77	28	18	23	33
72	В	5KS20EC074	RANGE R	10	4	10	8	17	14	- 3	12	20
73	8	1K520EC075	BAZATH K ACHAR	10	10	8	10	24	27	22	25	35
74	8	1KS20EC076	Rakshith NM	1,0	10	10	10	15	26	18	20	30
75	8	1KS20EC077	RAKSHITH.R	10	10	10	10	22	29	22	25	35
76	8	1KS20EC078	Rakshitha A	10	8	10	10	26	29	27	28	38
77	8	1KS20EC079	RAMESHWAR	10	. 8	10	. 10	1.8	3.8	19	19	29
78	В	1KS20EC080	Ваптуа Т	10	10	8	10	20	26	25	2.4	34
79	8	1KS20EC082	Robit A.k	10	30	10	10	12	- 6	10	9	19
80	В	1KS20EC083	5 Arun Kumar	.10	10	10	10	-20	-28	71	23	33
81	8	1KS20EC084	Sachin NM	1.0	10	10	10	7	16	12	12	22
82	В	1K520EC085	SADHANA.SRINIVAS	10	30	10	10	.22	28	17	23	33
83	В	1KS20EC087	Sandeep Y H	10	. 10	10	10	20	23	18	21	31
84	В	1KS20EC089	Sanjana.6	10	10	10	10	29	26	23	27	37
85	В	1K520EC091	Sanjana T Gadikar	10	10	.8	10	24	20	19	21	31
86	8	1KS20EC092	Shakthi Anbazhagan M	10	10	10	10	26	30	26	28	38
87	8	1KS20EC093	Sharath M	3.0	10	10	10	23	22	19	24	34
88	8	1KS20EC094	SHASHANK S	10	10	10	10	. 23	27	18	23	33
89	8	1K520EC095	SHIVAREDDY & A	10	10	10	10	22	22	26	24	34

90	B	1K520EC096	Shreya II Padmanabha	3,0	10	10	10	23	30	23	26	36
91	В	1K520EC097	Shreyas M S	10	10	10	10	18	25	10	18	28
92	В	1KS20EC098	Shreyas p s rao	10	10	10	10	15	22	17	18	28
93	8	1KS20EC099	SHWETA DEEPAK K	30	10	10	10	24	30	22	26	35
94	В	1KS20EC101	SONIKA.R	10	10	10	10	28	28	17	25	35
95	D	1KS20EC102	SUMANA N	10	10	20	10	29	30	24	28	38
96	В	1KS20EC103	SUMUKHA,S	10	10	7	9	22	29	16	23	32
97	15	1K\$20EC104	SURAKSHA.N	10	10	10	10	28	30	30	30	40
28	(8)	1KS20EC105	Tarun Presenne	30	10	30	10	25	28	22	25	35
99	B	1KS20FC106	TEIAS N REDDY	10	5	. 0	5	21	36	17	18	23
100	В	1KS20EC107	T.GIRISHCHOWDARY	10	10	10	10	13	22	7	14	24
101	8	1KS20EC108	Uday C H	10	10	20	10	29	30	23	28	38
102	8	1KS20EC109	UJJWAL NAIDU	10	10	10	10	17	21	14	18	28
103	8	1KS20CC110	VAISHINAVI A	10	10	10	10	24	.28	26	27	37
104	В	1KS20EC111	Valshnavi.V.H	10	10	20	10	22	25	22	23	33
105	8	1KS20EC112	N Varsha	10	10	9	10	25	30	18	25	35
106	8	1KS20EC113	Vijeyalokshmi K	30	10	20	20	23	25	18	22	32
107	0	1882080114	VINAY S P	10	10	10	10	19	30	23.	74	34
108	В	1KS20EC115	VINAY SAGAR V ALUR	10	-9	10	10	9	16	8	11	21
109	TI.	1KS20EC116	VINEETH M S	10	10	. 8	10	21	23	12	19	29
110	В	1KS20EC117	YASHILAA.S	10	10	10	10	24	29	A	18	28
111	ъ	1K\$20EC118	YASHWANTH Y	10	10	-8	10	23	30	26	27	37
112	8	1KS21EC401	SUDEEP V	10	5	. 5	. 7	10	070	17	12	19

#### K. S. INSTITUTE OF TECHNOLOGY

#14, Raghuvanaballi, Kanakapura Main Road, Bengaluru-5600109

#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

#### 2022-23 EVEN SEMESTER

List of students who are identified as slow learners and their marks in every internal Subject and Subject Code: Python Application Programming/18EC646
Semester and Section: VI /A &B

Si Ma	usn	NAME	First Test Marks Gion	Remailal Ca Retes & Attrovious	190.	improvem ent Test Marks (30)	Second Test Marks (30)	Remedial Dates & Attendure		more more Test Marke	Third Test Marks (970	Improveme nt Test Marks	PINAL (NO)
			Later	27/4/23	58771	430	1941	34/6/29:	22/6/29:	1301	2019	1901	
as.	1452010005	A00151(0C)	11	14	. E	20	10	P		200	10	240	-30
Œ.	1852000014	C. Sal Sruphu	-10	1.00	W.7	20	21			Tall:	20		24
03	18520000118	Chethankungr I	34	76	Y:	All	ÚF.	98	65	12	70	1	-11
04	tesagecase	Herbritis.	15	(p)	3.	23	-34		-	12.0	17	-	/39
35	1482090039	HARSHITHA N	3.0			45	30	Y	17		25		23
œ.	.D652060067	Keerthana 95	00	Þ	100	17	16	40		Gr I	13	11 /11	16
er.	(HSZBEKOS)	MANAGARINI RM	34	576	1 65	39	200	7	0.0	30	246	-	:20
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00	060000000	Visiant Number	(4)	16	P	38	33		1		- 14	-	25
10	1000000004	PANAN.C	187		p.:	210	36	W.	Tr.	a:	10	727	16
ji,	18SADEEOUS	Paranitis .	10	79	10	22	20	9/:	p.	100	12	-	-22
13	1000000000	Process Triff.	- 3		P.	34	36	p	P		19		24

13.	1883576260	PROSESSED IN E.	1	p.	P	6.	6	1	*	1.12.11	-14	1.7	10
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15	18/03/08/06/2	Rollin A. K.	0		P	18.	5	SET !	19	пан	190		90
16	1KS20H0084	Section Wild	9	Tr.		100	160	100	- 0	E PC	12		32
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20	1852000507	T. GERICH CHOWDARY	13/	P		В	22	p-:	cyco	1	7.	*:	34
21	26530EC113	VINAY SAGAR V	¥	00		AR.	36	<i>V</i> .	1/06/15	111		u u	311
22	1852160801	SUDDEFY	7	F	. pr	10:	7		1.0		47		33

Signature of the Faculty

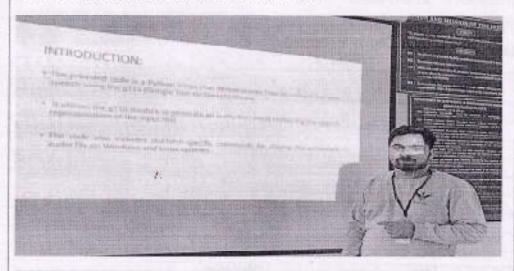
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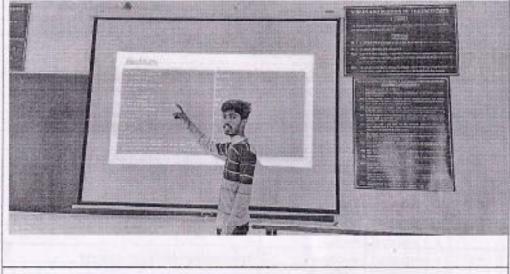


### K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109 DEARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING CONTENT BEYOND SYLLABUS

Academic Year	2022-23 (Even)	
Name of the Faculty	Dr. Surekha Borra	
Course Name /Code	Python Application Programming/18EC646	
Semester/Section	VI/A &B	
Activity Name	Poster Presentations	
Topic Covered	All Modules	
Date	25/3/2023 to 30/06/23	
No. of Participants	105	
Relevant PO's	9,10,12	

Proofs (Photographs/Videos/Reports/Charts/Models)





SI. No	Details	Date
l.	Date of issue of topics for presentation	25/3/23
2.	Dates for Appeal/challenge (on or before)	28/3/23
).	Last date for the submission of the Project Code	8/6/23
1.	Last date for Demo Presentation	10/6/23
5.	Date of announcement of evaluation	30/6/23

#### Note:

- 1. Projects should be helpful to society
- 2. Assignments marks will not be given if submitted on later dates or failed to present a seminar/demo.

#### Rubrics/Evaluation Strategy

SI. No	Criteria	Marks		
1.	Results	10		
2.	Quality of Team Demo	5		
3.	Quality of Code	5		
4.	Usefulness to society/environment	5		
5.	Individual Contribution to Project	S		
6.	Individual Contribution to Report	5		
7.	Tool Learning	5		
	Total	40 (Scale the Marks to 10)		

SI.No.	Team No.		USN	Name	Title of Project
1	T-1	1	1K520EC036	HARSHITHA. N	Banking Sytem
2		2	1KS20EC034	HARSHITHA, BL	
3		3	1K520EC035	HARSHITHA. J	
4		4	1KS20EC032	HARINI K	
.6	T-2	1	1KS20EC025	Divya.N	Library Management System
6		2	1KS20EC023	Dhamini J. Naidu	
7		3	1X520EC010	Bhavitha.B	
8	T-3	1	1K520EC015	C. Umadevi	Online digital voting system using python
9		2	1KS20EC050	K. Prothims	
10		3	1K\$18EC026	Fram Fathima	
11		A	1KS20EC060	N Gouthami	
17	T-4	1	1KS20EC042	K Jeevitha	Face detection and counting
13		2	1K520EC046	Kavya 5 M	
14		3	1KS20EC054	Meditur	9
15	T-5	1	1KS20ECC002	Adti Dubey	Data visualization of Covid-19 Cases in India
16.		1	18520EC030	Gandhamani	A CONTRACTOR OF THE PROPERTY OF THE PARTY OF
17		3	1K\$20EC057	Meghashree	
18	T-0	1	1K320EC033	M.Archane	Units converter
19		2	1K520E0047	Keerthana.b.s	V

20		3	1K520EC014	C.Sai Srujitha	
21		4	18320EC038	J.Chaithanya Krishma	
72	1-7	1	18520EC039	JAMIUNA SG	Employees number tracking
23		2	3KS20EC040	BINAHAL	
24		3	3KS20EC0S6	MANASWINI KM	
25	T-9	1	1K520EC077	Rakshith R	Language Translator using Python
26		2	1K520EC093	Sharath M	
27		3	1KS20EC10B	Uday CH	
28		4	1852060008	Shroyas P.S.Rau	
29	T-9	1	1851966034	Mma swetha	Health and Fitness Calculator
30		2	1KS20EC008	Bs. Hama divee	
31		3	1KS20EC013	Cheitra k	
32	T-10	1	1KS20EC070	Priyanka K	ATM Simulation
23		2	1KS20EC083	5 Arun kumar	
34		3	1KS20E008S	Sadhana srinivas	
35		4	1K520EC092	Shakthi Anbazhagan M	
36	I-11	1	1KS20EC001	Abhishek J	Object Weight Calculation
57		2	1KSZOECD17	Chetan G	
38		3	1K\$2000018	Chetan Kumar J	
39		4	1KS20EC819	Chistan Kumar T	
40	T-12	1	1K520CC111	VAISHNAYI VH	QR CODE GENERATOR USINS PYTHON
41		2	1KSZ06C113	VUAYALAKSTIMI K	
42		3	1K5306C117	YASHILAA S	
49	1-18	1	1852060026	Ethwar Biradar	Make a clock using python programming
44		2	UKS20ECOUR	Kiran Dev D	
45		3	1KS20EC052	Kosoma V R.	
46		4	1KS20EC055	Mahash Biradar	
47	T-14	1	1KS20EC062	NEHA NAGARAJ AIRANI	Password Compliance Checker
48		2	1KS20EC112	N Varsha	
49		3	1KS20ECD8D	Ramya T	
50	T-15	1	1KSZ0EC073	Rahul Krishnan V	Python Weather Forecasting
51		2	1K520EC103	Sumukha 5	1.4
52		3	1KS20EC105	Tarun Prasanna	
53		4	1K3ZQEC10E	Tanjas N Heddy	
54	T-16	1	1K520EC084	Sachin NM	Air Quality Index Tracker
55		z	1K520EC087	Sandeep YH	
56		3	1KS20EC109	Ujjwal Naidu	
57		4	1K\$20EC114	Vinay SP	
58	7-17	1	несовесска.	Prema G	Random Geometric Patten
59		2	1KS20EC079	Rameshwar	

60	_	3	1KS20EC054	Shashank \$	
61		4	1KSZ8EC097	Shreyas MS	
0.00	T-18	1	1KS206CB43	Amshumanth.k.m	TEXT TO SPEECH CONVERTER
62	1-40	2	1KS20EC049	Kiran v narayan	
	_	3	1KS20EC051	Kumar ka	
65		4	18S20EC058	Moham krishna	
	T-19	1	1K520C080	Ni Shreya	Generation of Contact Book
67	1-22	2	1K520EC076	Rekshith NM	
68		3	1KS20EC101	Sonika R	
69		4	18S20EC104	Suraksha N	
A TOURS	T-20	1	1KS20EC066	Pradhyumna SK	Dolfy Expenses Entry
70	1-20	2	1KS20EC075	Rajath KA	
71	-	3	1K520EC116	Vineeth M5	
-	_	4	1KS20EC118	Yeshwarith Y	
73	T-21	1	18320EC061	Neha CR	BMI Calculator
74	1-21	2	1K520EC065	Payani TS	
75	_	3	1K520EC071	Priyanka M	
76	_	4	1K520EC072	Pushpa DT	
77	T-22	1	1KS20EC024	Dhruva Kumor S	Currency Converter
76	3-26	2	1KS20EC028	Gagan HC	
79		-	1K520EC033	Harshith Gowda AR	
80		3	The second secon	Javanth H	
81	- Arab	4	1K520ECB41	Ajay 85	Expenses Tracker GUI with Calender
82	T-23	1	1KS20EC004	- And Colored Total	September 1997
83		2	1KS20EC006	Alcash M	
84		3	1X320EC016	Chaya S	Speech to Text Converter
85	T-24	1	1KS20EC021	Darshan Kumar S	-appealing reac connection
86		2	1K520EC027	G Bhavana P	
87		3	1K520EC031	Gomitha 8C	
88	T-25	1	1KS20EC095	Shiva Reddy	Movie ticket booking system
89		2	1KS20EC096	A SECURE OF THE PARTY OF THE PA	
90		3	1K520EC099	Shwota Deepak	
91	T-26	1	1K520EC089	Sanjana G	Morse code translator
92	1.00	1 2	1KS20EC091	Sanjana TG	THE STATE OF THE S
93		3	1KS20EC102	Sumana N	
94		4	18520EC110	Valshnavi A	and the second s
95	T-27	1	The second second second second second	T Girlsh Chowdory	Donation Tracker
_	T-28	1	- 1 STOTE - CLEEK	The second secon	Income Tax Colculation
96	1-26	2	The second secon	and the latest and th	
	7.30	1		The state of the s	Denation Report Generator
98	T-29	2	and the same of th	A STATE OF THE PARTY OF THE PAR	
99	_	3	The second secon		
100		4	The second secon	The second secon	
101	T-30	1		1,100	Youtube mp4 downloader
102	1-30	-	The second second		
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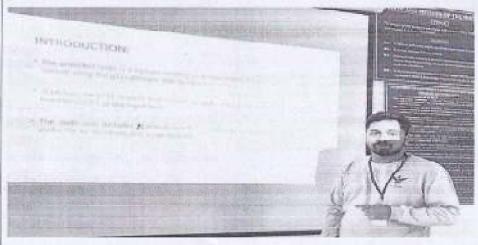
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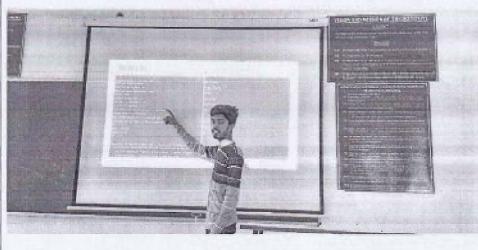


#### K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560 109 DEARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING CONTENT BEYOND SYLLABUS

2022-23 (Even)	
Dr. Surekha Borra	
Python Application Programming/18FC646	
VI/A &B	
Poster Presentations	-
All Modules	
25/3/2023 to 30/06/23	
105	
9,10,12	
	Dr. Surekha Borra Python Application Programming/18FC645  VI/A &B Poster Presentations All Modules 25/3/2023 to 30/06/23 105

Proofs (Photographs/Videos/Reports/Charts/Models)





SI, No	Details	Date
1.	Date of issue of topics for presentation	25/3/23
2.	Dates for Appeal/challenge (on or before)	28/3/23
3.	Last date for the submission of the Project Code	8/6/23
4.	Last date for Demo Presentation	10/6/23
5.	Date of announcement of evaluation	30/6/23

- 1. Projects should be helpful to society
- 2. Assignments marks will not be given if submitted on later dates or failed to present a seminar/domo.

### Rubrics/Evaluation Strategy

SI. No	Criteria	Marks	
1.	Results	10	
2,	Quality of Team Demo	5	
3	Quality of Code	- 5	
4.	Usefulness to society/environment		
5.	Individual Contribution to Project	-	
6.	Individual Contribution to Report	E .	
7.	Tool Learning	-	
	Total	9	
		40 (Scale the M	arks to 10)

SI.No.	Team No.		USN	Name	Title of Project
1	1-1	1	1K\$20ECH36	HARSHITHA N	100000000000000000000000000000000000000
2		2		HARSIETHIA BL	Barleng Sylem
3		3	3H520EC035	HARSHITHA I	
4		4	1KS20EC032	HARINIK	
5	J-Z	1	1K520EC025	Divya N	Library Management System
6		2	1X\$20EQ023	Ohumini J Naidy	3,000
7		2	LMS2DEC019	Blievens.B	
8	1-3	1	18520FC015	€ Umadori	Drvine digital voting system using bython
9		2	1K520EC058	K. Prothins	The state of the s
10		3	1K519EC026	Eram Fathima	
11		4	1/02060060	N.Gouthami	
12	T-4	1	1K230EC045	K Josvitne	Face detection and counting
13		2	1KS20EC046	Kroya S M	The state of the s
ā.		1	1KSZ0EC054	Mediha	
5	T-5	1	1KS20ECUQZ	Aditi Dubey	Data visualization of Court 10 Cases in India
16		1	18520EC030	Gandhamani	Service of the servic
9		3	1KS20ECO57	Meghashree	
R	T-6	1	1852050053	M.Archana	Units converter
9		2	18S20EC047	Keerthana.b.s	1.5.1.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5

20		3	1KS20EC014	C.Sai Snejiths	
21		4	18520EC038	1.Chaithanya Crahna	
22	7-7	1	18S20EC039	JAMUNA SG	Employees number tracking
23		2	1KS20EC040	JANHAVI R	
24		3	1KS20EC056	MANASWINIKM	
25	1-0	1	1K520EC077	Rakuhitis R	Language Translator using Python
26		Z	1K5200C093	Sharath M	
27		3	1852000100	Uday CH	
28		4	185200,0098	Shreyas F S Ras	
29	1-6	1	1KS19E0034	Hima swetto	Health and Fitness Calculator
30		2	2KS20EC008	Sc. Herna shree	
31		3	1K520EC013	Chaitra k	
12	T-10	1	1K\$28EC070	Priyanka K	ATM Simulation
33		2	1K520EC083	5 Arun kumar	
34		3	1KS20EC085	Suchana srinivas	
35		4	1KS2060002	Shakani Antuchagan M	
36	T-11	1	3K\$20E0003	Abbithek i	Object Weight Calculation
17		2	1KS200C017	Chetan G	
38		3	1K528EC018	Chetan Komar J	
39		4	TR250EC010	Chetan Komar T	
40	T-12	1	1KSZ0EC111	VAISHBAW VH	OR CODE GENERALOR USING PYTHON
41		2	16520EC113	VIIAYALAIS INT E	
62		1	1652066117	YASHILAA S	
43	Y-13	1	1X520EC026	Eshwar Biradar	Make a clock using python programming
44		2	1XS20E0048	Kiran Dev D	
45		3	1K520EC052	Kusuma V.A.	
46		4	LK\$20EC055	Mahesh Bradar	
47	T-14	1	1K520EC062	NEHA NAGARALAIRANI	Password Compliance Checker
48		2	18520EC112	N Varsha	
49		1	1832000090	Ramya T	
50	T-15	1	18520E0073	Rahul Krishron V	Python Wisither Eurocooling
51		2	1KS20EC103	Sumukha 5	0.00250
52		3	1K520EC105	Tarun Prasanna	
53		4	1KS20EC106	Taejas N Reddy	
\$4	T-16	1	TKS20EC084	Sachin NM	Air Quality Index Tracker
55		2	1KS20EC087	Sandrep YH	
55		1	1832050109	Ujjecil Naidu	
57		4	1852000114	Vicay SP	
58	T-17	1	1KS20EC068	Prema G	Random Swametric Parties
59		2	1K520EC079	Ramgehwar	

60		3	1KS20EC094	Shashank 5	
£X.	1.0	4	1813065097	Shreyas MS	
62	T-18	1	1KS20EC043	Amshumanth.k.m	TEXT TO SPEECH CONVENTION
63	1.7.46	2	1K528EC049	Kiran u nacayan	TEXT TO APPEL WILLIAM STREET
64		3	1K520EC051	Kumar ke	
65.	1-23-	4	1KS20ECB58	Mohan krehna	- N
00.	T-19	1	18520EC059	N Shreya	Generation of Contact Book
67		2	18520EC076	Bakshith MM	SUMMER BY CONTRACT TROOPS
68		3	18520EC101	Sonika R	
69		4	1852060104	Suraksha N	
70	T-20	1	18520EC066	Pradhyumna SK	Daily Expenses Entry
71	1	1	1KS20EC075	Raiath KA	ind is a second of
12		3	1KS20EC116	Vineeth MS	
73		4	1K520EC118	Yeshwanth Y	
74	T-21	1	1K\$20EC061	Noha CR	BMI Calculator
20		2	1K\$2000065	Pavam T5	The state of the s
×		3	18520EC071	Priyansa M	
37		4	18/S20EC072	Pushpa DT	
78	7-22	1	1KS20E0024	Dhruva Kumar S	Currency Curwerter
79		- 2	18S20EC028	Gagan HC	
80		3	1H520E0933	Harshistr Gowile Alt	
81		- 4	1KS20EC041	Jayanth H	
87	1-23	1	1KS20EC004	Acay BG	Expenses Tracker SQL with Calendar
83		2	1852050006	Alceh M	The state of the s
84		3	1KS20EC016	Chayd 5	
B5-	T-24	1	18S20EC021	Darstran Kumar S	speech to Fest Convertar
85		1	18520EC027	G Bhavana P	SPECOT IN TEST CONTROLS
87		3	1KS20EC091	Gamitto BC	
88	7.25	1	1K220Econs	Shive Roddy	440000000000000000000000000000000000000
39		2	1K520EC096	Sinerati	Movie ticket housing system
90		3	1KS20EC099	Shweta Despak	
91	T-26	1	1K520EC089	Saniana G	Morte code translator
92	7 200	2	1K\$20EC093	Samples TG	J Nedriae code translator
93		3	1K520EC102	Sumana N	
94		4	18520EC110	Vaishnayi A	
95	T-27	1	14320EC107	T Girish Chowdary	Over the Land Co.
96	T-28	1	-		Donation Tracker
57	1-28	-	1452660037	Inchara P	Meamer Tax Calculation
98	7.70	2	1K250EC029	Gogana 83	
99	T-29	1	1KS20ECO03	Afeela	Obsation Report Geramator
100		2	LKS20EC011	Bhuyaneshwari	
101		3	1KS20EC012	Chaitanga	
102	T-30	4	1KS20ECB20	Darshan K	
101	1-40	2	1852050074	Rahylir	Youtuge man drawn made:
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104		3	1#520EC082	Rohit a li	
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## K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109 DEARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING TEACHING AND LEARNING

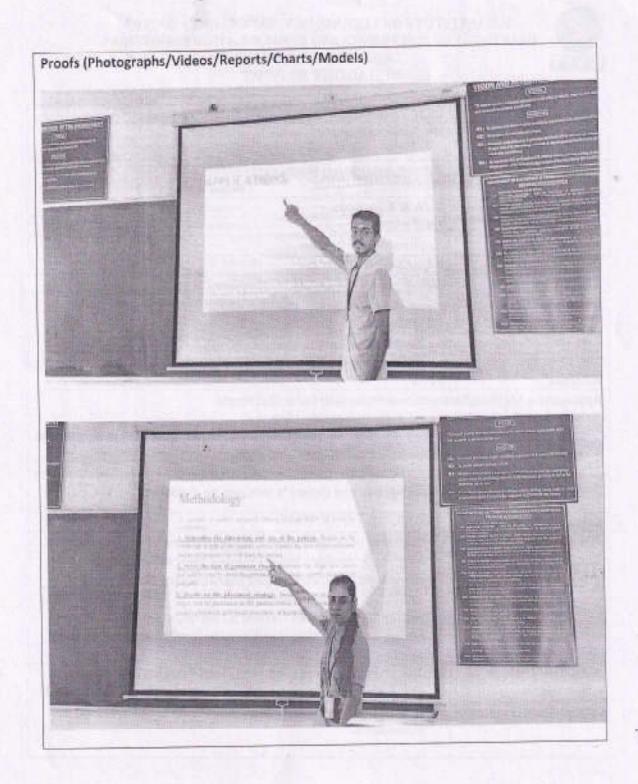
#### PEDAGOGY REPORT

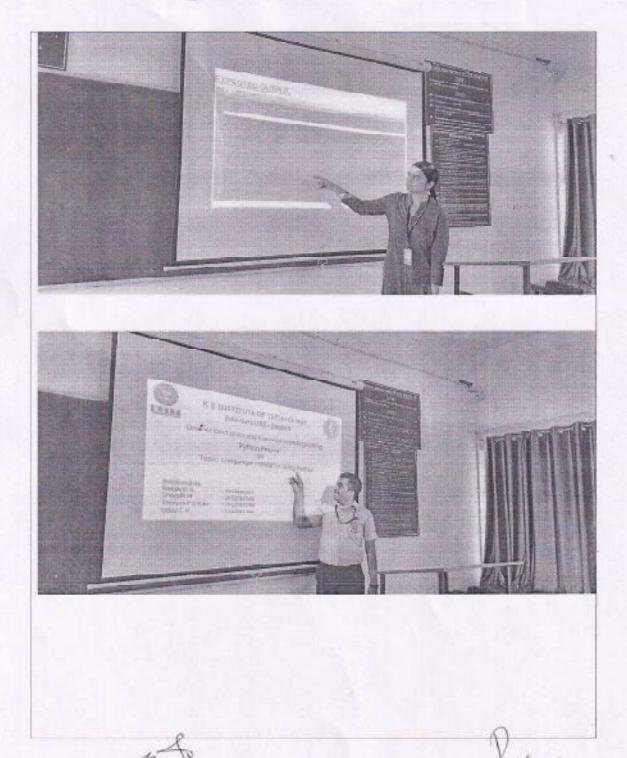
Academic Year	2022-23 (Even)			
Name of the Faculty	Dr. Surekha Borra			
Course Name /Code	Python Application Programming/18EC646			
Semester/Section	VI/A & B Sections			
Activity Name	Mini project			
Topic Covered	Applications of Python			
Date	20/4/2022 to 15/7/22			
No. of Participants	105			
Objectives/Goals	<ul> <li>To improve the self-learning and programming skills of students</li> <li>To improve the communication skills of students.</li> <li>To improve the ICT usage skills of students</li> </ul>			
ICT Used	PPTs			

### Appropriate Method/Instructional materials/Exam Questions

- Initially delivered lecture on python Programming.
- Later students were asked to pick any application of their interest, program the
  application, prepare PPT, present the PPT and give demo.
- Students are given with additional information/templates, sources from which they can select the topics, prepare, program, and deliver a seminar on the same.

Relevant PO's	1,2,3,4, 5,6,7,9,10,11,12
Significance of Results/Outcomes	<ul> <li>Students tried to explore the applications of programming languages, modern tools, improve their self-learning, communication, and project management skills as an individual and team member.</li> <li>Around 105 Students formed 30 teams, submitted python codes, delivered their presentation, and gave demo of their apps.</li> </ul>
Reflective Critique	<ul> <li>The activity improved the self-learning of students.</li> <li>The activity provided a platform for students to interact with peers, improve their communication skills and work as individuals.</li> </ul>





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## K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109 DEARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING TEACHING AND LEARNING PEDAGOGY REPORT

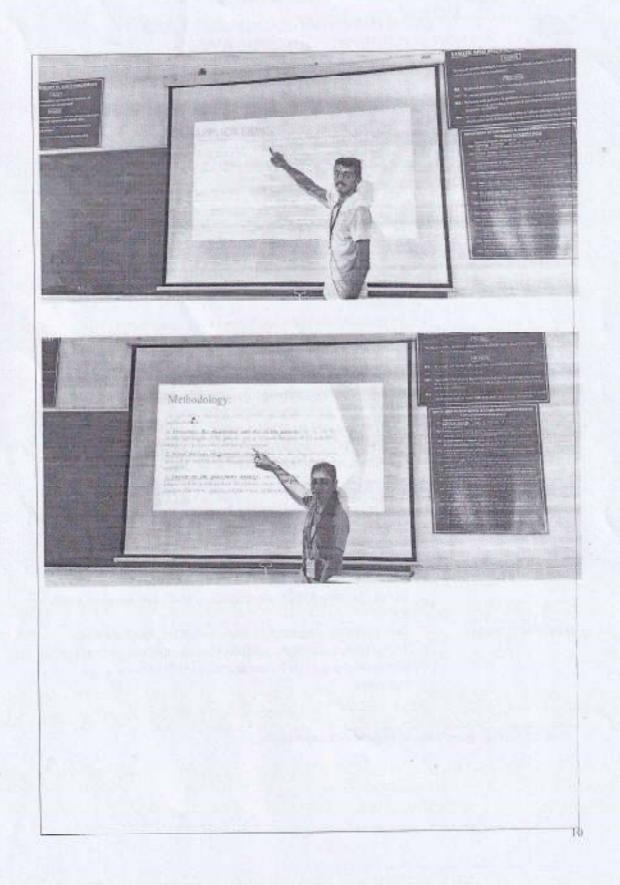
2022-23 (Even)	
Dr. Surekha Borra	
Python Application Programming/18EC646	
VI/A & B Sections	
Mini project	
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105	
To improve the self-learning and programming skills of students  To improve the communication skills of students.  To improve the ICT responsibility of students.	
To improve the ICT usage skills of students  PPTs	

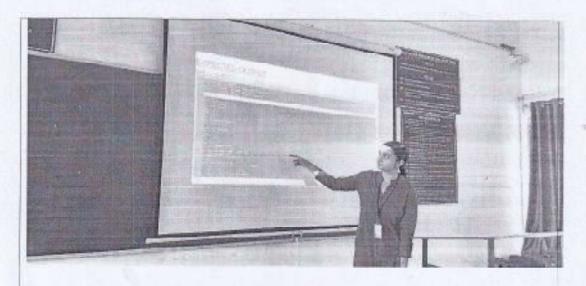
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Relevant PO's	1,2,3,4, 5,6,7,9,10,11,12	
Significance of Results/Outcomes	<ul> <li>Students tried to explore the applications of programming languages, modern tools, improve their self-learning, communication, and project management skills as an individual and team member.</li> <li>Around 105 Students formed 30 teams, submitted python codes, delivered their presentation, and gave demo of their apps.</li> </ul>	
Reflective Critique	<ul> <li>The activity improved the self-learning of students.</li> <li>The activity provided a platform for students to interact with peers, improve their communication skills and work as individuals.</li> </ul>	

Proofs (Photogra	hs/Videos/Reports/Charts/Models)







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# KS INSTITUTE OF TECHNOLOGY BANGALORE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING PYTHON APPLICATION PROGRAMMING QUESTION BANK MODULE-1

- 1. What is Python? and List some features of Python.
- Use try and except so that your program handles non-numeric input gracefully by printing a message and exit the program.
- 3. Explain in detail the building blocks of a program. State the need for functions in Python.
- 4. What are the differences between C and Python?
- Explain Syntax errors and Logic errors. Write a program which prompts the user for a Celsius temperature, convert the temperature to Fahrenheit and print out the converted temperature.
- 6. Explain built-in datatypes of python.
- Explain the type of function arguments in Python.
- List some built-in modules in Python and explain with suitable example.
- 9. Explain the function definition and function calling in Python.
- 10. Explain variable names, keywords, operators, operands, and order of operations with examples.
- 11. Explain break and continue statements with examples in Python. Write Pythonic code that iteratively prompts the usef for input. It should continue until the user enters 'done' and then return the average value.
- Briefly describe the methods of regular expression.
- 13. How to comment specific line(s) in Python program? and Define Quotations
- 14. Give the syntax and significance of raw\_input() and input() methods.
- 15. Briefly explain the input and output functions used in python.
- 16. Differentiable interactive mode and script mode.
- 17. List the various data types in python and define the scope of the variable.
- 18. Write the syntax of if and if-else statement. Develop a program to find the largest among three numbers.
- Define operator & operator precedence. Discuss about the arithmetic, assignment, comparison, and bitwise operators with examples.
- 20. Briefly discuss about the looping techniques in Python with suitable examples.

## KS INSTITUTE OF TECHNOLOGY BANGALORE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING PYTHON APPLICATION PROGRAMMING CHALLENGING QUESTIONS

#### MODULE-1

- Briefly discuss about the types of decision-making statement.
- Explain the concept of short circuit evaluation of logical expressions in Python. Write a program to prompt
  the user for a score between 0.0 and 1.0. If the score is out of range print an error. If the score is between 0.0 and =
  1.0, print a grade using the following table:

Score	Grado
>= 0.9	Α
>= 0.8	В
>= 0.7	C
>= 0.6	D
< 0.6	F

- Write Python program to swap two numbers using functions. (Write without using intermediate/temporary variables). Prompt the user for input.
- Find the area and perimeter of a circle using functions. Prompt the user for input.
- Write a Python Program to check whether a number is prime or not using while loop and print appropriate messages.
- Write Pythonic code to multiply two matrices using nested loops and print the result.
- Write a Python program to print Fibonacci series upto n terms.
- 8. Write a Python program to check whether the given no is Armstrong or not using user defined function.
- Write a Python program to search a specific value from a given list of values using binary search method.
- Write a python program to take the temperature in Celsius and convert it to Fahrenhelt.
- Write a program to perform addition, subtraction, multiplication, integer division, modulo division, floor division on two values.
- Write a Python program using function to check given number is odd or even.
- Write a program that accept a word from the user and reverse it.
- 14. Find in detail the building blocks of a program in Python.
- Identify the features of Python and explain the input and output functions used in python.
- Identify different types of variables, keywords, operators, operands, and operator precedence with examples.
- Apply different looping techniques of Python with suitable examples
- Find the output of the following and justify your answer

i) not"False" ii)-17%10 iii)(212-32)\*5/9 iv) 3.5//1.3

- Utilize the concept of Catching exceptions using try and except and Construct examples
- 20. Trace the function call and explain the memory model of the following code;

def f(x):

X=2\*X

return X

X=1

X=f(X+1)



## KS INSTITUTE OF TECHNOLOGY BANGALORE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING PYTHON APPLICATION PROGRAMMING QUESTION BANK MODULE-2

- Write a Python program that counts the number of occurrences of the character in the given string. Provide two implementations: recursive and iterative.
- "Strings in Python are immutable". Explain this statement with example. Write Pythonic code to find the factorial of any number entered through the keyboard.
- A number with more than one digit is input through the keyboard. Write Pythonic code to reverse the digits in the number and find the sum of all the digits in the reversed number.
- 4. Explain the following String methods in detail a) upper() and b) find().Write a Python Program to check whether a number is prime or not using while loop and print appropriate messages.
- "Strings in Python are immutable". Explain this statement with example. Write Pythonic code to find the factorial of any number entered through the keyboard.
- Write a python program to search a specific value from a given list of values using binary search method.
- What is list in Python? Demonstrate use of any three methods of list.
- 8. What is the use of islower() and isupper() method?
- Describe the following:
- i) Initialising string variable
- ii) Accessing string variable
- iii) Slicing strings
- iv) String concatenation
- v) String replication
- Discuss with suitable examples
- i) Opening a file
- ii) Writing a file
- iii) Closing a file



# KS INSTITUTE OF TECHNOLOGY BANGALORE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING PYTHON APPLICATION PROGRAMMING CHALLENGING QUESTIONS MODULE-2

- Describe about the file operations in Python.
- What is Python list? Explain the basic list operations with suitable examples.
- Write a Python program to read the file and count and print the lines that start with the word "From". Prompt the user for the file name. Also use try/except to handle bad file names. Explain format operator with examples in Python.
- 4. Write Pythonic code to Count and Print the occurrence of each of the word in the file using dictionaries. Prompt the user for the file name. Also use try/except to handle bad file names.

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### KS INSTITUTE OF TECHNOLOGY BANGALORE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING PYTHON APPLICATION PROGRAMMING

#### QUESTION BANK MODULE-3

- What are the different operations that can be performed on a list? Explain with examples.
- Write in brief about List in python.
- Write in brief about Tuple in python. Write operations with suitable examples.
- Write in brief about Dictionary in python. Write operations with suitable examples or Write an python
  program to illustrate the operation on directory.
- Write in brief about Sequence in python. Write operations with suitable examples.
- 6. Compare List and Tuple,
- Give any four differences between a list and a string in Python.
- Write a Python program to read a string with punctuations and print the same string without punctuations.
- What is a list of lists? Give an example along with its memory model.
- 10. Write Pythonic code that implements and returns the functionality of histogram using dictionaries. Also, write the function print\_hist to print the keys and their values in alphabetical order from the values returned by the histogram function.
- Explain join(), split() and append() methods in a List with examples. Write Pythonic code to input information about 20 students as given below:
- 1) Roll number
- Name
- Total Marks

Get the input from the user for a student name. The program should display the Roll number and total marks for the given student's name. Also, find the average marks of all the students. Use dictionaries

- How are dictionaries and tuples used together? Demonstrate the use of Tuple assignment with dictionaries
  to traverse the keys and values of dictionary.
- 13. Write Pythonic code to create a function called most\_frequent that takes a string and prints the letters in decreasing order of frequency. Use dictionaries.
- Why do you need regular expressions in Python? Consider a file "ksit,txt". Write a Python program to read
  the file and look for lines of the form

X-DSPAM1-Confidence: 0.8475

X-DSPAMZ-Probability, 0.458

Extract the number from each of the lines using a regular expression. Compute the average of the numbers and print out the average. Also use try/except to handle bad file.

- 15. Consider the string "brontosaurus". Write Pythonic code that implements and returns the functionality of histogram using dictionaries for the given string. Also, write the function print\_hist to print the keys and their values in alphabetical order from the values returned by the histogram function.
- 16. Explain join (), split() and append() methods in a List with examples. Write a program which repeatedly reads numbers until the user enters 'done'. Once 'done' is entered, print out the total, count, and average of the numbers. If the user enters anything other than a number, detect their mistake using try and except and print an error message and skip to the next number.
- Define tuple. Explain DSU pattern. Write Pythonic code to demonstrate tuples by sorting a list of words from longest to shortest using loops.



# KS INSTITUTE OF TECHNOLOGY BANGALORE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING PYTHON APPLICATION PROGRAMMING CHALLENGING QUESTIONS MODULE-3

- Explain about methods in Lists of Python with appropriate examples.
- Write a python program to describe different ways of deleting an element from the given List.
- Write a Python Program to read a word and prints the number of letters, vowels and percentage of vowels in the word using dictionary.
- 4. Write a python program to compute Selection Sort using list.
- Write a python program to compute Merge Sort.
- Variable kingdoms refers to the list ['Bacteria', 'Protozoa', Chromista', Plantae', 'Fungi', 'Animalia']. Itsing kingdoms and either slicing or indexing with positive indices, write expressions that produce the following:
  - a. The first item of kingdoms
  - b. The last item of kingdoms
  - r. The list ['Bacteria', 'Protozoa', Chromista'']
  - d. The list (Chromista', Plantae', 'Fungi']
  - e. The list ('Fungi', 'Animalia')
  - f. The empty list
- Consider the list qty= [5, 4, 7, 3, 6, 2, I] and write the Python code to perform the following operation without
  using built-in methods:
  - a. Insert an element 9 at the beginning of the list
  - h. Insert an element 8 at the end of the list i.
  - c. Insert an element 8 at the index position 3 of the list
  - d. Delete an element at the beginning of the list
  - e. Delete an element at the end of the list
  - f. Delete an element at the index position 3
  - g. Print the list in reverse order (end to start)
  - h. Delete all the elements of the list.

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- 8. Why do you need regular expressions in Python? Consider a line "From stephen.marquard@uct.ac.za Sat Jan 5.09-14-16.2008" in the file email.txt. Write Pythonic code to read the file and extract email address from the lines starting from the word "From". Use regular expressions to match email address.
- 9. Write an \_\_init\_\_ method for the Point class that takes x and y as optional parameters and assigns them to the corresponding attributes. Write an add method for Points that works with either a Point object or a tuple. If the second operand is a Point, the method should return a new Point whose x coordinate is the sum of the x coordinates of the operands, and likewise for the y coordinates. If the second operand is a tuple, the method should add the first element of the tuple to the x coordinate and the second element to the y coordinate and return a new Point with the result.
- 10. Consider a user defined class called Point. Write a function called distance that takes two Points as arguments and returns the distance between them.



## KS INSTITUTE OF TECHNOLOGY BANGALORE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING PYTHON APPLICATION PROGRAMMING QUESTION BANK

MODULE-4

- Make use of examples to explain classes, objects, and attributes in python language.
- Make use of python code, to explain how functions return instance values.
- identify the differences between shallow equality and deep equality with respect to classes and objects, with the help of python codes.
- 4. Make use of example program to define a class and its uses in Python? Explain how to instantiate a class and how the class members are accessed?
- Explain pure functions and modifiers with examples
- 6. Explain initialization method with example
- 7. What is operator overloading ? write python code to overload "+""-"and "\*" operator by providing the methods add , sub and \_mul\_\_.
- 8. Illustrate the concept of pure functions and modifiers with python code
- What is the difference between method and function? Explain the working of init method with suitable code
- What is type based dispatch? Illustrate with python example.
- What are the polymorphic functions? Explain with a snippet code.
- 12. Differentiate between simple, multiple, and multi-level inheritance?
- Differentiate class variables and instance variables.
- What does the keyword self in python mean? Explain with an example.
- Show using a python code how\_int\_method is invaked when an object is initiated, explain its working
- Explain str method with a python program.



# KS INSTITUTE OF TECHNOLOGY BANGALORE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING PYTHON APPLICATION PROGRAMMING CHALLENGING QUESTIONS MODULE-4

- Write a class rectangle that has attributes length and breadth and a method area which returns the
  area of the rectangle.
- 2. Write a program that has a class Point with attributes as X and Y co-ordinates, Create two objects of this class and find the midpoint of both the points. Add a method reflex\_x to classpoint, which returns a new point. Which is the reflection of the point about the x-axis.
- 3. Ex: point (5, 10) = reflex\_x returns point (5,-10).
- 4. Write a program that has a class Person, Inherit a class Student from Person which also has a class MarksAttendance. Assume the attributes for Person class as: USN. Name. dob. gender. Attributes for Student class as: Class, branch, year, MA. Attributes for Marks Attendance: Marks, Attandance. Create a student S= Student ("1AB16CSOO5", "XYZ","18-1-90", "M", 85, 98) and display the details of the student.
- 5. Create student class and initialize it with name and roll number. Design methods to:
- a. Display\_to display all information of the student.
- b.setAge\_to assign age to student.
- c. setMarks\_to assign marks to the student.
- Write a program that uses class to store the name and marks of students. Use list to store the marks in three subjects
- 7. Write a Python program that uses datetime module within a class, takes a birthday as input and prints the age and the number of days, hours, minutes and seconds until the next birthday.
- 8. Using datetime module write a program that gets the current time and prints the day of the week.
- Define polymorphism. Demonstrate polymorphism with function to find histogram to count the members of times each letters appears in a word and in sentence.
- Write a python program to find duration of event if start and end time is given by defining class.
   TIME.
- 11. Write a python program to express instances as return values to define a class RECTANGLE with members width ,height, corner\_x, corner\_y and member function: to find centre ,area and perimeter of a rectangle.

# KS INSTITUTE OF TECHNOLOGY BANGALORE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING PYTHON APPLICATION PROGRAMMING QUESTION BANK

MODULE-4

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- Differentiate class variables and instance variables.
- What does the keyword self in python mean? Explain with an example.
- 15. Show using a python code how\_int\_method is invoked when an object is initiated, explain its working.
- Explain\_str\_method with a python program.

# Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and/or equations written eg. 42+8 = 50, will be treated as malpractice.

# Sixth Semester B.E. Degree Examination, Jan./Feb. 2023 Python Application Programming

Time: 3 hrs. Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

### Module-1

- a. Identify three types of errors encountered in Python and also explain the basic building blocks of Python program. (07 Marks)
  - b. Predict the output and justify your answer (i) -13%9 (ii) 6.6//16 (iii) 1+2\*\*3/4\*5 (iv) not "False" (v) 5\*1\*\*3 (05 Marks)
  - Develop python programs to, (i) Find largest of three numbers (ii) Check whether the given year is leap year or not with functions.

    (08 Marks)

### OF

- Make use of necessary examples and flow chart to explain the concept of alternate execution, chained conditional and nested conditional statements. (08 Marks)
  - b. Develop a user defined function named 'Solve' that returns the sum and difference of two numbers accepted from the user. Print the sum and difference separately on the console.
  - Make use of necessary code examples to explain the following (i) Short circuit evaluation
    of an expression (ii) Fruitful functions and void functions. (07 Marks)

### Module-2

- a. Build a python program to compute counting summing and average of elements using loops.
   (06 Marks)
  - Make use of necessary examples to explain any six methods associated with strings.

(06 Marks)

c. Mention the advantages of break and continue statement. Write a program to compute the sum of only odd numbers within the given natural number using continue statement.

(08 Marks)

### OR

- Make use of necessary syntax to explain fileopen, fileclose, fileread and filewrite concepts in python.

  (08 Marks)
  - Develop a python program to accept a file name from the user: (i) Display the first N lines
    of the file, (ii) Find the frequency of occurrence of the word accepted by the user. (08 Marks)
  - e. Use find and string slicing to extract the portion of the string after the colon character and then use the float function to convert the extracted string into a floating point number. Assume the following string:

str = X-DSPAM-Confidence: 99.94

(04 Marks)

### Module-3

- Describe any two list operations and list methods. Develop a python program to accept n
  numbers from user, find sum of all even numbers and product of all odd numbers in entered
  list. (08 Marks)
  - Identify pop and remove methods on lists. How to delete more than one element from a list.
     (06 Marks)
  - c. Identify the difference between list and tuples and also demonstrate (i) How a dictionary item can be represented as a list of tuples, (ii) How tubles can be used as keys in dictionaries. (06 Marks)

### OR

- 6 a Develop a program to check the validity of a password read by the users. The following criteria should be used to check the validity. Password should have at least –
  - One lower case letter.
  - One digit.
  - One upper case letter.
  - One special character from (\$#!@)

Six characters

(08 Marks)

b. Build a python program that accepts a sentence and builds a dictionary with LETTERS, DIGITS, UPPERCASE, LOWERCASE as key values and their count in the sentence as values and their count in the sentence as values.

Ex : Sentence = "VTU@123.e-Learning"

d = {"LETTERS": 12, "DIGITS": 3, "UPPERCASE": 4, "LOWERCASE": 8} (06 Marks)

 Develop a python program to count occurrence frequency of words in a file using dictionary. (06 Marks)

### Module-4

- 7 a. Create a student class and initialize it with name and roll number. Develop method to,
  - SetAge to assign age to student

(ii) SetMarks – to assign marks to student

iii) Display - to display all information of the student (08 Marks)

 Differentiate between pure function and modifier. Develop a python program to find duration of an event if start and end time is given by defining class TIME. (08 Marks)

Demonstrate the concept of operator overloading with a code snippet.

(04 Marks)

### OR

 Make use of necessary examples to explain single, multiple, multiple, multilevel and hierarchial inheritance. (08 Marks)

b. Develop a python program to express instances as return values to define a class RECTANGLE with members width, height, corner\_X, corner\_Y and member functions: to find center, area and perimeter of a rectangle. (08 Marks)

Explain init method with an example.

(04 Marks)

### Module-5

- a. Explain any two socket functions. Explain support for parsing HTML using regular expression with an example program.

  (08 Marks)
  - b. Make use of an example to explain the significance of XML over the web development.

(08 Marks)

Compare and contrast the JavaScript object Notation (JSON) and XML.

(04 Marks)

### OR

- a. Describe creation of database table using database cursor architecture. (08 Marks)
  - b Create a simple spidering program that will go through Twitter accounts and build a database of them. (68 Marks)
  - e. What is service oriented architecture? List the advantages of the same.

(04 Marks)

# Sixth Semester B.E. Degree Examination, Aug./Sept. 2020 Python Application Programming

Time: 3 hrs. Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

### Module-1

1 a. Explain types of error with examples. (64 Marks)

b. Explain various Names, Keywords and expressions with examples. (06 Marks)

e. Write a python program using try and except, so that your program handles non-numeric input gracefully by printing a message and exiting the program the following shown two execution of the program

Enter Hours : 20 Enter Rate : nine

Error, please enter numeric input

Enter hours : forty

Error, please enter numeric input.

(06 Marks)

### OR

- Explain conditional execution, Alternative execution chained conditionals and nested conditionals with examples. (98 Marks)
  - b. Explain break and continue statement with examples in python. (04 Marks)
  - c. Explain with an example what are fruitful functions and void functions. (04 Marks)

### Module-2

- 3 a. Explain while and for loops with examples. (04 Marks)
  - b. Write a python program to find the largest value from the given set of accepted values.

c. Discuss the string handling methods in python with examples. (06 Marks)

### OR

- 4 a. Write a python program to check whither a given string is palindrome or not.

  b. Explain with example the syntax of read ( ), write ( ) methods for a file. (04 Marks)
  - c. Develop a python program for creating a copy an existing file. (06 Marks)

### Module-3

- 5 a. Explain the difference between a list and a dictionary. (04 Marks)
  - b. Make a list of first ten letters of the alphabet then using the slice operation do the following:
    - i) Print the first three letters from the list
    - ii) Print any three letters from the middle
    - iii) Print the letters from 5th letters to the end of the list. (04 Marks)
  - Discuss the lists handling functions in python with example. (08 Marks)

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### OR

6 a. Differentiate between list and dictionary. (08 Marks) b. Define tuple, explain DSU pattern. Write a python code to determinate tuples by sorting a list of words from longest to shortest using loops. (04 Marks) Explain the need of Regular expressions in python language. (04 Marks) Modulc-4 7 a. Explain classes and attributes in python language with examples. (05 Marks) Explain pure functions and modifiers with examples. (05 Marks) c. Write a program that uses class to store the name and marks of students. Use list to store the marks in three subjects. (06 Marks) Explain initialization method with example. b. Write a class Rectangle that has attributes length and breadth and a method area which returns the area of the rectangle. What is operator overloading? Write phython code to overload " + " " - " and " \* "operator by providing the methods \_\_ add\_\_, \_ sub\_ and \_ mul \_\_. (06 Marks) Module-5 a. Write a python code for retrieving the romeo.txt file from the web and compute the frequency of each word in the file. (06 Marks) b. Write a note on XML. (05 Marks) c. Explain with a neat diagram of Service Oriented Architecture, (05 Marks) OR 10 a. Describe creation of database table using database cursor architecture. (08 Marks) b. Write a python code for creating employee database, inserting records and selecting the employees working in the company (08 Marks)

# CERCS SICHEME

USN

15CS664

Sixth Semester B.E. Degree Examination, Dec.2019/Jan.2020 Python Application Programming

Time: 3 brs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from much module,

### Module-1

- I a. Explain the sabent features of python. 195 Starks)
  - b. Write a python program to calculate the area of square, rectangle and crede. Plin the results. Take input from user. 105 Marks)
  - What are user defined functions? How can we pass purameters in user defined functions?
     Explain with suitable example.

### OR

- 2 a Explain the concept of conditional execution alternate execution and chained conditions with suitable examples. (86 Marks)
  - Write a python program to create a user defected function to find maximum and minimum letter in string. Also find the length the strang without using inbuilt limition. (88 Marks)
     Explain the concept of type conversion functions and math functions in python with
  - Explain the concept of type conversion functions and math functions in python with examples.

### Module 2

- 3 a. Explain the working of while keep to pythan with suitable example. (05 Marks)
  - Wenc a python program to demonstrate country, summing and average of elements using loops. (05 Marks)
  - What is a string? Write a python program to demonstrate traversal through a string with a
    loop. Also explain the concept of string streng.

### OR

- a. With syntax and example ends explain the working of definite loop in python. 186 Market
  - Write a python program to efficience and compare two strings. Read the strings from user.
     (65 Marks)
  - E. Explain fileopen, fileology, fileread and filewrite concepts in python with example of Marks)

### Madule-3

- 5 a. What is a last hope the concept of list alicing and list traversing with example. (65 Marks)
  - Benillain the course of of comparing tuples. Describe the working of sort function with python code.
     (66 Marks)
  - c. Write a postern program to search for lines that start with "F" followed by 2 characters, followed by "in." (65 Marks)

### 0

- 6 a White a dictionary? How is it different from list? Write a python program in count occurrence of characters or a strong and point the count.
  (66 Marks)
  - With an example program, illustrate how to pass function arguments to list. (65 Marks)
  - write a python program to search lines that start with 'X' followed by any non whitespace characters, followed by '.' ending with number. Display the sum of all these number.

(95 Marks)

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### Module-4

- 7 a. Define class and object? What are programmer defined types? Explain with example
  - 05 Marks) (Marks) Illustrate the concept of pure function with python code.
  - What is the difference between method and function? Explain the working of init method 604 Marks with suitable code.

- n instance Define attribute" With the help of python code, explain how funding (th Marks)
  - Explain the concept of modifier with python code.
     What is type based dispatch? Illustrate with python example. 195 Marks) (05 Marks)

### Module-5

- a. Define siscket? Writ a python program that makes a confection to a webserver and follows the rules of HTTP protocol to request a plain test document and display what server sends back.

  - b. What is XML? How is it used is python? Explain parsing of XML with example. (05 Marks)
     c. Define cursor? Explain consect, execute and close command of databases with suitable.

- Write a python code to read the file from web using wells and retrieve the data of the file.
   Also compute the frequency of cody word in the file.
  - What is JSON? Illustrate the concept of patring JSON python code.
     Explain the concept of using JONNat Personal training python.
- (05 Mirrks)

(86 Marks)

# VEAR J SEMICSTOR W/VI COURSE TITLE Python Application F COURSE CODE 1860446 ACADEMIC VEAR 3022-33 BATCH 2719-23

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# K.S.Institute of Technology,Bangalore -109 Department of Electronics and Communication Engg 6th sem Course End Survey 2022-23

Course: Python Application Programming ( Professional Elective-1) Course Code:18EC646

- Q1. How well you are able to understand Python programming syntax and semantics ?
- Q2. To what level are you familiar with use of flow control, functions, strings and file systems in python.
- Q3 To what extent are you familiar with the concepts of object oriented programming as used in Python.
- Q4.How well you can utilize the concepts related to network programming, web services and database in python application?
- Q5.How well you are able to make use of knowledge gained from python programming for different applications ?

Date	USN	Name of the Student	Faculty Name	Q1	Q2	Q3	Q4	Q5
06-07-2023	1KS20EC080	Ramya T	Dr. Surekha Borra	2	2	2	2	2
06-07-2023	1KS20EC091	Sanjana t gadikar	Dr. Surekha Borra	3	3	3	3	2
06-07-2023	1KS20EC117	Yashilaa S	Dr. Surekha Borra	3	3	3	3	3
06-07-2023	1KS20EC099	Shwets Deepak K	Dr. Surekha Borra	3	3	3	3	3
08-07-2023	1KS20EC084	Sachin NM	Dr. Surekha Borra	3	3	3	3	3
06-07-2023	1KS20EC062	Neha Nagraj Airani	Dr. Surekha Borra	3	3	3	3	3
08-07-2023	1KS20EC113	Vijayalakshmi K	Dr. Surekha Borra	3	2	3	2	3
06-07-2023	1KS20EC023	DHAMINI. J	Dr. Surekha Borra	3 .	3	3	3	3
06-07-2023	1ks20ec115	Vinay sagar	Dr. Surekha Borra	3	3	3	3	3
06-07-2023	1KS20EC111	Vaishnavi vh	Dr. Surekha Borra	3	3	3	3	3
06-07-2023	1KS20EC008	B.S.Hemashree	Dr. Surekha Borra	3	3	3	3	3
06-07-2023	1KS20EC031	Gomitha R C	Dr. Surekha Borra	3	3	3	3	3
06-07-2023	1KS20EC036	HARSHITHA N	Dr. Surekha Borra	3	3	3	3	3
06-07-2023	1KS20EC105	Tarun Prasanna	Dr. Surekha Borra	2	3	2	3	2
06-07-2023	1ks20ec107	T.Girishchowdary	Dr. Surekha Borra	3	3	3	3	3
06-07-2023	1KS20EC060	Nallani gowthami	Dr. Surekha Borra	3	3	3	3	3
06-07-2023	Chaitanya k	Chaitanya k	Dr. Surekha Borra	2	2	2	2	2
06-07-2023	1KS20EC032	Harini k	Dr. Surekha Borra	3	3	3	3	3
06-07-2023	1KS20EC106	tejas n reddy	Dr. Surekha Borra	3	3	3	3.	3
06-07-2023	1ks20ec094	Shashank S	Dr. Surekha Borra	3	3	3	3	3
06-07-2023	1KS20EC034	Harshitha.B.L.	Dr. Surekha Borra	3	3	3	3	3
06-07-2023	1KS20EC051	KUMAR KG	Dr. Surekha Borra	3	3	3	3	3
06-07-2023	1KS20EC072	Pushpa DT	Dr. Surekha Borra	3	3	3	3	3
06-07-2023	1KS20EC035	Harshitha J	Dr. Surekha Borra	3	3	3	3	-3
06-07-2023	1ks20ec074	Rahul R	Dr. Surekha Borra	2	2	2	2	2
06-07-2023	1KS20EC103	SUMUKHA.S	Dr. Surekha Borra	3	3	3	3	3
06-07-2023	1KS20EC019	Chethan Kumar T	Dr. Surekha Borra	3	3	3	3	3
06-07-2023	1KS20EC043	Amshumanth	Dr. Surekha Borra	3	3	3	3	3
07-07-2023	1KS20EC048	Kiran Dev D	Dr. Surekha Borra	3	3	3	3	1
07-07-2023	1KS20EC068	Prema G	Dr. Surekha Borra	2	2	2	2	2
07-07-2023	1KS20EC093	Sharath M	Dr. Surekha Borra	3	3	3	3	3
07-07-2023	1KS20EC055	Mahesh Biradar	Dr. Surekha Borra	3	3	3	3	3
07-07-2023	1KS20EC033	Harshith Gowda AR	Dr. Surekha Borra	3	3	3	3	3
07-07-2023	1KS20EC028	Gagan HC	Dr. Surekha Borra	3	3	3	3	3
07-07-2023	1KS20EC041	Jayanth H	Dr. Surekha Borra	3	3	3	3	3
07-07-2023	1KS20EC087	Sandeep YH	Dr. Surekha Borra	3	3	3	3	3

07-07-2023	1KS20EC095	Shivareddy	Dr. Surekha Borra	1	1	1	1	1
Company of the Compan	1KS20EC108	Uday C H	Dr. Surekha Borra	3	3	3.	2	3
THE RESERVE OF THE PARTY OF THE	1KS20EC066	Pradhyumna S Kashyap	Dr. Surekha Borra	2	2	2	2	2
A STATE OF THE PARTY OF THE PAR	1KS20EC039 .	Jamuna s g	Dr. Surekha Borra	3	3	3	3	3
And the second state of the Park State of	1KS20EC058	Manaswini km	Dr. Surekha Borra	3	3	3	2	3
NAME OF TAXABLE PARTY.	1KS20EC010	Bhavitha	Dr. Surekha Borra	3	3	3	3	3
CORNEL DE ADDRESSES AND ADDRES	1KS20EC013	CHAITHRA K	Dr. Surekha Borra	3	3	3	3	3
the same and the s	1KS20EC085	Sadhana Srinivas	Dr. Surekha Borra	3	3	3	3	3
CONTRACTOR OF THE PARTY OF THE	1KS20EC015	C.Umadevi	Dr. Surekha Borra	3	3	3	3	3
THE RESIDENCE OF THE PARTY OF T	1KS20EC052	Kusuma VR	Dr. Surekha Borra	3	3	3	3	3
07-07-2023		Aditi dubey	Dr. Surekha Borra	3	3	3	3	3
Control of the Contro	1ks19ec034	Hima swetha	Dr. Surekha Borra	3	3	3	3	3
manufactured by all the property between the con-	1KS20EC024	Dhruva Kumar S	Dr. Surekha Borra	2	2	2	2	2
	1ks20ec067	Prayeen D B	Dr. Surekha Borra	2	2	2	2	2
Charles in the contract of the	1KS20EC003	Afeefa Sharieff	Dr. Surekha Borra	2	2	2	2	2
THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IN COLUMN	1KS20EC049	Kiran V Narayan	Dr. Surekha Borra	3	3	3	3	3
AND RESIDENCE PROPERTY.	1KS20EC097	Shreyas M S	Dr. Surekha Borra	3	3	3	3	3
The second second	1KS20EC018	Chethan Kumar J	Dr. Surekha Borra	3	3	3	3	3
and the second second	1KS20EC027	G BHAVANA PRIYADARSHINI	Dr. Surekha Borra	3	3	3	1	- 2
The second second second	1KS20EC070	Priyanka K	Dr. Surekha Borra	3	3	3	3	2
	1KS20EC029	Gagana B S	Dr. Surekha Borra	3	3	3	3	3
water to be a substitute of the state of the	1KS20EC050	K Prathima	Dr. Surekha Borra	3	3	3	3	3
NAME AND ADDRESS OF TAXABLE PARTY.	1KS20EC065	Pavani T S	Dr. Surekha Borra	2	3	3	2	2
	1KS20EC061	Neha cr	Dr. Surekha Borra	3	3	3	3	3
	1ks20es071	Priyanka.M	Dr. Surekha Borra	3	3	3	3	3
HOME BROKEN BOOK OF THE PARTY O	1KS20EC037	INCHARA P	Dr. Surekha Borra	3	3	3	3	3
Service Services and Advanced Annual Confession of the Confession	1KS20EG034	Challagundla Sai Srujitha	Dr. Surekha Borra	2	2	2	2	2
	1KS20EC045	Kavana G S	Dr. Surekha Borra	2	2	2	3	2
A CONTRACTOR OF THE PARTY OF TH	1KS20EC089	Sanjana G	Dr. Surekha Borra	3	3	3	3	3
A commission of the latest	1KS20EC025	Divya N	Dr. Surekha Borra	2	2	2	2	2
ACRES DE LA COMPANIE	1KS20EG083	S Arun Kumar	Dr. Surekha Borra	3	3	3	3	- 3
water to be a property of the party of the	1KS20EC047	Keerthana B S	Dr. Surekha Borra	3	3	3	3	3
and placed their complete for the second transfer from	1KS20EC047	Rahul Krishnan V	Dr. Surekha Borra	3	3	3	2	2
	1ks20ec063	Vasanth Kumar	Dr. Surekha Borra	3	3	3	3	3
The second secon	1KS20EC112	Varsha N	Dr. Surekha Borra	3	3	2	3	3
Compare the Same Parlament Address and	1KS20EC021	Darshan kumar	Dr. Surekha Borra	3	3	2	3	2
	1KS20EC079	Rameshwar	Dr. Surekha Borra	3	3	3	3	3
Times and the second second	1ks20ec092	Shakthi Anbazhagan M	Dr. Surekha Borra	3	3	3	3	2
NAME OF TAXABLE PARTY AND ADDRESS OF	1KS20EC075	RAJATH K ACHAR	Dr. Surekha Borra	3	3	3	3	3
A risk driphtnesses where		Vineeth M S	Dr. Surekha Borra	3	3	3	3	1
	1KS20EC116 1KS20EC030	Gandhamani	Dr. Surekha Borra	3	3	3	3	1.5
	1KS20EC030	Ujjwal Naidu	Dr. Surekha Borra	3	3	3	- 3	1 3
	1KS20EC108	RAKSHITHA A	Dr. Surekha Borra	3	3	3	3	1 2
THE R. P. LEWIS CO., LANSING, MICH.	11,000,000,000		Dr. Surekha Borra	3	3	3	3	1
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		Eshwar Biradar	Dr. Surekha Borra	3	3	3	3	1
COLUMN TO SERVICE SERV	1KS20EC026		Dr. Surekha Borra	3	3	3	3	1
The statement of the st	1KS20EC102	SUMANA N	Dr. Surekha Borra	3	3	3	3	1
	1KS20EC104	Suraksha N	Dr. Surekha Borra	3	3	3	3	1
09-07-2023	1, KS20EC059	N shreya	por, ourekna borra	- 3	0	- 3	10.	-

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and the continued at the law of the law of	1KS20FC001	Abhishek J	Dr. Surekha Borra	3	3	3	3	3
	1KS20EC017	Chethan G	Dr. Surekha Borra	3	3	3	3	3
	1KS20EC101	Sonika R	Dr. Surekha Borra	2	2	2	2	2
NAME OF TAXABLE PARTY.	1ks20ec038	JAMPULA CHAITHANYA KRISHNA		3	2	3	2	3
	1ks20ec064	Payan c	Dr. Surekha Borra	3	3	3	3	3
	1KS20EC009	Bharath M	Dr. Surckhe Borra	3	2	2	2	2
	1KS20EC096	Shreva h	Dr. Surekha Borra	3	3	3	3	3
WARRY SALES OF THE PARTY OF THE	1KS20EC077	RAKSHITH R	Dr. Surekha Borra	1	2	2	2	1
	1KS20EC110	Vaishnavi A	Dr. Surekha Borra	3	2	3	3	3
	1KS20EC118	YASHWANTH Y	Dr. Surekha Borra	3	3	3	3	3
	1KS20EC114	VINAY S.P	Dr. Surekha Borra	3	3	3	3	3
the state of the state of the state of	1K\$20EC011	Bhuvaneshwari k	Dr. Surekha Borra	2	2	2	2	2
	1KS20EC020	Darshan.K	Dr. Surekha Borra	3	3	2	2	2
AND DESCRIPTION OF THE PERSON NAMED IN	1KS20EC042	K Jeevitha	Dr. Surekha Borra	2	2	3	3	3
And a Company of the Party of t	1KS20EC054	Madiha	Dr. Surekha Borra	2	2	2	2	2
	1KS20EC057	Meghashree.M	Dr. Surekha Borra	3	3	3	3	3
COURT CONTRA	1kz20ec004	Ajay B.G	Dr. Surekha Borra	3	3	3	3	3
The second secon	1KS20EC046 1KS20EC053	KAVYA S M M.Archana	Dr. Surekha Borra Dr. Surekha Borra	3	3	3	3	3

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# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

("ವಿ ಟಿ ಯು ಅಧಿನಿಯಮ ೧೯೯೪" ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ)



### VISVESVARAYA TECHNOLOGICAL UNIVERSITY

(State University of Government of Karnataka Established as per the VTU Act, 1994) "JnanaSangama" Belagavi-590018, Karnataka, India

Prof. Dr. B. E. Rangaswamy, Ph.D.

Fax: (0831) 2405467

REF: VTU/BGM/ACA/2022-23/ 6241

Phone: (0831) 2498100 REGISTRAR

DATE: 2 1 JAN 2023

### Revised-NOTIFICATION

**Subject**: - Revised-Academic Calendar of 3<sup>rd</sup> semester of B.E./B.Tech., programs of University regarding...

Reference: Dean Faculty of Engineering, VTU Belagavi approval dated 20.01.2023

Hon'ble Vice-Chancellor's approval dated: 20.01.2023

The **revised-academic calendar** concerned to 3<sup>rd</sup> semester of B.E./B.Tech., programs of the University for the academic year 2022-23 are hereby notified as mentioned below;

Revised Academic Calendar for 3rd-semester B.E./B.Tech. Programs								
Details	Existing Dates	Revised Dates						
Commencement of III semester	31.10.2022	31.10.2022						
Commencement of Classes for Lateral Entry students		06.02.2023						
Last working date	11.02.2023	01.04.2023 04.04.2023 To 13.04.2023						
Practical Examinations Regular Students	13.02.2023 To 21.02.2023							
Theory Examinations	22.02.2023 To 22.03.2023	17.04.2023 To 05.05.2023						
Practical Examination for Lateral Entry students		08.05.2023 To 13.05.2023						
Intra/Inter Institute Internship	26.03.2023 To 16.04.2023							
Commencement of IV semester	17.04.2023	15.05.2023						

### Please Note:

- The Institute needs to function for six days a week with Saturday being a full working day. Timing
  for the classes is either 08.00 am to 04.15 pm or 09.00 am to 05.00 pm in total 08 hours a day. #if
  required, the college can also plan to have extra classes on Sundays to complete academic activities
  within the duration mentioned.
- Separate classes should be conducted for lateral entry students as per the revised academic
  calendar; however, the regular students may attend the classes along with lateral entry students
  for review.
- Notification regarding the Calendar of Events relating to the conduct of University Examinations
  will be issued by the Registrar (Evaluation) from time to time.
- Academic Calendar may be modified based on guidelines/directions issued in the future by MHRD/UGC/AICTE/State Government.
- Academic Calendar is also applicable for Autonomous Colleges. If any changes are to be affected
  by Autonomous Colleges in the academic terms and examination schedule, they could do so with
  the approval of the University.
- The college has to conduct offline classes to cover 80% of the syllabus of the courses; however,
   20% of the syllabus can be covered in virtual model (Online) mode. Attendance of the students for offline and online classes is mandatory and records should be maintained and submitted to the university whenever informed.
- AICTE Activity point details circular will be issued by the Registrar's office separately.
- If any clarification/correction, please email-registrar@vtu.ac.in or sbhvtuso@yahoo.com
- Intra/Inter Institute Internship for lateral entry students shall be conducted parallelly with academic activities of even the semester.

The Principals of Affiliated, Constituent and Autonomous Engineering Colleges, Chairpersons of the University departments are hereby informed to bring the revised-academic calendar to the notice of all concerned.

Sd/-

REGISTRAR

### To,

- 1. The Principals of all affiliated/ constituent /Autonomous Engineering Colleges under the ambit of VTU Belagavi.
- 2. The chairperson, of the Department of Mechanical Engineering /Civil Engineering /Computer Science and Engineering& Communication Electronics Engineering of the University.

### Copy to.

- 1. To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
- 2. The Registrar (Evaluation), VTU Belagavi for information.
- The Regional Directors (I/c) of all the regional offices of VTU for circulation.
- 4. The Director I/c. ITI SMU, VTU Belagavi for information and to make arrangements to upload Academic Calendar on the VTU web portal.
- 5. The Director of Physical Education, VTU Belagavi for information
- 6. OS for information and make arrangements to send the circular regarding AICTE Activity Points
- 7. All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi

REGISTRAR 2/2





# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ



("ವಿ ಟಿ ಯು ಅಧಿನಿಯಮ ೧೯೯೪" ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ವಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ)

### VISVESVARAYA TECHNOLOGICAL UNIVERSITY

(State University of Government of Karnataka Established as per the VTU Act, 1994) "JnanaSangama" Belagavi-590018, Karnataka, India

Phone: (0831) 2498100
REGISTRAR Fax : (0831) 2405467

REF: VTU/BGM/ACA/2022-23/ 3000

DATE:

3 SEP

SEP 704

### NOTIFICATION

Subject: - Academic Calendar of ODD semesters B.E./B.Tech./B.Plan./B.Arch.

programs of University regarding...

Reference: Hon'ble Vice-Chancellor's approval dated: 03.09.2022

The academic calendar concerned to **ODD semesters of B.E./B.Tech./B.Plan./B.Arch.** programs of University for academic year 2022-23 are hereby notified as mentioned in the attached sheet;

The Principals of Affiliated, Constituent and Autonomous Engineering Colleges are hereby informed to bring the academic calendar to the notice of all concerned.

Encl: As mentioned

Sd/-

REGISTRAR

### To,

- The Principals of all affiliated/ constituent /Autonomous Engineering Colleges under the ambit of VTU Belagavi.
- 2. The chairperson, Department of Mechanical Engineering / Civil Engineering / Computer Science and Engineering and Business Studies of the University.

### Copy to.

- 1. To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
- The Registrar (Evaluation), VTU Belagavi for information.
- The Regional Directors (1/c) of all the regional offices of VTU for circulation.
- The Director I/c. ITI SMU, VTU Belagavi for information and to make arrangements to upload revised Academic Calendar on the VTU web portal.
- 5. The Director of Physical Education, VTU Belagavi for information
- 6. PS to Registrar VTU Belagavi
- 7. All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi

Registrar

### Academic Calendar for ODD Semester of UG programs for the year 2022-23

	l semester B.E./B.Tech.	I semester B.Arch./B.Plan	l semester B.5c.	III semester B.E./ B.Tech.	III Semester 8.Arch.	Iti semester B. Plan	IH Semester B.Sc.	V Semester B.E./B.Tech.	V Semester B.Arch./ B.Plan.	VII semester B.E./B.Tech.	VII semester B.Plan.	VIII semester B.Arch	IX semester B.Arch
Commencement of ODD Semester	# 10.10. <b>2</b> 022	# 10.10.2022	10.10.2022 (Tentative)	11.10.2022	31.10.2022	31.10.2022	10.10.2022	10.10.2022	12.09.2022	21.08.2022	21.08.2022	19.09.2022	01.09.2022
Internship				11.10.2022 To 30.10.2022						То	21.08.2022 To 24.09.2022		
Commencement of Classes				31.10.2022	31.10.2022	31.10.2022	10.10.2022	10.10.2022	12.09.2022	19.09.2022	26.09.2022	19.09.2022	01.09.2022
Last Working day of ODD Semester				11.02.2023	11.02.2023	11.02.2023	28.01.2023	27.01.2023	31.12.2022	31.12.2022	07.01.2023	31.12.2022	20.12.2022
Practical Examination				To	To	To	Ťσ	To	To	To	09.01.2023 To 14.01.2023	To	21.12.2022 To 31.12.2022
Theory Examinations		also straint v		22.02.2023 To 22.03.2023	22.02.2023 To 22.03.2023	22.02.2023 To 22.03.2023	To	To	To	To	16.01.2023 To 15.02.2023	То	
internship	5		*	26.03.3035 fo 100.40.31					_		***		_
internship Viva Voce/ Project viva					Red Is	W 4			hada a				-
Commencement of EVEN Semester				17.04.2023	17.04.2023	17.04.2023	20.03.2023	20.03.2023	20.03.2023	20.02.2023	20.02.2023	20.02.2023	06.01.202

### Please Note

- ease mote:

  The academic sessions for ODD semesters should commence from the dates mentioned above. # Commencement of Induction Program As per AICTE Academic Calendar 2022-23.
- The commencement date of VII semester B.E./B.Tech/, is postponed from 12.09.2022 to 19.09.2022 to cover 04 weeks of Internship duration. The students of B.E./B.Tech, compulsorily have to complete the Internship in this duration only.
- The commencement date of VII semester B Plan., is postponed from 12.09.2022 to 26.09.2022 to cover 06 weeks of Internship duration.
- Students Joining to VII semester B.E./B.Tech/B.Plan should complete the Internship before the commencement of the classes.
- The Institute needs to function for six days a week with additional hours (Saturday is a full working day). #if required, the college can also plan to have extra classes on Sundays to complete academic activities within the duration mentioned.
- The faculty/staff shall be available to undertake any work assigned by the university.
- Notification regarding the Calendar of Events relating to the conduct of University Examinations will be issued by the Registrar (Evaluation) from time to time.
- Academic Calendar may be modified based on guidelines/directions issued in the future by MHRD/UGC/AICTE/State Government.
- Academic Calendar is also applicable for Autonomous Colleges, if any changes are to be effected by Autonomous Colleges in the academic terms and examination schedule, they could do so with the approval
  of the University.
- The college has to conduct offline classes to cover 80% of the syllabus of the courses; however, 20% of the syllabus can be covered in virtual model (Online) mode. Attendance of the students for offline and online classes is mandatory and records should be maintained and submitted to the university whenever informed.
- If any clarification/correction, please email to-sbhvtuso@gmail.com

Internship for Lateral Entry Students

Ray 03/09/2021
RELISTRAN
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# K.S INSTITUT E OF TECHNOLOGY, BENGALURU-560109 TENTATIVE CALENDAR OF EVENTS: III ODD SEMESTER (2022-2023) SESSION: OCT 2022 — FEB 2023

Week				De			FEB 2023		
No.	Month	Men	Tue	Wed	The	Fri	Sat	Days	Activities
1	OCT/NOV	31*	m	2	3	4 TA	5 DH	4	31* - Commencement of III Sem 1- Konnada Rajyotsava
1	NOV	7	8	9	10	1111	12	5	11- Kanakadasa Jayanti 12- Tuesday Time Table
3	NOV	.14	15	16	17	18	19 DH	5	
i	NOV	21	22	23	24	25	26 TA	6	26 - Wednesday Time Tuble
5	NOV/DEC	28 T1	29.71	30 T1	1	2	3 DH	5	1
6	DEC	5	6	7	* LT1	9 LT1	10 LT1	6	10- Tuesday Time Table
7	DEC	12* FFB1	15 BV	14 ASD	15	16	17 DH	5	12* - First Faculty Food Back
1	DEC	19	20	21	22	23	24	6	24 - Wednesday Time Table
9	DEC	26	27	28	29	30	SITA	6	31 - Monday Time Table
10	JAN	2.72	372	472	5	6	7 DH	5	
11.	JAN	9	10	11	12 BV	13 ASD	1411	5	14- Makura Saskrunthi
12	JAN	16* FFB2	17	18	19	20	21 DH	5	16* - First Faculty Food Back
13	JAN	23	24	25	26 H	27	28	3	26- Republic Day 28- Wednesday Time Tuble
14	JAN/FEB	30	31	1-TA	2.13	3.13	4 DH	5	
15	FEB	6 73	7	81.72	9 LT2	10 LT2	п•	6	11- Thursday Time Table 11* - Last Working day

Total Number of working days ( Excluding holidays and Tests)=64

	- Control Control						
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:BV	Blee Book Verification						
T1,12,13	Tests 1,2, 3						
ASD	Attendance & Soutonal Daylor Declared Holiday						
DH							
LT	Lah Test						
TA	Test attendance						

Monday	13
Tuesday	-18
Wechosday	13
Thursday	13
Friday	12
Total	64



# K.S INSTITUT E OF TECHNOLOGY, BENGALURU-560109 TENTATIVE CALENDAR OF EVENTS: V ODD SEMESTER (2022-2021) SESSION: OCT 2022 – JAN 2023

Manage						KT 2022	SESSION: OCT 2022 – JAN 2023								
Week	Month				War	10.0		Days	Adhibides						
Na.	The state of the s	Mon	Tue	Wed	Thu	loc.	Sat	11000	Minates						
1	ост	10*	-11	12	13	14	15	-6	10+ - Countercommt of V Sen 15-Wednesday Time Table						
1	ост	17	18	19	20	21	22 DH	5							
3	ост	24 10	25	2611	27	28	29	4	24-Naraka Chatandashi 26- Balipadyami Deepavalli 29- Friday Time Table						
4.	OCTINOV	31	in	2	3	4TA	3 DH	4	i - Kannada Rajyotansu						
5	NOV	7 11	8.71.	9.71	10	1111	12	1	11- Kurakadasa Jayanti 12- Wednesday Tane Table						
6	NOV	14	15	16 LT1	174.11	18 LTL	19 DH	3							
7.	NOV	21* FFBI	22.0V	23 ASD	24	В	36	6	21* - First Faculty Feed Bock 26 - Monday Time Table						
8	NOV/DEC	28	29	30	T	2	300	谱							
9	DEC	5	6	7:	OK:	9.	10TA	36	10- Tucsday Time Yable						
10	DEC	12.12	1372	14.72	15	16	17.08	180							
11	DEC	19# FFB2	20	21	22.BV	23	24 ASD	6	39* - Locand Faculty Feed Back 24 - Thursday Time Table						
u	DEC	26	2.7	28	29	-30	31.00	5							
n.	JAN.	2	3.	4	-5	6	7	6	7-Wednesday Time Table						
14	JAN	9	IOTA	urs,	1213	13 73	1#10H	5							
15	JAN	1n	17	18 1.72	10 1/12	20 T.T2	21*	16	ZI-Wednesday Tave Table ZI*-Last Working day						

Total No of Working Days : 79
Total Number of working days ( Excluding holidays and Tests)=64

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TA	Test attentioner						

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Monday	13
Tuesday	13
Wednesday	-13
Thursday	-13
Friday	12
Total	64

PRINCIPAL K.S. INSTITUTE OF TECHNOLI BENGALURU - 500 103



# K.S INSTITUT E OF TECHNOLOGY, BENGALURU-560109 TENTATIVE CALENDAR OF EVENTS: YII ODD NEWESTER (2023-2023)

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Week.	Month			Da		and I	977	Duys	Activities
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F	SEP	10+	20	21	22	23	24 DH	5	19*-Composement of VII Senester
2,	SEPIOCT	36	27	28	29	30.	1	6	1 - Wednesday Time Table
3	OCT	3	46	501	6	27	9.001	3	4-Ayudha Pooja 5- Vijaya Dammi
4	OCT	10	п	12	13	14	15TA	6	15-Friday Time Table
ç	oct	1771	TETT	19.71	10	21	22 DH	5	
ă.	ост	2111	25	26.11	27 LT)	251,T3	28 LT1	4	24-Naraka Chuturdudti 26-Balipadyami Deepavalli
7.	OCTANOV	31	10	-2	J* TFB1	4 BV	5 IOH	4	1- Kannada Rajyottava 3* - First Faculty Feed Back
ĸ	NOV	7 ASD	8:	9	10	Tible:	12	5	11- Kanakadesa Jayanti 12- Tuentay Time Table
9	NOV	34	13	30	97.	18 TA	193011	ž	- I-es
10	NOV	131 (3	27.72	23 172	24	25	26	6.	26 - Wednesday Time Table
'n	NOVIDEC	28 * FFB2	29	30.BV	ī	2 ASD	3 DH	5	35* -Second Faculty Ford Buck
12	DEC	5	6	2	- 1	U	10	6	10- Tuesday Time Table
13	DEC	12	13	14	15	16	17 08	30	
11	DEC	19	20	21 TA	22.73	23.73	(24.13)	6	
18	DEC	267	27	28 L/T2	29.1.72	301/12	31*	6	31-Monday Time Table 31 - Last Working day

Total No of Working Days : 77 ing days ( Excluding holidays and Tests)=62 Total Number of wo

H	Hariday
BV	Olas Book Verification
11.72.73	Tom 1:2,3
ASB	Annual to it Serviced Plays
Dil	Dischard Hefsby
1.7	Lab Tark
TA	You attendance

Monday	13
Tuesday	.13
Wednesday	12
Thursday	12
Friday	12
Total	62

LS INSTITUTE OF TECHNOLOGY BENGALURU - 580 109



# K. S INSTITUTE OF TECHNOLOGY, BENGALURU-560109

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

TENTATIVE CALENDAR OF EVENTS: III ODD SEMESTER (2022-2023)

SESSION: OCT 2022 - FEB 2023

Week	Month			Da	y			Days		Department Activities
No.		Mon	Tue	Wed	Thu	Fri	Sat	Uaya	Activities	Tentative Dates
10	OCT/ NOV	31*	ш	2	3	4 TA	5 DH	•	31* - Commencement of III Sem I- Kannada Rajyotsava	Nov. 2nd - Industrial Visit for 5th seas
2	NOV	7	*	9	10	m	12	5	11- Kanakadasa Jayanti 12- Tuesday Time Table	Nov. 8th Self Happines & Resilience Nov. 12th - FDP on "Patent Search and Analysis" for students & staff.
3	NOV	14	15	16	17	18	19 DH	5		Nov. 15 - IEEE Awareness for 1st year stadents Nov. 16th - Talk Under ASH/IEEE-WIE for 5th & 7th sem Nov.17th - Talk on Entrepreneurship development Skill Under ISTE
4	NOV	21	22	23	24	25	26 TA	6	26 - Wednesday Time Table	Nov. 24,25&26th -3 days "Flands-on Workshop or Embedded system Design using Raspberry pico" for students
5	NOV/ DEC	28 17	2011	301)	1	2	3 DH	5		Nov. 28th & 29th AICTE Activity
6	DEC	5	6	7	8 LTI	91.71	10 LTI	6	10- Tuesday Time Table	Dec.8th & 9th - Workshop for 3rd & 5th sems students Under Garat Aerobotics Club Dec. 10th - Guest Lecture on "Addressing challenges in research publications" for students & Staff
7	DEC	12 ° FFB1	13 BV	14 ASD	15	16	17 DH	5	12* - First Faculty Feed Back	Dec. 12th- Motivational Talk Under ISTE
8	DEC	19	20	21	22	23	24	6	24 - Wednesday Time Table	Dec. 24th- Industrial Visit for 3rd sees
9	DEC	26	27	28	29	39	31 TA	6	31 - Monday Time Table	Dec. 30th- Carrier Guidance
10	JAN	272	3.72	+T2	5	6	7 DH	5		Jan 5th - Miniproject Exhitien
n	JAN	9	10	11	12 BV	13 ASD	7-16	5	14- Makara Sankrambi	
12	JAN	16* FFB2	17	18	19	20	21 DE	5	16* - First Faculty Feed Back	
13	JAN	23	24	25	28911	27	28	5	26- Republic Day 28- Wodnesday Time Table	
14	JAN /FEB	30	31	1 TA	2 13	310	4 DH	5		
15	FEB	672	7	8 LT2	91.72	10 LT2	111*	6	11- Thursday Time Table 11* - Last Working day	

Total Number of working days (Excluding holidays and Tests)=64

H	Holiday			
BV	Blue Book Verification			
T1,T2, T3	Tests 1,2, 3			
ASD	Attendance & Sessional Display			
DH	Declared Holiday			
LT	Lab Test			
TA	Test attendance			

Monday	Excluding holidays and 13
Tuesday	13
Wednesday	13
Thursday	13
Friday	12
Total	64

HEAD OF THE DEPARTMENT Dept. of Electronics & Communication Engo K.S. Institute of Technology Bengaluru - 560 109

PRINCIPAL

K.S. INSTITUTE OF TECHNOLOGY

BENGALURU - 560 109.



# K. S INSTITUTE OF TECHNOLOGY, BENGALURU-560109

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING TENTATIVE CALENDAR OF EVENTS: V ODD SEMESTER (2022-2023)

SESSION: OCT 2022 - JAN 2023

Werk				D	47		yez ze	Days	Activities	Department Activities Tentative Dates
No.	Month	Mon	Yor	Wed	Thu	Fri	Sat		And the second	
1	ост	10*	11	12	13	14	15	6	10* - Commencement of V Sem 15- Friday Time Table	Oct. 10th & 11th Workshop Under Anthuried Oct 15th - IEEE day
2	ост	17	18	19	20	21	22 DH	5		Oct21st - Industrial Vaux for 7th sem
,	ост	24 H	25	26 11	27	28	29		24-Naraka Chaturdanhi 26- Balipadyumi Deepavalli 29- Wedinesday Tane Table	
4	OCT/ NOV	31	18	2	3	4	5 DH		I- Kannada Rajyobawa	Nov. 2nd - Industrial Visit for 5th sem
5	NOV	,		9	10	vin	12 TA	5	11- Kanakadasa Joyanti 12- Tucaday Time Tahlo	Nov. 8th Self Happines & Resilience Nov. 12th - FDP on "Patent Search and Analysis" for students & staff.
6	NOV	iin	1571	1671	17	18	19 DH	5		Nov. 15 - IEEE Awareness for 1st year student Nov. 16th - Talk Under ASH/TEEE-WIE for St & 7th sem Nov.17th -Talk on Entrepreneurship development Skill Under ISTE
7	NOV	21	22	23 LTI	24 LTI	25 LT1	26	6	26 - Wednesday Time Trible	Nev. 24,25&26th -3 days "Hands-on Worksho en Embedded system Design using Raspberry pico" for students
8	NOV/ DEC	28 ° FFB1	29 BV	30 ASD	ī	2	300	5	28* - First Faculty Food Back	Nov. 28th & 29th AJCTE Activity
9	DEC	5	6	7	8	9	10	6	10- Tuesday Time Table	Dec.8th & 9th - Workshop for 3rd & 5th sem students Under Gurut Acrobotics Club Dec. 10th - Guest Lecture on "Addressing challenges in research publications" for student & Stuff
10	DEC	12	13	14	15	16 TA	17 DH	5		Dec. 12th- Motivational Talk Under ISTE
11	DEC	10.12	20 T2	2) 72	22	23	24	6	24 - Wednesday Time Table	Dec. 24th-Industrial Visit for 3rd sem
12	DEC	26	27	28	29 * FFB2	30 BV	31 ASD	6	29* -Second Faculty Food Back 31 - Monday Time Table	Dec. 30th-Carrier Guidance
13	JAN	2	3	4	5	6	7 (20)	5		Jan 5th - Miniproject Exhition
14	JAN	9	10	II.	12	13.	mi	5	14- Makara Sankrami	
15	JAN	16	17 TA	18 13	19.13	29 T.I	21 DH	5		
16	JAN	23 LT7	24 LT2	25 LT2	7/01	27*		4	26- Republic Day 27* - Last Working day	

Total Number of working days ( Excluding holidays and Tests)=67

H	Holiday
BV	Blue Book Verification
T1,T2, T3	Tests 1,2,3
ASD	Attendance & Sessional Display
DH	Declared Holiday
LT	Lab Test
TA	Test attendance

Monday L	13
Tuesday	13
Wednesday	13
Thursday	14
Friday	14
Total	67

HEAD OF THE DEPARTMENT Out. of Electronics & Communication Engo K.S. Institute of Technology Bengaluru - 560 109 PRINCIPAL

K.S. INSTITUTE OF TECHNOLOGY

BENGALURU - 560 109.



# K. S INSTITUTE OF TECHNOLOGY, BENGALURU-560109

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING TENTATIVE CALENDAR OF EVENTS: VII ODD SEMESTER (2022-2023)

SESSION: SEP 2022 - DEC 2022

Week	Month			Da	y			Days	Activities	Department Activities Tentative Dates
Na.	Month	Mon	Tue	Wed	Thu	Fri	Sat			1,000.00
1	SEP	19*	20	21	22	23	24 DH	5	19*-Commencement of VII Semester	
2	SEP/ OCT	26	27	28	29	30	1	6	1 - Wednesday Time Table	Sep 26th to 30th - FTM Under IEEE, IEI, IET & ISTE
3	ост	3	411	581	6	7	8 DH	3	4-Ayudha Pooja 5- Vijaya Dasami	
4	ост	10	11	12	13	14	15 TA	6	15-Friday Time Table	Oct. 10th &11th Workshop Under Anthoriksh Oct 15th - IEEE day
5	ост	1771	18.31	1971	20	21	22 DH	5		Oct21st - Industrial Visit for 7th sem
6	ост	24 H	25	26 H	22 1.11	10 UT1	in	4	24-Naraka Chaturdashi 26- Balipadyami Deepavalli	
7	OCT/ NOV	31	110	2	J*	4 BV	5 DH	4	1 - Kannada Rajyotsava 3* - First Faculty Feed Back	Nov. 2nd - Industrial Visit for 5th sem
8	NOV	7 ASD	8	9	10	10 118 12		5	11- Karukadisa Jayanti 12- Tuesday Time Table	Nov. 8th Self Happines & Resilience Nov. 12th - FDP on "Patent Search and Asol for students & staff."
9	NOV	14	15	16	17	18 TA	19 DH	5		Nov. 15 - IEEE Awareness for 1st year students Nov. 16th - Talk Under ASH/IEEE-WIE for 5th & 7th sem Nov.17th -Talk on Entrepreneurship development Skill Under ISTE
10	NOV	10.0%	ú ie	ent	24	25	26	6	26 - Wednesday Time Table	Nov. 24,25&26th -J days "Hards-on Workshop on Embedded system Design using Raspberry pice" for students
11	NOV/ DEC	28 * FFB2	19	30 BV	.1	2 ASD	3 DH	5	28* -Second Faculty Feed Back	Nov. 28th & 29th AICTE Activity
12	DEC	5		7		9	10		10-Tuesday Time Table	Dec 8th & 9th - Workshop for 3nd & 5th sem- students Under Garut AeroModeling Club Dec. 10th - Guest Eccure on "Addressing challenges in research publications" for students & Staff
13	DEC	12	13	14	15	16	17 DH	5		Dec. 12th- Metivational Talk Under ISTE
14	DEC	19	20	21 TA	12/13	10 10	2111	6		Dec. 24th- Industrial Visit for 3rd sem
15	DEC	26	27	18 172	.20 1,172	30 LT2	31*	6	31-Monday Time Table 31 - Last Working day	Dec. 30th- Carrier Gustance

Total Number of working days ( Excluding holidays and Tests)=62

II	Holiday			
BV	Blue Book Venification			
T1,T2, T3	Tests 1,2, 3			
ASD	Attendance & Sessional Displa			
DIII	Declared Holiday			
LT	Lab Test			
TA	Test attendance			

HEAD OF THE DEPARTMENT Dept. of Electronics & Communication Engo K.S. Institute of Technology Bengaluru - 560 109

K.S. INSTITUTE OF TECHNOLOGY BENGALURU - 560 109,



# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE

VII SEM (2018 SCHEME) I SESSIONAL TEST TIME TABLE (2022-2023)

DATE: 11-10-2022

DATE	TIME	COMPUTER SCIENCE AND ENGG	ELECTRONICS AND COMMUNICATION ENGG	ELECTRONICS AND TELECOMMUNICATION ENGG	MECHANICAL ENGG
27-10-2022 THURSDAY	930 AM TO 11.00 AM	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (18CS71)	COMPUTER NETWORKS (18EC71)	OPTICAL COMMUNICATION (18TE71)	CONTROL ENGINEERING (ISME7!)
	2.00 PM TO 3.30 PM	BIG DATA ANALYTICS (18CS72)	VLSI DESIGN ( 18EC72)	WIRELESS COMMUNICATION (18TE72)	COMPUTER AIDED DESIGN & MANUFACTURING (18ME72)
28-10-2022 FRIDAY	9.30 AM TO 11.00 AM	USER INTERFACE DESIGN (18C5734)	SATELLITE COMMUNICATION (18ECT32)	SATELLITE COMMUNICATION (18EC732)	TOTAL QUALITY MANAGEMENT (18ME734)
	2.00 PM TO 3.30 PM	CRYPTOGRAPHY (18CS744)	CRYPTOGRAPHY (18EC744)	CRYPTOGRAPHY (18EC744)	ADDITIVE MANUFACTURING (IBME741)
29-10-2022	9.30 AM TO 11.50 AM	ENERGY AND ENVIRONMENT (18ME751)	ENERGY AND ENVIRONMENT (18ME751)	ENERGY AND ENVIRONMENT (18ME751)	PYTHON APPLICATION PROGRAMMING (18C5752)
SATURDAY	2.00 PM TO 3.30 PM	12		_	-

ACADEMIC COORDINATOR
HIERO of the Department
Dept. of Machanical Engl
M.B. Institute of Technology
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BENGALURU - 500 109

## K.S.INSTITUTE OF TECHNOLOGY, Bangalore - 109

VII SEM I SESSIONAL TEST INVIGILATION DUTY (2022-2023)

Date	Timings	201	203	204	205	206	207	208	209
27-10-2022 THURSDAY	9:30 am to 11:00 am	BK (CSE)	NM (ME)	KG (CSE)	RGL (ME)	PR (CSE)	PA (ECE)	PS (ECE)	AKG (ECE)
	2:00 pm to 3:30 pm	PR (CSE)	MBR (ME)	KMS (CSE)	PHS. (CSE)	SST (ECE)	SB (ECE)	LK (CSE)	PS (ECE)
28-10-2022 FRIDAY	9:30 am to 11:00 am	KMS (CSE)	AKG (ECE)	SB (ECE)	PKN (CSE)	MER (ME)	PA PS	SST (ECE)	(CSE)
	2:00 pm to 3:30 pm	BK (CSE)	SST (ECE)	PKN (CSE)	(ECE)	RGL (ME)	(CSE)	NM (ME)	AKG (ECE)
29-10-2022 SATURDAY	9:30 am to 11:00 am	LK (CSE)	PA (ECE)	GR (CSE)	MBR (ME)	PHS (CSE)	AKG (ECE)	RGL (ME)	KG (CSE)

ACLOBATE INCHARGE

Mr. Krishna Gudi	KG	Dr. Surekha	SB
Mr. Prashanth HS	PHS	Mr. Praveen	PA
Mrs. Beena K	BK	Mr. Saleem S Tevaramani	SST
Mrs. Goetha R	GR	Mr. Aswini Kumar	AKG
Mrs. Pallavi K N	PKN	Mrs. Pooja S	PS
Mrs. Kavya M S	KMS	Mr. Nagabhushana M	NM
Mrs. Pallavi R.	PR	Mr. Manjunath B R	MBR
Mr. Laxmikantha K	LK	Mr. Rajesh G L	RGL

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# K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109 VII SEM 2018 SCHEME

FIRST INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)

ROOM No: 201

### **BLACK BOARD**

VII 'A' CS	VII 'A' EC	VII 'A' CS	VII 'A' EC	V11 'A' C5	AII , W, EC
1KS19CS001	1KS19EC001	1KS19CS007	1KS19EC007	1KS19CS015	1KS19EC014
1KS19CS002	1KS19EC002	1KS19CS009	1KS19EC008	1KS19CS016	1KS19EC015
1KS19CS003	1KS19EC003	1KS19CS010	1KS19EC009	1KS19CS017	1KS19EC016
1KS19CS004	1KS19EC004	1KS19CS011	1KS19EC010	1KS19CS018	1KS19EC017
1KS19CS005	1KS19EC005	1KS19CS012	1KS19EC011	1KS19CS019	1KS19EC018
1KS19CS006	1KS19EC006	1KS19CS014	1KS18EC012	1KS19C5020	1KS19EC019

VII CS 'A ' SEC Total = 18

VII EC'A' SEC Total = 18

ACADEMIC COORDINATOR
Head of the Department
Dept. of Mechanical Engl
K.S. hardwite of Technology
Bengalaru - 580 105.

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### K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109 VII SEM 2018 SCHEME

# FIRST INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)

ROOM No: 203

BLACK BOARD

VII 'A' CS	VII 'A' EC
1KS19CS021	1KS19EC020
1KS19CS022	1KS19EC021
1KS19CS023	1KS19EC022
1KS19CS024	1KS19EC023
1KS19CS025	1KS19EC024
1KS19CS026	1KS19EC025

VII 'A' CS	AII ,W, EC
1KS19CS028	1KS19EC027
1KS19CS029	1KS19EC028
1K819C5030	1KS18EC029
1K519C5031	1KS19EC030
1KS19CS032	1KS19EC031
1K\$19CS033	1KS19EC032

VII 'A' CS	ATL .W. HE
1KS19CS034	1KS19ME001
1KS19CS035	1KS19ME002
1KS19CS036	1KS19ME003
1KS19CS038	1KS19ME004
IKS19CS039	1KS19ME005
1KS19CS040	1KS19ME008

VII CS'A'SEC Total = 18
VII EC'A'SEC Total = 12
VII ME'A'SEC Total = 06

ACADIMIC COORDINATOR
Head of the Coordinator
Dept. of Mechanical Engs.
K.S. Inadiate of Technology
Bengalum - 550 103.

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BENGALURU - 570 109

### K.S.INSTITUTE OF TECHNOLOGY, BANGALORE- 109

VII SEM 2018 SCHEME

FIRST INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)

ROOM No: 204

### BLACK BOARD

VII 'A' CS	VII 'A' EC	VII'A' C5	VII 'A' EC	VII 'A' CS	VII 'A' ME
1KS19CS041	1KS19EC033	1KS19CS047	1KS19EC040	1KS19CS053	1KS19ME009
1KS19CS042	1KS19EC035	1KS19CS048	1KS19EC041	1KS19CS054	1KS19ME010
1KS19CS043	1KS19EC036	1KS19CS049	1KS19EC042	1KS19CS055	1KS19ME011
1KS19C5044	1KS19EC037	1KS19CS050	1KS19EC043	1KS19CS056	1KS19ME013
1KS19CS045	1KS19EC038	1KS19CS051	1KS18EC044	1KS19CS057	1KS18ME014
1KS19CS048	1K519E0039	1KS19CS052	1KS19EC045	1KS19C8058	1KS19ME016

VII CS 'A' SEC Total = 18

VII EC'A' SEC Total = 12

VII ME 'A' SEC Total = 06

ACADEMIC COORDINATOR
HIRD of the Department
Dept. of Mechanizal Engli
K.S. Ine (Incl. of Technology
Bangalere - 583 109.

4.3 INSTITUTE OF TECHNIQUE. BENGALURU - 570 153

### K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109

### VII SEM 2018 SCHEME

FIRST INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)

ROOM No: 205

### BLACK BOARD

VIII A & B' CS	VII 'A' EC	VII 'B' CS	VEI 'A' EC	VII 'B' CS	AII ,V, HE
1KS18CS011	1KS19EC048	1KS19CS060	1KS19EC052	1KS19C5066	1KS19ME016
1KS19CS116	1KS19EC047	1KS19CS061	1KS19EC053	1KS19CS067	1KS19ME017
1KS20CS400	1KS19EC04B	1KS19CS062	1KS19EC054	1KS19CS068	1KS19MED18
1KS20CS404	1K819EC049	1KS19CS063	1KS19EC055	1KS19CS069	1KS19ME019
1KS20CS402	1KS19EC050	1KS19CS084	1KS19EC056	1KS19CS070	1KS19ME020
KS19CS059	1KS19EC051	1KS19CS065	1K519EC057	1KS19CS071	1KS19ME021

VII CS 'A ' SEC Total = 05 VII CS 'B' SEC TOTAL = 13

VII EC 'A' SEC Total = 12

VII ME 'A' SEC Total = 06

ACADEANC COORDINATOR
Here of the Department Engs.
K.S. Institute of Technology
Bangaluru - 550 109.

PRINCIPAL KS INSTITUTE OF TECHNOLOG BENGALURU - 370 103

# K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109

VII SEM 2018 SCHEME

FIRST INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)

ROOM No: 206

### BLACK BOARD

and the second	VII 'A' EC	VII 'B' CS	VII 'A & B' EC
AIT, B, C2		1KS19CS078	1KS19EC085
1KS19CS072	1KS19EC068	Ikalecoolo	1KS19EC066
1KS19C5073	1KS19EC059	1KS19C5079	
1KS19CS074	1KS19EC081	1KS19CS080	1KS1SEC067
1KS19C5075	1KS19EC062	1KS19CS081	1KS19EC068
1KS19CS076	1K519EC063	1KS19C6082	1KS19EC069
1KS19CS077	1KS19EC064	1KB19CS083	1KS19EC079

VII 'A' ME	AII .B. EC
1KS19ME0Z2	1KS196C071
1KS19M8023	1KS19EC073
1KS19ME024	1/51990074
1K519ME025	1KS19EC075
LKS19ME028	1KS19EC076
1KS19HE027	1KS19E0077

VII CS 'B ' SEC Total = 12

VII SC 'A' SEC Total = 08 VII SC 'B' SEC TOTAL = 19

VII ME 'A' SEC Total = 06

ACADEMIC COORDINATOR Harfol the English Fresh Holl of Machanical English K.S. Inchest of Tachnology Bengaters - 556 105.

K.S. INSTITUTE OF TECHNOLOGIC BENGALURU - 560 100

#### K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109 VII SEM 2018 SCHEME

FIRST INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)

ROOM No: 207

#### **BLACK BOARD**

AII ,B, C2	ATT B. EC	VII n cs	ATT .B. EC	VII 'A' ME	A11 ,8, 50
1KS19CS084	1KS19EC078	1K519C5090	1KS19EC085	1KS19ME028	1KS19EC092
1KS19CS085	1KS19EC079	1KS19CS091	1KS19EC088	1KS19ME029	1KS19EC093
1KS19CS085	1KS19EC061	1KS19CS092	1K819EC067	1KS19ME030	1KS19EC064
1KS19CS087	1KS19EC082	1KS19CS093	1KS19EC088	1KS19ME032	1KS19EC095
IKS19CS088	1KS19EC083	1K819C3084	1KS19EC089	1KS19ME033	1KS19EC096
KS19CS089	1KS19EC084	1KS19CS096	1KS19EC090	1KS19ME034	1KS19EC097

VII CS'B'SEC Total = 12 VII EC'B'SEC Total = 18

VII ME 'A ' SEC Total = 06

ACADEMIC GOORDINATOR Head of the Department Dept. of Nechanical Engly K.S. headade of Technology Beogskuru - 556 102. PRINCIPAL PRINCIPAL RENGALURO - 80 MG 103

# K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109

VII SEM 2018 SCHEME

FIRST INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)

**ROOM NO: 208** 

#### BLACK BOARD

AII .B. C2	VIX 'B' EC
1KS19CS097	1KS19EC098
1KS19CS098	1KS19EC099
1KS19CS099	1KS19EC100
1KS19CS100	1KS19EC101
1KS19CS101	1KS19EC102
1KS19CS102	1KS19EC103

VII 'B' CS	ALL .B. EC		
1KS18CS103	1KS19EC104		
1KS19CS104	1KS19EC105		
1KS19CS105	1K819EC108		
1K\$19C\$108	1KS19EC107		
1KS19CS107	1KS19EC108		
1KS19CS108	1KS18EC089		

VII 'A' ME	VII 'S' EC &
1K\$19ME035	1KS20EC400
1KS19ME036	1KS20EC401
1KS19ME037	1KS20EC402
1KS19ME039	1KS18TROOS
1KS19ME040	1K519HT003
1KS18ME001	1KS19ET003

VII CS 'B' SEC Total = 12

VII EC 'B ' SEC Total = 18

VII HE 'A ' SEC Total = 06

ACADEMIC COORDINATOR

Kast of the Department

Dept of Mechanical Engl

K.S. Inerbyte of Technology

Vergalure - 559 103.

A.S. INSTITUTE OF TECHNOLOGISMON SENSALURU - SEO 109

Room	No: 201					
SL-NO	REGISTER NO.	COMPUTER NETWORKS (18EC71)	VLSI DESIGN (18EC72)	SATELLITE COMMUNICATIO N (18EC732)	CRYPTOGRAPHY (18EC744)	ENERGY AND ENVIRONMENT (18ME751)
1	1KS19EC001	Aut	Ag-	Augo	Auris 0	buted
2	1KS19EC002	Ano	Acres	Auto	Agus	Acro
3	1KS19EC003	Allyways	dihumaya	Lihuany	Airkuaryas	Auhurnya
4	1KS19EC004	dish!	dishl	darl.	dight	dubl
5	1KS19EC005	duis	due	Jus	Jul-	Jul
6	1KS19EC006	pachee	Ahring	AMA	AKANZ	<b>HEART</b>
7	1KS19EC007	Annual Co.	amother.	Meent	anno when.	$\leftarrow \mathcal{I}_{1} \land \rightarrow$
8	1KS19EC008	Anulya.	Anulya.	Amulya.	Amuly	Amulya
9	1KS19EC009	ditta	-AB	Avatta	Anter	Anthe
10	1KS19EC010	AB	Anjaliyi	Anjaligh	Anjaligh	Anjaliy
11	1KS19EC011	AB	-AB-	Archeuro M	Archana. H	Archaner
12	1KS19EC012	(Blue	(Alex	Asi	Dea	Alexander 1
13	1KS19EC014	Brows	Broxy	Blood	Burg	Burg
14	1KS19EC015	chairme	chail resp	chaitrap	chaitage	chair of
15	1KS19EC016	Chadu Pa!	Charda Rot	Charden Rait	Charduly 1.	Charles Reg 1
16	1KS19EC017	UM.	UM.	de	I de	e AB-
17	1KS19EC018	Prys.	- AB -	dun-	Dunt-	dun.
18	1KS19EC019	Charlain	-42-	Charthorati	agatene y K	Unoath v.
DATE:		27/10/22	Q7/10/22		28/10/10	28/10/22
NO. OF	STUDENTS NT	16	13	14	18	16
NO. OF ABSEN	STUDENTS T	2	05	0)	0	08
	OF INVIGILATOR	Beenak	Pallavif	Karya MS	Beenerk	LK
	TURE OF LATOR	1	Jale	Layel	1	4

SLNO	REGISTER NO.	COMPUTER NETWORKS (18EC71)	VLSI DESIGN (18EC72)	SATELLITE COMMUNICATIO N (18EC732)	CRYPTOGRAPHY (18EC744)	ENERGY AND ENVIRONMENT (IBME751)
1	1KS19EC020	Nau	North	AD	New	Noyer
2	1KS19EC021	2	As	Di	Abe-	D
3	1KS19EC022	and	aus	AB	quill	gard
4	1KS19EC023	AB	Ag	Druesto	Maure -	Muy
5	1KS19EC024	wy	KM	The	TIMM	VEA
6	1KS19EC025	Dichelin	Ochan	galadus	814 Marie	Bylthe
7	1KS19EC027	Gall.	ham.	Cast.	hau.	aul.
8	1KS19EC028	epipth	Contract	lospin.	broken	yought
9	1KS19EC029	AB	AL	Sidda Le	g; ddantra.	(-AB-)
10	1KS19EC030	150	G-100-	Aß	50	20
11	1K\$19EC031	Harshill	As	Hareh 12	Harsh B	Hurch B
12	1KS19EC032	BYHUMA	ByHank	BY Hamil	B.Y. Hawwil	B. y. hams
DATE:		27/10/2022	27/10/25	28/10/22	deluler	29/10/22
NO. OF	STUDENTS NT	10	oi	09	12	11
NO. OF ABSEN	STUDENTS T	2	04	03	0.0	01
NAME	OF INVIGILATOR	HUMBOCH	Marjake	G. Assin Your	Salery Stevers	Praveen
-	TURE OF LATOR	tud port	the	18	3511	Park

ROOM	NO: 204				and the second second	
SLNO	REGISTER NO.	COMPUTER NETWORKS (18EC71)	VLSI DESIGN (18EC72)	SATELLITE COMMUNICATIO N (INEC732)	CRYPTOGRAPHY (18EC744)	ENERGY AND ENVIRONMENT (18ME751)
1	1KS19EC033	Derp	Oct 1	Qt. P	Disti 1-	Dix.R
2	1KS19EC035	qual	por	pres	Med	freely
3	1KS19EC036	Toyell	Tot	Jayad	Toul	Toll
4	1KS19EC037	Mounger	Mounding	Marioers	Manapa	Mounegra
5	1KS19EC038	Kenth	Steam	Kurlo	llus	Ilus
6	1KS19EC039	as	(Rec	Que	Que	(RO )
7	IKS19EC040	tu d	su d	Er d	to d	Jud.
8	1KS19EC041	Knuthit =	Kushir S	Kuthite	Kruthi K	Kuntil K. 2
9	1KS19EC042	(OH) HANKING	Olbern	Calestronhouses	(akanamana)	(aktharkum
10	1KS19EC043	9KHLA. U.	Mithau H.	9kHa.H.	94412.41	Withe H.
11	1KS19EC044	ABSTUT	(H. Lota)	(Mat.M)	Holok	H. LOH)
12	IKS19EC045	May !tak	Madley	Margh Ku	Manhlens	May bady
DATE:		27 10 22	24 10 22	28/10/22	28/10/22	29/10/20
NO. OF	STUDENTS T	11	10	12	12	19
NO. OF S	STUDENTS	01	02	00	- Nil-	-00-
NAME O	F INVIGILATOR	Krishna	KaryaMS	Dr.B.Sarekto	PallarikN	Geetho-P
SIGNAT INVIGIL	URE OF ATOR	XqL.	10	500	pk.	Garle

Koom	No: 205	_				1
SLNO	REGISTER NO.	COMPUTER NETWORKS (18EC71)	VLSI DESIGN (18EC72)	SATELLIFE COMMUNICATIO N (18EC732)	CRYPTOGRAPHY (18ECT44)	ENERGY AND ENVIRONMENT (18ME751)
1	1KS19EC046	Muly.	merg.	- f\B-	my	map
2	1KS19EC047	_ A6 -	- AB	@ Noot	appleal)	RIBER
3	1KS19EC048	8	B	8	8	B
4	1KS19EC049	Houite	Unite	wit	Monito	Horika
5	1KS19EC050	Marshet	Moushable	Moranth	Moushable	Monshok
6	1KS19EC051	arich	Quil	Wich.	المين الم	Birt
7	1KS19EC052	Wilhi 1)	Wallet	- Alabara	- AB	- (AB) -
8	1KS19EC053	Nivango 1		Minaryard	Miranda ?	Melango R
9	1KS19EC054	NINKIN. O	Nithen D	Nithers	Nither D	Nether-P
10	1KS19EC055	pavant	pavant	gavant	pavarl	pavant
11	IKS19EC056	Q-16-4	am.	S.Mp.	647	9 Mr. W
12	1KS19EC057	-AR -	Pacifoup	Poolow	Poer	190g/W
ATE:		27 10 2016	27 10 22	28/10/2022	28 10 22	24/10/22
O. OF S	TUDENTS T	10	1.1	11	t)	11
O. OF S	STUDENTS	62	01	01	01	01
AMEO	FINVIGILATOR	RAJESHGL	Pragheith	Pallavi. KN	Proveen	manjunaty
NVIGIL	The state of the s	De J. Holy	1 2 Justi	P 28/10	(D)	He

Room	No: 206					1
SL.NO	REGISTER NO.	COMPUTER NETWORKS (18EC71)	VLSI DESIGN (ISEC72)	SATELLITE COMMUNICATIO N (18EC732)	CRYPTOGRAPHY (18EC744)	ENERGY AND ENVIRONMENT (IRME751)
1	IKS19EC058	Books A.	-(AB)-	(Barbert 95	Bradad A.	Bode da
2	1KS19EC059	full	-(AB)-	blely	black	dust
3	1KS19EC061	(AB)	-(AB)	DIK.	PIK.	904.
4	1KS19EC062	Contrers	Proveers	Provider	PINERL	Proverse
5	1KS19EC063	(AB)	-(AB)-	- (AD-	Bright)	-AB-
6	IKS19EC064	Big	Angel.	Still .	Fige.	- AB -
7	1KS19EC065	Rod Viel	Radille	Pachlaight	Redukielle	Robbish
8	1KS19EC066	240	Right .	Tyli	Tip	Pigli
9	1KS19EC067	QL.	QL-	- (An)	(24.	-AB-
10	1KS19EC068	(AB)	-(AB)-	10	Q.	€
11	1KS19EC069	Houte	Potar bit	- (AO -	Robon L. P	-
12	1KS19EC070	S. K. Barton	EK Bantul	J. KORWISCH	SKOKS steel	SK Barden
13	1KS19EC071	John L. B	Johnsh I?	Jalout 17	- Salarith Fis	Adams 1
14	1KS19EC073	Soboca.s	Sahara.S	Sabara.S	Schana.S.	Sahona.S
15	1KS19EC074	AB)-	(AB)-	-(An)	- AB-	-AB-
16	1KS19EC075	laure	Buch	Same	ganno	lausus.
17	1KS19EC076	Staley	Shally	( Fright?	CHAMMA	Stadishy
18	1KS19EC077	Il.	4	E-	See	4
DATE:		27/10/22	27/10/22	27/10/22	28 10 2022	29/10/22
NO. OF	STUDENTS	14	12	14	17	14
-	STUDENTS	04	06		01	04
7.77	OF INVIGILATOR	Pallavi?		Mr	RAJESH GL	Prasporth
SIGNAT	TURE OF	Tall.	SSTA	Manuel	Frisilio/n	1

SL.NO	REGISTER NO.	COMPUTER NETWORKS (18EC71)	VLSI DESIGN (18EC72)	SATELLITE COMMUNICATIO N (18EC732)	CRYPTOGRAPHY (18EC744)	ENERGY AND ENVIRONMENT (18ME751)
1	1KS19EC078	Rantle	bantle	Barils	Bauthe	A6.
2	1KS19EC079	UNPS	- USPS	此图	WRS	Me
3	1KS19EC081	Queyans	Sheyany	Shee yarm	Swegant	Sugarin
4	1KS19EC082	Sheyasa	Shugar B.	3 haups B.	Shirter B	Shingas B
5	1KS19EC083	Throngon	Churyon	Charitary	- garryod	Sherryal
6	1KS19EC084	Sheyes	Shreyos	Sheyal	Shups	Shuas
7	1KS19EC085	grul.	- AB-	- F3-	250	the state
8	1KS19EC086	din distant	KINCHONAN	MINDLANDIN	MINISTERNA	24
9	1KS19EC087	Short	Diar	Storn	Simo	Die
10	1KS19EC088	88h .	Brie .	Sing.	Bein.	Solina-
11	1KS19EC089	Sainon	Simem #	Soinam RG	Sienam bg	Ciscom. 29
12	1KS19EC090	(AB-)	-AB-	Suhan	dulas	AD
13	1KS19EC092	Sumple	Samuble	Sumble	Surruphe	Sample
14	1KS19EC093	Suhmittas	gulandha &	Separatha 5	Sushultha. S	AB
15	1KS19EC094	6	do	- A8 -	<b>9</b>	0
16	1KS19EC095	(AB-)	Sunthi	Smadle.	gwath	AB.
17	1KS19EC096	Rut	RUH	RIL	BUTI	RUL
18	1KS19EC097	CENTINIA	Cipshini	(cjethtimi-	rija humi	egashwini
ATE:		27/10/22	27/10/22	28/10/22	28/10/22	24/11/21
O. OF S RESENT	TUDENTS	16	16	16	18	13
O. OF S	TUDENTS	02	02	02	00	05
AME OF	FINVIGILATOR	Praveen !	Dr BSwelth		LK	a. Asim torre
GNATU	RE OF		Sor I	atroja	J-	De.

13	10.0	-	
Room	No:	2	08

Room	10: 200					
SL.NO	REGISTER NO.	COMPUTER NETWORKS (18EC71)	VESI DESIGN (18EC72)	SATELLITE COMMUNICATIO N (ISEC732)	CRYPTOGRAPHY (18EC744)	ENERGY AND ENVIRONMENT (ISME751)
1	IKS19EC098	the LOCATION	Thesettan	Thereserve	MINEROND	Therebaya
2	1KS19EC099	-13-	← AB →	6-M->	- AB -	-AB -
3	1KS19EC100	Voishwank	Munit	JOHNOME	Voiltwork	Sichnote
4	1KS19EC101	Vandana	Vanderd	Vandaras	VandanaG	Vandamo
5	IKS19EC102	-13-	Vondara:5	vandara:s	vandaras	Vandara
6	1KS19EC103	R-inganthai	P. Rambuis	D-Karyman	Devignelle bins	Q. Sanshitata
7	1KS19EC104	-AB-	+ AB-	Orlean S	Queans	(ilean-s
8	1KS19EC105	-13-	« AB-»	W.	R	CKR
9	1KS19EC106	Odal.	Clistial	Chila	Olishal.	Wedia
10	IKS19EC107	Viluente		Vilueactor	White and Y	Vilmeaste
11	1KS19EC108	-13-	-AB-	Yasa	Yarm	Yashu
12	1KS18EC089	-18-	← PB-	Snelan	Sneha	_ Ac -
13	1KS20EC400	MAL	←AB->	MAR	MAR	MILLE
14	1KS20EC401	-18->	Raniana.P	Ronjons.P	Ranjana P	- AS-
15	1KS20EC402	-18-	LAE-	Rival.	Birales	-AG -
DATE:		29/10/22	27/10/22	28/10/22	28/10/22	
NO. OF S PRESEN	TUDENTS T	07	08	14	14	25 0 mz
NO. OF S ABSENT	TUDENTS	08	07	01	01	0A
NAME O	FINVIGILATOR	73	LK	SST	Torrespond	
SIGNATI INVIGIL		Chagio	4	100	the aculture	RATESHEL

### K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109

#### Department of Electronics and Telecommunication Engineering Attendance of VII Sem for First Internal Test (2022-2023)

Room	

		1				
SLNO	REGISTER NO.	OPTICAL COMMUNICA TION ( 18TE71)	WIRELESS COMMUNICAT ION (18TE72)	SATELLITE COMMUNICATIO N (18EC732)	CRYPTOGRAPHY (18EC744)	ENERGY AND ENVIRONMENT (18ME751)
1	1KS18TE005	Antibe	dulite	Ankille	Andride	Ankith
2	1KS19ET002	Caitra	Caitra.	Chaitra (.	Chairas	Gastra C
3	1KS19ET003	43	← AB->	White -	Netholika	18
DATE:	27/10/	27/10/22	27/10/22	280/22	28/10/22	29/10/2012
NO. OF PRESEN	STUDENTS	02	02	03	63	02
NO. OF ABSEN	STUDENTS	01	01	0.9	00	01
NAME	OF INVIGILATOR	PS.	LK	SST	th. wordswin	RAJESHAL
SIGNAT INVIGI	URE OF	Spajo	1	201	Miles 17	201101

SL.NO		OPTICAL COMMUNICA	WIRELESS	SATELLITE	CRYPTOGRAPHY	ENERGY AND
SL.NO	REGISTER NO.	TION (18TE71)	ION (18TE72)	N (18EC732)	(18EC744)	(I8ME751)
1	1KS19ET004	orsahader A	mahadel Ac	enchariev AC	creshadov. A C	AB
2	1KS19ET005	AB	Aut	Sur	Ne	1
3	1KS19ET006	Melbin	N- Million	N. Nellein	Nellsin.	N-Noll
4	1KS19ET007	Nine-pull	Nimmigan 584	Nissanjon (BB	Minarjan & Page	Ninaman's B
5	1KS19ET008	AB	-AB->	<-AB→	AB.	AB
6	1KS19ET009	Rout	Retuit	Rethit	Reflit	AB
7	1KS19ET010	Alyank	South	dyout	Mayle.	· Alynik
8	1KS19ET011	Shutter	Shurthan	Slumblas	- Junethale	Shuethat
9	1KS19ET012	AS.	-AB-	Visit	with	As
DATE		82/10/22	29/10/22	28/10/22	2Mdz2	29/10/22
NO. OF PRESEN	STUDENTS VT	06	07-	08	08	05
NO. OF ABSEN	STUDENTS T	03	02	01	0	04
NAME (	OF INVIGILATOR	GAMILTE	75	Geethor R	Chamber .	Kazlue Gil
SIGNAT INVIGI	TURE OF LATOR	GD= V7.	Hoji	Gal	8	Xg4



## K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109 FIRST INTERNAL TEST QUESTION PAPER 2022 - 23 ODD SEMESTER

SET: A

Degree : B. E Semester : VII A& B
Branch : ECE Course Code : 18ME751
Course Title : Energy and Environment Date : 29-10-2022

Duration : 90 Minutes Max Marks : 30

Note: Answer ONE full question from each part.

K-Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6
Creating

Q No.	Question	Marks	CO mapping	K- Level
	PART-A			
l(n)	Interpret World Energy Scenario with respect to production and consumption using relevant statistics.	12	COI	K2
	Explain primary energy demand in India by fuel with sector wise comparison.	6	COI	К2
	OR			
2(a)	Illustrate how the following factors effects the energy development in India:  • Energy prices and Affordability  • Social and environmental aspects  • Investments	12	coı	K2
(b)	Explain:  (i) The Rajiv Gandhi Grameena Vidyutikaran Yojana (RGGVY)  (ii) Deen Dayal Upadhyana Grama Jyoti Yojana (DDUDJY)  (iii) Energy Production in India - Coal (only)	6	COI	К2
	PART-B			
3(a)	Identify and explain the factors relevant to energy pricing.	6	CO2	КЗ
<u>()</u> )	Calculate the cost of generation per kWh for a power station having the following data: Installed capacity of the plant = 200 MW Capital cost = Rs 400 crores Rate of interest and depreciation = 12% Annual cost of fuel, salaries, and taxation = Rs 5 crores Load factor = 50%	6	CO2	кэ
	OR		-	
4(a)	Identify the principles of energy management system	6	CO2	КЗ
(b)	Identify and explain 10 steps methodology for detailed Energy Audit.	6	CO2	К3

Course In charge

Module Coordinator

HOD ECE

Principal



### K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109 FIRST INTERNAL TEST QUESTION PAPER 2022 - 23 ODD SEMESTER

SET: B

Degree : B. E Semester : VII A& B
Branch : ECE Course Code : 18ME751
Course Title : Energy and Environment Date : 29-10-2022

Duration : 90 Minutes Max Marks : 30

#### Note: Answer ONE full question from each part.

K-Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Question	Marks	CO mapping	K- Level
	PART-A			
1(a)	Summarize with relevant statistics, the primary energy production and trade trend for India.	12	соі	K2
(b)	Compare Energy and Power.	6	COI	K2
	OR			
2(a)	Illustrate how economy, demographics, policies, and framework effects the energy development in India.	12	COI	К2
(b)	Summarize the India's rural electrification programme relevant to modern energy access.	6	COI	K2
	PART-B			
3(a)	Identify the need for energy audit, preliminary audit, and detailed audit.	6	CO2	К3
(b)	Calculate the cost of generation per kWh for a power station having the following data: Installed capacity of the plant = 200 MW Capital cost = Rs 400 crores Rate of interest and depreciation = 12% Annual cost of fuel, salaries, and taxation = Rs 5 crores Load factor = 60%	6	CO2	кз
	OR			
4(a)	Identify the need for energy demand estimation.	6	CO2	кз
(b)	Identify and explain various phases of energy audit methodology	6	CO2	КЗ

Course In charge

Module Coordinator

HOPETE

Principal



# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE

VII SEM (2018 SCHEME)

II SESSIONAL TEST TIME TABLE (2022-2023)

DATE: 21-11-2022

DATE	TIME	COMPUTER SCIENCE AND ENGG	ELECTRONICS AND COMMUNICATION ENGG	ELECTRONICS AND TELECOMMUNICATION ENGG	MECHANICAL ENGG			
28-11-2022 MONDAY	9.30 AM TO 11.40 AM	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (18CS71)	COMPUTER NETWORKS ( 18EC71)	OPTICAL COMMUNICATION (18TE71)	CONTROL ENGINEERING (18ME71)			
MONDAY	2.00 PM TO 3.30 PM	BIG DATA ANALYTICS (18CS72)	VLSI DESIGN ( 18EC72)	WIRELESS COMMUNICATION (18TE72)	COMPUTER AIDED DESIGN & MANUFACTURING (18ME72)			
29-11-2022 TUESDAY	930 AM TO 11.00 AM	USER INTERFACE DESIGN (18CS734)	SATELLITE COMMUNICATION (18EC732)	SATELLITE COMMUNICATION (18EC732)	TOTAL QUALITY MANAGEMENT (18ME734)			
	2.00 PM TO 3.30 PM	CRYPTOGRAPHY (18CS744)	CRYPTOGRAPHY (18EC744)	CRYPTOGRAPHY (18EC744)	ADDITIVE MANUFACTURING			
36-11-2022 VEDNESDAY	9.30 AM TO TLOUAM	ENERGY AND ENVIRONMENT (18ME751)	ENERGY AND ENVIRONMENT (18ME751)	ENERGY AND ENVIRONMENT (18ME751)	(ISME741)  PYTHON APPLICATION PROGRAMMING (ISCS752)			
	1130 AM ONWARDS	REGULAR CLASSES/LABS WILL BE HELD						

ACADEMIC COORDINATOR

Dept. of Mechanical Engg. K.S. Institute of Youlmalogy Bengaluna - 560 103. PRINCIPAL

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# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE - 109

VII SEMESTER SECOND SESSIONAL TEST INVIGILATION DUTY (2022-2023)

Date	Timings	201	203	204	205	206	207	208	209
28-11-2022 MONDAY	9:30 am to 11:00 am	PA (ECE)	HU (ME)	KG (CSE)	NM (ME)	KMS (CSE)	SST (ECE)	RGL (ME)	LK (CSE)
**************************************	2:00 pm to 3:30 pm (51E)	2:00 pm to 3:30 pm MBR VM PA	PA (ECE)	AKG (ECE)	PHS (CSE)	lik (CSE)	MN (BS)	MKS (CSE	
29-11-2022 TUESDAY	9:30 am to 11:00 am	MBR (ME)	ST (CSE)	PHS (CSE)	AKG (ECE)	SG (CSE)	NP (CSE)	PS (ECE)	CJ (ECE)
	2:00 pm to 3:30 pm	SD (CSE)	NV (BS)	NM (ME)	PR (CSE)	VO (ECE)	RGL (ME)(R)	. PS	LK (CSE)
30-11-2022 WEDNESDAY	9:50 am to 11:00 am	AMV (BS)	PR (CSE)	BK (CSE)	GR (CSE)	MBR (ME)	NP: (CSE)	SST (ECE)	SK5 (ECE)

NOTE: BLUE BOOK & QUESTION PAPER WILL BE DISTRIBUTED IN VLSI LAB OLD BUILDING 2RD FLOOR

	Dr. Vijayalasmi M	VM	Mr. Heller	
	Mr. Sanjoy Das	SD	Mr. Marish U	140
	Mr. Krishna Godi	KG	Mrs. Anuradha M V	ANIV
	Mr. Prashanth HS	PHS	Mrs. Nagahimahana M	NM
	Mrs. Beena K	BK	Mr. Rajesh G L	RGL
	Mr. Manoj Kumar S	MKS	Mr. Frashmuh H S	PHS
	Mrc Gastier D	GR	Mr. Manjunath B R	MBR
ivigilators :	Mrs. Kavya M S	The state of the s	Mr.Praveen.A.	PA
	Principles of the Control of the Con	KMS	Mr. Salceni. S. Tevaramani	SST
	Mr. Somasekhar T	ST	Ms.Poojn.S	The second second
	Mrs. Supreetha Ganesh	SG	Mr.Ashwini Kumar	PS.
	Mrs. Pullavi R	PR	Mr.Christo Jain	AKG
	Mr. Laxmikantha K	LR		CJ
	Mrs. Namyapriya	NP	Mr.Sampath Kumar,S	SKS
	Mr.Naveon,V	NV	Ms. Vishalini Divakar	VD.
- 32			Mr. Marantha N	MIN

ACADEMICECUOREMENTOR
Dept. of Mischanical Engo

#### K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109 VII SEM 2018 SCHEME

#### SECOND INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)

ROOM No: 201

#### BLACK BOARD

VII 'B' CS	AII .B. EC	VII B' CS	AII .D. EC	VII 'A' ME	VII 'B' EC
1KS19CS097	1KS19EC088	1KS19CS103	1KS19EC104	1KS19ME035	1KS20EC400
1KS19CS098	1KS19EC099	1K319C3104	1KS19EC105	1KS19ME036	1K520EC401
1K319C3099	1KS19EC100	1KS19GS105	1KS19EC106	1KS19ME037	1KS20EC402
1KS19CS100	1KS19EC101	1KS19CS106	1KS19EC107	1KS19ME039	
1KS19CS101	1KS19EC102	1KS19CS107	1KS19EC108	1KS19ME040	
1KS19CS102	1KS19EC103	1KS19CS10B	1KS18EC088	1K318ME081	

VII CS'B' SEC Total = 12

VII EC'S' SEC Total = 15

VII ME 'A ' SEC | Total = 06

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## K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109 VII SEM 2018 SCHEME

# SECOND INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)

#### ROOM NO: 204

#### BLACK BOARD

VII 'A' CS	VII 'A' EC	VII 'A' CS
1KS19CS001	1KS19EC001	1KS19CS007
1KS19CS002	1KS19EC002	1KS19CS009
1KS19CS003	1KS19EC003	1KS19CS010
IKS19CS064	1KS19EC004	1KS19CS011
TKS19CS005	TKS19ECD05	1KB19CS012
KS19C8006	1KS19ECccs	1KS19CB014

AIT ,V, EC	VII 'A' CS	AII ,V, EC
1KS19EC007	1KS19CS015	1KS19EC014
1KS19EC008	1KS19CS016	1K819EC015
1K\$19EC009	1K519C8017	1KS19EC016
KS19EC010	1KS19GS018	1K\$19E0017
1KS19EC011	1KS19CS019	1KS19EC018
KS19EC012	1KS19CS020	1K819EC019

VII CS 'A ' SEC Total = 18 VII EC 'A SEC Total = 18

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#### VII SEM 2018 SCHEME

#### SECOND INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)

ROOM No: 205

#### BLACK BOARD

ATT , W, C2	VII 'A' EC	VII 'A' CS	VII 'A' EC	AII ,V, C2	VII 'A' ME
1KS19CS021	1KS19EC020	1KS19CS028	1KS19EC027	1KS19CS034	1KS19ME001
1K319G8022	1KS19EC021	1KS19CS029	1KS19EC028	1KS19CS035	1KS19ME002
1KS19CS023	1KS19EC022	1KS19CS030	1KS19EC029	1KS19GS036	1KS19ME003
1KS19G\$024	1KS19EC023	1KS19CS031	1KS19EC030	1KS19CS038	1KS19ME004
1KS19CS025	1KS19E0024	1K819CS032	1KS19E0031	1KS19CS039	1KS19MEcos
1KS19C5026	1KS19EC025	1KS19CS033	1KS19EC032	1KS19CS040	1KS19ME008

VII CS 'A ' SEC Total = 18 VII EC 'A ' SEC Total = 12

VII ME 'A ' SEC Total = 06

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### K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109 VII SEM 2018 SCHEME

# SECOND INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)

**ROOM No: 206** 

#### BLACK BOARD

VII A'CS	AII , V, EC	VII 'A' CS	AII ,V, EC	VII 'A' CS	VII 'A' ME
1KS19CS041	1KS19EC033	1KS19CS047	1KS19EC040	1KS19C8053	1KS19ME009
1KS19C9042	1K\$19EC035	1KS19CS048	1KS19E0041	1KS19CS054	TK:S19ME010
1KS19CS043	1K\$19E0036	1KS19CS049	1KS19EC042	1KG19C5055	TKS19ME011
1KS19CS044	1K\$19EG037	1KS19CS050	1KS19EC043	1KS19CS056	1KS19ME013
1K\$19CS045	1K\$19EC038	1K\$15G5051	1KS19EC044	1KS19CS057	1KS19ME014
IK\$19C\$046	1KS19E0039	1KS19C9052	1KS19EC045	1KS19CS058	1KS19WE015

VII CS 'A ' SEC Total = 18

VII EC'A' SEC Total = 12

VII ME 'A ' SEC Total = 06

ACADEMIC COORDINATION
Head of Coordination
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# VII SEM 2018 SCHEME

# SECOND INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)

ROOM NO: 207

#### BLACK BOARD

		The state of the s	GBOARD		
VII 'A & B' CS	Att .W. EC	VII 'B' CS	VII 'A' EC	VII 'B' CS	19032185-1-
1KS18CS011	1KS19ECD46	1KS19CS050	1K819EC052		VII 'A' M
1KS19CS116	1KS19EC047			1KS19CS066	1K519ME01
1KS20US400		1KS19CS061	1KS19EC063	1K\$19C\$067	1KS19ME01
	1K519ECD48	1KS19CS062	1K\$19EC054	1KS19CS068	1KS19ME018
1KS20CS404	1KS19EC049	1K\$19C3063	1KS19FC056	1KS19G5069	1KS19ME019
IK\$20C\$402	1KS19E0050	1KS19GS064	1KS19EC056		TIKG I SINE DI TR
KS19C5059	IKS19E0061	- AND	1110100000	1KS19CS070	TKS19ME020
	77700001	1KS19CS065	1KS19EC057	1KS19CS071	1KS19ME021

VII CS 'A ' SEC Total = 05 VII CS 'B' SEC TOTAL = 13

VII EC 'A ' SEC | Total = 12

VII ME 'A ' SEC Total = 06

ACADEMIC COORDINATOR
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K.3. Inceptute of Technology Gregalutu - 590 100.

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#### K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109 VII SEM 2018 SCHEME

SECOND INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)

**ROOM NO: 208** 

#### BLACK BOARD

VII 'B' CS	AII ,V, EC	VII'B' CS	VII 'A & B' EC	VII 'A' ME	ATT B. EC
1KS19CS072	1KS19EC058	1KS19GS076	1KS19EC065	1KS19ME027	IK51VEC071
1KS19CS0/3	1KS19EC059	1KS19CS079	1KS19EC086	1%210ME(0))	1KS)98C079
1KS19CS074	1KS19EC061	1KS19CS080	1K319EC067	1K519ME024	LKS198C074
1K319C3075	1K\$19EC082	1KS19CS081	1KS19EC068	IKSISMEUJS	1K9198C075
1KS19CS076	1KS19FC063	1KS19CS082	1KS19EC069	1×210ME05#	1/S10EC076
1KS19CS077	1KS19EC064	1KS19CS083	1KS19EC070	1KS19ME027	165,980077

VII CS 'B ' SEC Total = 12

VII EC 'A ' SEC Total = 05 VII EC 'B' SEC TOTAL = 10

VII ME 'A ' SEC Total = 06

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K.S. INSTITUTE OF TECHNOLOG
BENGALURU - 560 109

## K.S.INS TUTE OF TECHNOLOGY, BANGALORE - 109 VII SEM 2018 SCHEME

# SECOND INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)

ROOM No: 209

#### BLACK BOARD

VII '8' CS	AII ,B, EC	VII '8' CS	AII .B. EC	AII ,M, WE	VII 'B' EC
1KS19CS084	1KS19EC078	1KS19CS090	1KS19EC08s	1K\$19ME078	1KS19EQ090
1KS19CS08š	1KS10EC079	1KS19CS091	1KS19EC086	1KS19ME029	1K\$10EC093
1KS19CS065	1KS19ECD81	1KS19CS092	1KS19EC067	1KS19ME030	1KS19EC09
1K519CS087	1KS10EC082	1KS19CS093	1KS19EC088	1KS19ME032	1KS19F009
1KS19C5088	1KS19EC0e3	1KS19CS094	1KS19EC089	1KS19ME033	1KS: \$60098
KS19CS089	1K\$19ECQ84	1K519C5096	1KS1950090	1KS19ME034	1K519EC097

VII CS 'B' SEC Total = 12 VII EC 'B' SEC Total = 18

VII ME 'A ' SEC Total = 06

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report	r rear and					
SL.NO	REGISTER NO.	COMPUTER NETWORKS (18EC71)	VLSI DESIGN (IREC72)	SATELLITE COMMUNICATIO N (IREC732)	CRYPTOGRAPHY (IREC744)	ENERGY AND ENVIRONMENT (18ME751)
1	1KS19EC001	A	Anife 1	AR	Aurit d	but 0
2	1KS19EC002	A	2-AB->	AB	- AB -	Aus
3	1KS19EC003	dikwan	Autworgay	dulmarye.	Althuranyay	dishumya
4	1KS19EC004	dichl	dirt	dish	diell	Aish
5	1KS19EC005	A	(AB)	AR	- AB -	Lul
6	1KS19EC006	Accept	AKARITE	Alumen	Alunit	Alvant
7	1KS19EC007	amoutha.	ansuther	amouther	Dworther.	Quesidher
8	1KS19EC008	Amulya	Amulya.	Amilya.	Anulya.	Anulya
9	1KS19EC009	A	Snothe	Color and and	-AB-	Anitha
10	1KS19EC010	Mislig	Arjalit	AB	eximiting	Minter
11	1KS19EC011	Adman	Achan	AB	-00-	Archain 4
12	1KS19EC012	Alle	The	Oh	Bolon	(All
13	1KS19EC014	A	_ AB ->	AB	Bhary	Brown
14	1KS19EC015	chairrage	chairtage	AB	-80-	chairtsay)
15	1KS19EC016	diada Post	chadalyl	chander Ry	chardalege	Chanda P.
16	1KS19EC017	A	LAB->	AB	-0-0-	11
17	1KS19EC018	A	duny	AB	Quul-	Lyn
18	1KS19EC019	A	(AB)	AB	- AU -	EAR -
DATE:		28/11/22	28/11/22	29 11 22	29/4/22	30/11/22
NO. OF	STUDENTS NT	10	13	08	11	17
NO. OF ABSEN	STUDENTS T	80	05	10	7	1
NAME (	OF INVICILATOR	Krishm Guli	Pravecr.A		t munnin	Beener
	URE OF	kgl	Der	IA	tr-realher	- Control

- Contract						
SLNO	REGISTER NO.	COMPUTER NETWORKS (18EC71)	The state of the s	SATELLITE COMMUNICATIO N (IREC 732)	CRYPTOGRAPHY (ISEC744)	ENERGY AND ENVIRONMENT (IBME751)
1	1KS19EC020	-40-	Ray	Nguy	-AR-	Nayer
2	1KS19EC021	21	52	510	-AR-	SIN_
3	1KS19EC022	que	guy	gay	- A18 -	garly
4	1KS19EC023	-Ag-	Duns	Dhaga	- AR-	Morin
5	1KS19EC024	VILL	Vacal	Treat	120	tast
6	IKS19EC025	Oidshir.	Oxhemi	Owlashing	Dishitaria	Dishallos
7	1KS19EC027	-49-	(AB)	-Ms-	- AB-	Traull
8	1KS19EC028	govertu.	youpth	appror	yayotu	youptu
9	1KS19EC029	- A-8-	Q: ddale		2:3hAe	C. delana
10	1KS19EC030	- AD-	600	GD-	8	100
11	1K\$19EC031	_AG-	Harshel	THE POST OF REAL PROPERTY.	Have L. B	Harsh B
12	1KS19EC032	BYLANUE	By	8 Y. Hur Willia	BY. HOrnie	B.Y. Handrin
DATE		28/11/22	28/11/29	29/4/22	29/4/22	30/11/22
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SLNO	REGISTER NO.	COMPUTER NETWORKS (18EC71)	VESI DESIGN (18EC72)	SATELLITE COMMUNICATIO N (IREC732)	CRYPTOGRAPHY (18EC744)	ENERGY AND ENVIRONMENT (18ME751)
1	1KS19EC033	QUILLE	and C.	Bour	Bote 1.	and C
2	IKS19EC035	Just	pri	Just	mal	Men
3	IKS19EC036	Jay 1	Toyatto	Joyth	Jayoth	Tout
4	1KS19EC037	Managera	Managua	Marrogres	Morropina	Morroma
5	1KS19EC038	←AB→	Keisth	AB-	~48 ->	- As -
6	1KS19EC039	Per	200	Oleo	- 18-	ace
7	1KS19EC040	8.9	4.4	the of	de de	de d
8	1KS19EC041	Bi	B	B:	-10-	15
9	1KS19EC042	lawshows	Scrathenfeld	(m.d.m.kuno) B	Distribution C	laster kina
10	1KS19EC043	TKHLA.H.	Mithe. H.	grahad.	greene #1	9K4ha.11
11	1KS19EC044	(H. Look)	H. YOUD	(H-Koki)	atoti	(M. toki)
12	1KS19EC045	Maul tak	May bour	Mount lands	Mand bush	Maulba
DATE		28/11/2012	28/11/22	29/11/22	29/11/22	3-111/20
NO. OF PRESE	STUDENTS NT	11	11	1.	00	2 1117
NO. OF ABSEN	STUDENTS T	01	00	01	03	01
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	TURE OF LATOR	plea	1AS	PA	Paoja S. Soga	the

	1101 491	_		SA STORY STATE THAT IS NOT THE		
SLNO REGISTER NO.		COMPUTER NETWORKS (18EC71)	VLSI DESIGN (IREC72)	SATELLITE COMMUNICATIO N (ISEC732)	CRYPTOGRAPHY (18EC744)	ENERGY AND ENVIRONMENT (18ME751)
1	1KS19EC046	mup	My	Mulip		Aloseet
2	1KS19EC047	Bestow	we	Redo	Rose do	generals
3	IKS19EC048	(AB)	Absent	Absent	As	Absent
4	1KS19EC049	mike	Unite.	Unik	Monika	Honika
5	1KS19EC050	(AB)	Absent	Absent	- AS-	Monshiph
6	1KS19EC051	عليق	Out	Jih	Quile	Buch
7	1KS19EC052	AB)-	Decut	Alalli 1	shilling.	Jedli A
8	1KS19EC053	Minget	Nicoz-k.	Numet	Niverger	Absent
9	1KS19EC054	Nithin D	Making	Nithin D	Mithingo	Mathin D
10	1KS19EC055	Pavant	parad	pa rang	Powart	Pavant
11	1KS19EC056	P. M. W	at Me	4.4.10	D. N. 19	0.M 60
12	1KS19EC057	Poelallo	700/04	Pooluge	-46-	Podosp
DATE:		28 11/22	28 11 22	29/11/22	24/11/12	30 11 22
NO. OF S	STUDENTS T	09	0-9	10	08	09
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NAME O	FINVIGILATOR	Salemi's	Contabanda	Boundalist to	Rangamethol	Maryapaya
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# K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109 Department of Electronics and Communication Engineering

Attendance of VII 'A & B' for Second Internal Test (2022-2023)

Koom	NO: 208				31	- 60
SLNO	REGISTER NO.	COMPUTER NETWORKS (18EC71)	VLSI DESIGN (IREC72)	SATELLITE COMMUNICATIO N (18EC732)	CRYPTOGRAPHY (18EC744)	ENERGY AND ENVIRONMENT (18ME751)
1	1KS19EC058	Brock A.	(Pondard 1)	Baded &	Booked A	Roded A
2	1KS19EC059	dely	duck	delit	dillo	dust
3	1KS19EC061	-An -	-43-	-42-	A AB >	PLE.
4	1KS19EC062	Proveers	Praveers	Proveers	Draveery	Praveery
5	1KS19EC063	AR-	-AB -	-17	Digity? -	(Hara
6	1KS19EC064	Popular.	Pad	95142 -	Pay	EValue.
7	1KS19EC065	-A0 -	1 1 1 1 1 0	= 10 -	Remark	1000
8	1KS19EC066	2 ight	TIME	sifi	Pint:	ent
9	1KS19EC067	(24.	(24	(D) -	(20).	CAR)
10	1KS19EC068	Re	De	08.	Q	D
11	1KS19EC069	Pohank R	Whan K.P.	Blank 2	€ AR >	Potonie
12	1KS19EC070	EK Rester	IX Rustich		SK Basteck	SK Bridest
13	1KS19EC071	-AB -	-48-	Laboration	- plantis	lalarita
14	1KS19EC073	Sahora-S	Salvara.S	Sahana-S	4-AR->	Sahara-S
15	1KS19EC074	Salanuals		Salizmua	Saiprivais	Salmlya
16	1KS19EC075	- AB	EAB-	= 48 ->	familles	400
17	1KS19EC076	Sulling	Caylong 7	Crossny	Carlleyd	Callad
18	1KS19EC077	8	en.	12	2	2
DATE:		28 11 2012	28/11/2020	29/11/2022	29/1/22	30/11/22
NO. OF PRESE	STUDENTS NT	13	14	14	5	15
NO. OF ABSEN	STUDENTS T	es	OL	OA	0.3	63
NAME	OF INVIGILATOR	RAJESHA	маматари	Pogja.S.	VD	Saletin S.
	TURE OF LATOR	Danin	Lorrella VI	afajo polu	190	SSTY

room	NO: 209	_				*
SL.NO	REGISTER NO.	COMPUTER NETWORKS (18EC71)	VESI DESIGN (BBEC72)	SATELLITE COMMUNICATIO N (IREC732)	CRYPTOGRAPHY (BEC744)	ENERGY AND ENVIRONMENT (IBME751)
1	1KS19EC078	Paritia	Banto	(auth	(an ha	Boutta
2	IKS19EC079	AR	AB	ABY	Bunt	- A8 -
3	1KS19EC081	Sheyon	Sugaro.	48	Queros.	-AB -
4	1KS19EC082	Thuyan B.	THE PERSON NAMED IN COLUMN 2 I	Shrajan B.	Thrujas 8.	ghrujar B
5	1KS19EC083	AB	geneyor	(AB)	Elvet.	-AX-
6	1KS19EC084	AB	A-B	ShayayVB	Treepes	Sheller
7	1KS19EC085	Spil.	18ml	Stoll,	XXX	that
8	IKS19EC086	SINCHAMAN	MINENN	SINDOWN	binchard.	THEFTON
9	1KS19EC087	U 13	Seini	Sim	Thirty	Sterin
10	1KS19EC088	AB	AB	AB	Nount	- Ars -
11	1KS19EC089	AB	spriamura		Surante,	Fairan K
12	1KS19EC090	Liber	Suhou	-(AB)	Leley	and
13	1KS19EC092	Smulle	Sumble	Sum Ple	Smulphe	- A18 -
14	1KS19EC093	(ushuitlas	Swhmitta)	Caspani the	queluities	gulmitho.
15	1KS19EC094	8-AB	1	0	0	8
16	1KS19EC095	Sentli	Swatti	Swethi	Sweethi	Swathi
17	1KS19EC096	Rute	Rutt	RUS	RUL	Rust
18	1KS19EC097	Charin	Ciaham.	ajamatri	injury	rejum Livi
DATE:		28/11/22		2911112	29/11/22	3./11/22
O. OF S	STUDENTS	11	15	13	16	13-
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AME O	FINVIGILATOR	Beenak	MKS	Christo	Donyapriya	Sayate
IGNATI NVIGIL	URE OF	1	@.	æ3	Dona	N

Ten Out	T. CO. T. ST. P.					
SL.NO	REGISTER NO.	COMPUTER NETWORKS (18EC71)	VLSI DESIGN (18EC72)	SATELLITE COMMUNICATIO N (18EC732)	CRYPTOGRAPHY (18EC744)	ENERGY AND ENVIRONMENT (18ME251)
1	1KS19EC098	< A8→	Thesettava		fuether	-AB-
2	1KS19EC099	Turket	Tilbe	Turket	ABSENT	what
3	1KS19EC100	Vaidhranik	Sistman	visting	ver making	withmany
4	1KS19EC101	Vandare	Vandona-G	Vandanal	Vandana &	Vandone
5	1KS19EC102	C. C. C.	Vandanas		Vandana-s	Vardana 3
6	1KS19EC103	Pareth Holad	Pareshinada	Vig restraction	2 manufactures	p. Lancherteing
7	1KS19EC104	< AB→	(A))-	As-	ABSENT	A Charles
8	1KS19EC105	Re	-(A)-	As-	OR (	A A
9	1KS19EC106	(lideal	aldial -	ashal-	(lishal	Oshal.
10	1KS19EC107	(AB)	Vishwanter	Villusoatey	Viduocoly	Villuscale y
11	1KS19EC108	← AB→	(B) -	Yank	Julia	Yan
12	1KS18EC089	Saha.n	Seeken	Sneha.n	ABSENT	Smoha.n
13	IKS20EC400	←AB>	MUME	-A0 -	ABSENT	MAE
14	IKS20EC401	Ranjana.P	Ranjano.P	_A0-	Ranjana.P	Ranjana.P
15	1KS20EC402		Shaller !	Godt.	Blook	Budle.
DATE:	5	28/11/22	21/11/22	29/11/4	29/11/22	30/11/22
NO. OF PRESEN	STUDENTS NT	10	12	10	11	12
NO. OF ABSENT	STUDENTS F	05	0.3	03	04	901.
NAME (	OF INVIGILATOR	Pravien A	H80	Mer	SANJOY DAS	Luradian
SIGNAT INVIGII	URE OF	Pol	Huy	M	1813	0



### K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109 SECOND SESSIONAL TEST QUESTION PAPER 2022 - 23 ODD SEMESTER

USN-

Semester: VII

Degree Branch

Course Title

Duration

: B.E

: ECE

: Energy and Environment

ř

Course Code: 18ME751 Date: 30/11/2022

Max Marks: 30

: 90 Minutes

Note: Answer ONE full question from each part.

K-Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Question	Marks	CO mapping	K- Level
	PART-A		Lance St. Renorder	
1(a)	Explain Environment, its scope and the need for public awareness	6	CO3	K2
(b)	Interpret how water cycle is utilized in the ecosystem.	6	CO3	K2
8	Illustrate grassland ecosystem. What are its types? How conservation of grassland can be made.	6	CO3	K2
	OR			
2(a)	Explain the food chain process. Write a short note on food web.	6	CO3	К2
(b)	Interpret the utilization of carbon in ecosystem	6	CO3	К2
(c)	Illustrate aquatic ecosystem and its types.	6	CO3	K2
	PART-B			
3(a)	Make use of the packed bed storage and storage wall technology to explain thermal energy storage.	6	CO2	КЗ
(b)	Summarize the effects of air pollution on living organisms	6	CO4	К2
4(a)	Identify the types of Thermal energy storage systems. Write short notes.	6	CO2	КЗ
			3.00	
(0)	Summarize the causes of water pollution and control measures to prevent water pollution	6	CO4	K2

Course in charge

Module Coordinator

HOD

Principal



## K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109 SECOND SESSIONAL TEST QUESTION PAPER 2022 - 23 ODD SEMESTER

USN		

Degree

: B.E

Branch

ECE

Course Title Duration : Energy and Environment

: 90 Minutes

Semester: VII

Course Code: 18ME751

Date: 30/11/22

Max Marks: 30

Note: Answer ONE full question from each part.

K-Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	(-Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K3-Ev Question	Marks	CO mapping	K- Level
1 101	PART-A			
1(a)	Outline the aspects of ecosystem and oxygen cycle.	6	CO3	K2
(b)	Explain forest ecosystem. What are its types? How conservation of forest can be made.	6	CO3	K2
(2)	Explain ecological pyramid and ecological succession.	6	CO3	K2
-0	OR OR			
2(a)	Outline the importance and scope of environmental studies.	6	CO3	K2
(b)	Explain the utilization of nitrogen in ecosystem.	6	CO3	K2
(c)	Explain the desert ecosystem. What are its types?	6	CO3	K2
595.	PART-B			
3(a)	Identify the sensible heat and latent heat storage methods	6	CO2	K3
(b)	Explain the effects of ozone depletion and air pollution on plants and materials.	6	CO4	K2
4(a)	Identify the benefits of energy storage systems, the 3 processes in general in energy storage systems, the advantages, and disadvantages of Thermal	6	COZ	КЗ
(b)	Energy Storage systems.  Explain the causes of air Pollution and control measures to prevent air pollution.	6	CO4	K2

Course in charge

Module Coordinator

HOD

Principal

Seleted

# K.S. INSTITUTE OF TECHNOLOGY

# VII SEM (2018 SCHEME) III SESSIONAL TEST TIME TABLE (2022-2023)

DATE: 13-12-2022

DATE	TIME	COMPUTER SCIENCE AND ENGINEERING	ELECTRONICS AND COMMUNICATION ENGG	ELECTRONICS AND TELECOMMUNICATIO N ENGG	MECHANICAL ENGG
22-12-2022	9.30 AM TO 11.00 AM	ARTHICIAL INTELLIGENCE AND MACHINE LEARNING (IRCS71)	COMPUTER NETWORKS (18EC71)	OPTICAL COMMUNICATION (18TE71)	CONTROL ENGINEERING (ISME71)
THURSDAY	2.00 PM TO 3.50 PM	BIG DATA ANALYTICS (18CS72)	VLSI DESIGN ( 18EC72).	WIRELESS COMMUNICATION (18TE72)	COMPUTER AIDED DESIGN & MANUFACTURING (1831E72)
23-12-2022 FRIDAY	9.30 AM TO 11.00 AM	USER INTERFACE DESIGN (IBCS734)	SATELLITE COMMUNICATION (18EC732)	SATELLITE COMMUNICATION (18EC732)	TOTAL QUALITY MANAGEMENT (18ME734)
	2.00 PM TO 3.30 PM	CRYPTOGRAPHY (18CS744)	CRYPTOGRAPHY (ISEC744)	CRYPTOGRAPHY (18EC744)	ADDITIVE MANUFACTURING (18ME741)
24-12-2022	9.30 AM TO 11.00 AM	ENERGY AND ENVIRONMENT (18ME751)	ENERGY AND ENVIRONMENT (18ME751)	ENERGY AND ENVIRONMENT (18ME751)	PYTHON APPLICATION PROGRAMMING (18CS752)
ATURDAY	2.00 PM TO 3.30 PM	ts are strictly informed to	2 <del></del>		

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BENGALURU - 550 109

# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE - 109

V & VII SEMESTER - II & III INTERNAL TEST INVIGILATION DUTY (2022-2023)

Date	Timings	OB 201	OB 203	OB 204	OB 205	OB 206	OB 207	OB 208	OB 209	OB 305	OB 306	OB 307 (ECE-SH)	NB 163 (1st Floor- SH)	NB 303 (3rd Floor- SH)	NB 403 (4th Floor-SH)
22-12-2022	9:30 am to	BK (CSE)	(CSE)	LK (CSE)	GR (CSE)	MBR (ME)	RN (ME)	RGL (ME)	PHS (CSE)	VD (ECE)	PS (ECE)	KBM (CSE)	SV (ECE)	BA (ECE)	BHA (ECE)
THURSDAY	2:00 pm to 3:30	SD (CSE)	RH (CSE)	KRS (B&H)	KMS (CSE)	AK (ME)	MBR. (ME)	LN (ME)	KP (ME)	NM (ME)	SST (ECE)	RM (AIML)	SS (AIML)	LKK (AIML)	AKG (ECE)
23-12-2022	9:36 am to 11:00 am	BK (CSE)	SD (CSE)	KG (CSE)	ST (CSE)	LN (ME)	NM (ME)	RN (ME)	AS (AIML)	PA (ECE)	SST (ECE)	RN (ECE)	BA (ECE)	SV (ECE)	KBM (ECE)
FRIDAY	2:00 pm to 3:30	PKN (CSE)	GR (CSE)	KBN (CSE)	KMS (CSE)	RN (ME)	RGL (ME)	PHS (CSE)	MBR (ME)	SS (AIML)	LKK (AIML)	AS (AIML)	RN (ECE)	BA (ECE)	SV (ECE)
24-12-2022 SATURDAY	9:30 am to 11:00 am	LK (CSE)	RH (CSE)	SG (CSE)	PR (CSE)	PA (ECE)	AK (ME)	VD (ECE)	KBM (ECE)	PS (ECE)	BHA (ECE)	MKS (CSE)	PKN (CSE)	KG (CSE)	ST (CSE)
	1.30 pm to 3.00 pm	AS (AIML)	RM (AIML)	55 (AIML)	LKK (AIML)	PS (ECE)	$\times$	$\times$	$\geq$	BHA (ECE)	AKG (ECE)	KP (ME)	><	$\times$	$>\!\!<$
	3.00 pm to 4.00 pm	RGL (ME)	PHS (CSE)	PA (ECE)	SST (ECE)	RNP (BS&H)	$\times$	$\times$	$\times$	MKS (CSE)	SG (CSE)	PR (CSE)	$>\!\!<$	$\times$	$>\!$

Lakshmi K.K.

Mrs. Beena k	BK	Mr. Krishna Gudi	KG
Mr. Kashal Kumar B N	KBN	Mr.Somasekhar T	ST
Mr. Laxmikuntha K	LK	Mrs. Pallavi K N	PKN
Mrs. Geetha R	GR	Mrs. Supreeths Gane	SG
Mr. Sanjoy Das	SD	Mrs. Pallovi R	PR
Mrs. Rashmi H	RH	Mr. Manoj Kumar S	MKS
Mrs. Kavva M S	KMS	Mrs. Radhika N P	RNP
Mrs. Shylaja K.R.	KRS	Mr. Rajesh G L	RGL
Mr. Manjunath B.R.	MBR	Mr. Prashanth H S	PHS
Amulyashree S	AS	Sahana Sharma	38

Mr. Anil Kumar A	AK	Dr.Rekha.N	RN:
Dr. L Nirmala	LN	Ms.Sangeetha.V	SV
Mr. Prasad K	KP	Ms.Barghavi.A	BA
Mr. Ranganath N	RN	Ms.Bhanumathi	BHA
Mr. Nagabhushana M	NM.	Ms.Kavya.B.M	KBM
Mr.Praveen.A	PA.	Ms. Vishalini Divakar	VD
Mr.Saleem.S.Tevaramani	SST		
Mr.Ashwini Kumar	AKG	1	
Record Marria	DAT	7	

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NOTE: Issue and Collection of Blue Books at Design Lah, 3rd Floor NB, Mechanical Engg. Block

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K.S. INSTITUTE OF TECHNOLOGY BENGALURU - 560 109.

# K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109

Department of Electronics and Communication Engineering

Attendance of VII 'A & B' for THIRD Internal Test (2022-2023)

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# K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109 Department of Electronics and Communication Engineering Attendance of VII 'B' for THIRD Internal Test (2022-2023)

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# K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109 Department of Electronics and Telecommunication Engineering Attendance of VII Sem for THIRD Internal Test (2022-2023)

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## K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109 THIRD SESSIONAL TEST QUESTION PAPER 2022 - 23 ODD SEMESTER

USN			

Degree Branch : B.E

. D.E

: ECE : Energy and Environment

Course Title : Duration :

: 90 Minutes

Semester: VII

Course Code: 18ME751

Date: 24/12/22

Max Marks: 30

Note: Answer ONE full question from each part.

K-Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Question	Marks	CO mapping	K- Level
	PART-A			
1(a)	Outline the aspects of ozone layer depletion.	6	CO5	K2
(b)	Explain the types, causes, and objectives of wasteland reclamation.	6	CO5	K2
(c)	Explain water (Prevention and Control of Pollution) Act.	6	CO5	K2
	OR			
2(a)	Outline the Environment protection Act and Environment Impact Assessment (EIA).	6	CO5	K2
(ь)	Explain any two case studies related to Nuclear Hazards.	6	COS	K2
(c)	Explain forest conservation (Prevention and Control of Pollution) Act.	6	CO5	K2
	PART-B		= -	
3(a)	Identify the causes and effects of Noise Pollution. Mention control measures.	6	CO4	K2
(b)	Explain any two case studies related to pollution of environment.	6	CO4	K2
4(a)	Identify the environmental problems and health risks caused by	6	CO4	K2
9000	hazardous wastes.			
(p)	Explain the role of an individual in prevention of pollution	6	CO4	K2

Course in charge

Module Coordinator

HOD

Principal



## K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109 THIRD SESSIONAL TEST QUESTION PAPER 2022 - 23 ODD SEMESTER

Degree Branch

: B.E.

: ECE Course Title

: Energy and Environment

Duration

: 90 Minutes

USN

Semester: VII

Course Code: 18ME751

Date: 24/12/22

Max Marks: 30

Note: Answer ONE full question from each part.

K-Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Question Question	Marks	CO mapping	K- Level
46.37	PART-A			
1(a)	Outline the aspects of acid rain and its effects.	6	CO5	K2
(b)	Explain the wasteland reclamation methods.	6	COS	К2
8	Explain Air (Prevention and Control of Pollution) Act.	6	COS	K2
26.51	OR			
2(a)	Outline the concept of Consumerism and waste products. Mention control measures explaining the roles of an individual in protecting environment.	6	C05	K2
(b)	Explain any two case studies related to pollution of environment.	6	C05	K2
(c)	Explain wildlife (Prevention and Control of Pollution) Act.	6	COS	K2
	PART-B			
3(a)	Identify the causes and effects of Thermal Pollution. Mention control measures.	6	C04	K2
(b)	Explain Characteristics of hazardous wastes.	6	CO4	K2
4(a)	Identify the causes and effects of Marine Pollution. Mention control		-	
0	measures.	6	C04	K2
(a)	Explain solid waste management techniques.	6	C04	K2

Course in charge

Module Coordinator







# ವಿಶ್ವೇಶ್ವರಯ್ಯತಾಂತ್ರಿಕವಿಶ್ವವಿದ್ಯಾಲಯ

ವಿಟಿಯುವಧಿನಿಯಮೂ ೯೯೪' ರಲದಿಯಲ್ಲಿಕರ್ನಾಲಕಸರ್ಕಾರದಿಂದಸ್ಥಾಪಿಕವಾದರಾಜ್ಯ ವಶ್ಯವಿದ್ಯಾಲಯ

## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

State University of Government of Kacantaka Established as per the VTU Act, 1994"JanuaSangana" Belagavi-590018, Kacantaka, India

Prof. B. E. Rangaswamy, Ph.D.

REGISTRAR

Phone: (0831) 2498100 Fax: (0831) 2405467

DAT

REF: VTU/BGM/GC/2023/ 7/2

#### Revised-NOTIFICATION

Subject:

Tentative Academic Calendar of II Semester B.E./B.Tech., B.Arch and B.Plan and IV semester B.E./B.Tech., programs of University

regarding...

Reference: Hon'ble Vice-Chancellor's approval dated: 9 MAY 2023
The computer-Aided Engineering Drawing (BCEDK103) examinations of II semester B.E./B.Tech., programs are scheduled between 15.05.2023 to 24.05.2023. A revised Academic Calendar (Tentative) of II Semester B.E./B.Tech., B.Arch and B.Plan and IV semester B.E./B.Tech., programs of the University for the academic year 2022-23 are hereby notified as mentioned below;

	ester B.E./B.Tech., Pro II Semester B.E./B.Tech,	II Semester B. Arch, B. Plan	IV Semester
	(2022 scheme)	(2021 scheme)	B.E./ B.Tech (2021 scheme)
Commencement of the semester	25.05.2023	17.05.2023	17.05.2023
Internship	*****		17.05.2023 To 03.06.2023
Commencement of the Classes	25.05.2023	17.05.2023	05.06.2023
Last Working day of the Semester	09.09.2023	31.08.2023	16.09.2023
Practical Examination/Viva Examination	11.09.2023 To 20.09.2023	01.09.2023 To 08.09.2023	19.09.2023 To 30.09.2023
Theory Examinations	21.09.2023 To 21.10.2023	11.09.2023 To 27.09.2023	03.10.2023 To 20.10.2023
Commencement of next Semester	25.10.2023	09.10.2023	25.10.2023



#### Please Note:

- The academic sessions for EVEN semesters should commence on the date mentioned above. The induction program shall be conducted for 10 days for 2nd-semester students. Scheduling the induction program's activities during the afternoon session in the 1st week is advised, the remaining sessions of induction programs shall be planned on Saturdays. The colleges must email a brief report to sbhalbhavi@vtu.ac.in after completing the Induction program.
- The college may hold extra classes on Saturdays and Sundays to complete academic activities within the specified timeframe.
- The faculty/staff shall be available to undertake any work assigned by the university.
- University Examination Calendars will be published by the Registrar (Evaluation) from time to time.
- The Academic Calendar may be modified as MHRD/UGC/AICTE/state governments issue guidelines/directives in the future.
- Academic calendars are also applicable to autonomous colleges. If any changes are to be made by Autonomous colleges in the academic terms and examination schedule, they could do so with the approval of the university
- If any clarification/correction/suggestions, please email <u>-sbhalbhavi@vtu.ac.in</u>

The principals of engineering colleges under the ambit of the University, are hereby informed to bring the academic calendar to the notice of all concerned. The Chairpersons of the PG department of the University where UG programs are offered are hereby informed to bring the academic calendar to the notice of the all concerned

The Directors of Schools of Architecture and Planning under the ambit of the university are hereby informed to bring the academic calendar to the notice of all concerned.

Sd/-

REGISTRAR

To,

 The principal of all engineering colleges, Directors of Schools of Architecture and Planning, under the ambit of VTD Belogavi. The Chairperson of the PG Department of the university.

#### Copy to.

- To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
- The Registrar (Evaluation), VTU Belagavi for information.
- The Regional Directors (1/c) of all the regional offices of VTU for circulation.
- The Director I/c. ITI SMU, VTU Belagavi for information and to make arrangements to upload Academic Calendar on the VTU web portal.
- 5. The Director of Physical Education, VTU Belagavi for Information
- The Director of Central Placement Officer VTU Belagavi for information
- All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi

REGISTRAR 7.





# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ



್ ವಿ ಟಿ ಯು ಅಧಿನೆಯದು ೧೯೯೪" ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿಕವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ)

## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

(State University of Government of Karnataka Established as per the VTU Act, 1994) "JnanaSangama" Belagavi-590018, Kamataka, India

Prof. Dr. B. E. Rangaswamy, Ph.D. REGISTRAR

Phone: (0831) 2498100

: (0831) 2405467

REF: VTU/BGM/ACA/2022-23/ 7/19

#### NOTIFICATION

Subject:

Tentative Academic Calendar of II and IV sem B.Sc (Hon), VI sem

B.E./B.Tech., B.Plan. B.Arch programs of University regarding...

Reference:

Hon'ble Vice-Chancellor's approval dated: 01.03.2023

The tentative academic calendar concerned to II and IV sem B.Sc (Hon), VI sem B.E./B.Tech., B.Plan, B.Arch., programs of University for academic year 2022-23 are hereby notified as mentioned in Annexure-1:

The Principals/ Directors of all Engineering Colleges/Schools of Architecture, under the ambit of University are hereby informed to bring the academic calendar to the notice of all concerned.

Sd/-

#### REGISTRAR

#### To,

- 1. The Principals all Engineering Colleges under the ambit of University
- The Director of all school of Architecture under the ambit of University 2.
- 3. The chairperson/Program coordinator of MBA(IEV) program VTU Belagavi

#### Copy to.

- 1. To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
- The Registrar (Evaluation), VTU Belagavi for information. 2.
- 3. The special Officer QPDS section VTU Belagavi
- The Regional Directors (I/c) of all the regional offices of VTU for circulation. 4.
- The Director I/c. ITI SMU, VTU Belagavi for information and to make arrangements to upload 5. Academic Calendar on the VTU web portal.
- 6. The Director of Physical Education, VTU Belagavi for information
- 7. The Director, Central Placement Cell, VTU Belagavi
- All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi

REGISTRAR

Annexure-I
Tentative Academic Calendar for academic year 2022-23

	II sem IV sem B.Sc.(Hon) B.Sc (Hon)		VI sem B.E./B.Tech	VI sem B.Plan	#VI sem B.Arch.
Commencement of semester Classes	06.03.2023	20.03.2023	20.03.2023	20.03.2023	20.03.2023
Last Working day of the Semester	30.06.2023	10.07.2023	10.07.2023	10.07.2023	10.07.2023
Practical Examination/Viva Examination	03.07.2023 To 07.07.2023	11.07.2023 To 15.07.2023	11.07.2023 To 21.07.2023	11.07.2023 To 21.07.2023	11.07.2023 To 21.07.2023
Theory Examinations	10.07.2023 To 25.07.2023	17.07.2023 To 31.07.2023	24.07.2023 To 12.08.2023	24.07.2023 To 12.08.2023	24.07.2023 To 12.08.2023
Internship	****	*****	04 weeks 09.09.2023	06 weeks 16.09.2023	
Commencement of next Semester	01.08.2023	01.08.2023	11.09.2023	19.09.2023	16.08.2023

# Academic calendar already notified vide VTU/BGM/ACA/2022-23/6889, dated 15:02:2023

#### Please Note:

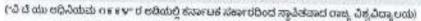
- · The academic sessions should commence on the date mentioned above.
- If required, the college can also plan to have extra classes on Saturday(1\* and 3\*\*) and Sundays full day to complete academic activities within the duration mentioned.
- · The faculty/staff shall be available to undertake any work assigned by the university.
- Notification regarding the Calendar of Events relating to the conduct of University Examinations will be issued by the Registrar (Evaluation) from time to time.
- Academic Calendar may be modified based on guidelines/directions issued in the future by MHRD/UGC/AICTE/State Government.
- Academic Calendar is also applicable for Autonomous Colleges. If any changes are to be effected by Autonomous Colleges in the
  academic terms and examination schedule, they could do so with the approval of the University.
- If any clarification/correction, please email to shhalbhavi@vtu.ac.in

REGISTRAR





# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ





### VISVESVARAYA TECHNOLOGICAL UNIVERSITY

(State University of Government of Kamataka Established as per the VTU Act, 1994) "JinanaSangama" Belagavi-590018, Kamataka, India

Prof. Dr. B. E. Rangaswamy, Ph.D. REGISTRAR

REF: VTU/BGM/ACA/2022-23/ 6566

Phone: (0831) 2498100 Fax : (0831) 2405467

DATE: = 3 FEB 2023

#### NOTIFICATION

Subject:

Tentative Academic Calendar of VIII semesters of B.E./ B.Tech.,

B.Arch., B. Plan programs of University regarding...

Reference:

Hon'ble Vice-Chancellor's approval dated: 03.02.2023

The tentative academic calendar concerned to VIII semesters of B.E./B.Tech.,

B. Arch., and B. Plan programs of University for academic year 2022-23 are hereby notified as mentioned below;

(Tentative) Academic C	B.E./B.Tech.	B.Arch	B.Plan	
Commencement of 8th semester Classes	13.02.2023	13.02.2023	13.02.2023	
Last Working day of 8th Semester	13.05.2023	13.05,2023	13.05.2023	
Practical Examination/Viva Examination	05.06.2023 To 13.06.2023	16.05.2023 To 26.05.2023	****	
Theory Examinations	16.05.2023 To 01.06.2023	29.05.2023 To 10.06.2023	16.05.2023 To 01.06.2023	
Commencement of next Semester				

#### Please Note:

- The academic sessions for VIII semester should commence on the date mentioned above.
- The Institute needs to function for six days a week with Saturday being half working day. #if required, the college can also plan to have extra classes on Saturday afternoons and Sundays full day to complete academic activities within the duration mentioned. This will facilitate the final year students for appearing competitive examination for their career and also helps in seeking admission abroad.

- The faculty/staff shall be available to undertake any work assigned by the university.
- Notification regarding the Calendar of Events relating to the conduct of University
   Examinations will be issued by the Registrar (Evaluation) from time to time.
- Academic Calendar may be modified based on guidelines/directions issued in the future by MHRD/UGC/AICTE/State Government.
- Academic Calendar is also applicable for Autonomous Colleges. If any changes are
  to be effected by Autonomous Colleges in the academic terms and examination
  schedule, they could do so with the approval of the University.
- If any clarification/correction, please email to sbhvtuso@yahoo.com

The Principals/ Directors of Schools of Architecture, under the ambit of University are hereby informed to bring the academic calendar to the notice of all concerned.

Sd/-

#### REGISTRAR

To,

- The Principals / Directors, Schools of Architecture under the ambit of VTU Belagavi.
   Copy to.
  - To the Hon'ble Vice-Chancellor through the secretary to VC. VTU Belagavi for information
  - The Registrar (Evaluation), VTU Belagavi for information.
  - The Regional Directors (1/c) of all the regional offices of VTU for circulation.
  - The Director I/c. ITI SMU, VTU Belagavi for information and to make arrangements to upload Academic Calendar on the VTU web portal.
  - 5. The Director of Physical Education, VTU Belagavi for information
  - All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi

REGISTRAR

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K. S. INSTITUTE OF TECHNOLOGY, BENGALURU-560109

TENTATIVE CALENDAR OF EVENTS: IV EVEN SEMESTER (2022-2023) SESSION: MAY TO SEP 2023

Week.	Month	Ionth May The West The Set							Activities	
Nn.	FOUNDS.	Men	Tue	Wed	Thu	Fri	Sat	10000		
1	MAY			17*	18	19	20DH	3	17* - Commencement of IV Sem	
2	MAY	22	23	24	25	26	27	6	27-Tuesday Time Table	
3	MAYJUN	29	30	31	1	2	3DH	5		
4	JUN	5	6	7	8	9	10	6	10-Wednesday Time Table	
5	JUN	12	13	14	15	16 TA	17DH	5		
6	JUN	19 T1	20 T1	21 T1	22	23	24	6	24-Tuesday Time Table	
7	JUNGULY	26	27	28 BV	29H	30 ° FFBI	IDH	4	29 - Bakrid 30 - First Faculty Feed Back	
8	JULY	3 LT1	4 LT1	5 LT1	6 ASD	7	8	6	8-Wednesday Time Table	
9	JULY	10	11	12	13	14	(5DH	5		
10	JULY	17	18	19	20	21	22	6	22- Tuesday Time Table	
11	JULY	24	25	26	27	28 TA	20H	5	29- Moharam	
12	JULY/AUG	31 T2	1 T2	2 T2	3	4	5	6	5- Monday Time Table	
13	AUG	7	8	9 BV	10	11 ASD	12 DH	5		
14	AUG	14	15 H	16	17 * FFB2	18	19	5	15 - Independence Duy 17 - Sepond Faculty Feed Back 19- Menday Time Table	
15	AUG	21	22	23	24	25	26 DH	5		
16	AUG/SEP	28	29	30	31	1	2	6	2- Wednesday	
17	SEP	4	5.	6 T3	7 T3	8 T3	9 DH	5		
18	SEP	IILT2	12LT2	13LT2	14	15	16*	6	16- Thursday Time Table 16* - Last Working day	

Total Number of working days ( Excluding holidays and Tests)-80

	Pour ivu			
11	Holiday			
BV	Blue Book Verification			
T1,T2,T3	Testa 1,2,3			
ASD	Attendance & Sessional Display			
DH	Declared Holiday			
LTI, 2	Lab Test 1,2			
TA	Test attendance			

Monday	15
Tuesday	15
Wednesday	16
Thursday	17
Friday	17
Total	80

PRINCIPAL : K.S. INSTITUTE OF TECHNOLOGY BENGALURU - 560 109.



# K. S. INSTITUTE OF TECHNOLOGY, BENGALURU-560109 REVISED TENTATIVE CALENDAR OF EVENTS: VI EVEN SEMESTER (2022-2023)

SESSION: MARCH TO JULY 2023

Week	Month				iy			Days	Activities
No.	Month	Mon	Tue	Wed	Thu	Fri	Sat	Days	The state of the s
10	MAR	20*	21	22 Н	23	24	25	5	20* - Commencement of VI Sen 22- Ugadi 25-Monday Time Table
2	MAR/APR	27	28	29	30	31	1	6	1-Monday Time Table
3	APR	ЗН	4	5	6	7H	8DH	3	3-Mahaveera Jayanthi 7-Good Friday
+	APR	10	11	12	13	14H	15 TA	5	14-Dr. B R Ambedkar Jayanthi 15-Monday Time Table
5	APR	17T1	18T1	19T1	20	21	22DH	5	THE THE
6	APR	24BV	25* FFB1	26 ASD	27	28	29	6	25* - First Faculty Feed Back 29-Friday Time Table
-7	MAY	1Н	2	3	4	5	6	5	1-May Day 6 - Wednesday Time Table
5	MAY	8	9	10	11	12	13	6	13-Friday Time Table
9	MAY	15	16	17	18	19	20DH	5	
10	MAY	22 LT1	23 LT1	24 LT1	25	26	27	6	27-Tuesday Time Table
11	MAY/JUN	29	30	31	1	2 TA	3DH	5	
12	JUN	5T2	6T2	7Т2	8	9	10	6	6 - Second Faculty Feed Back 10-Wednesday Time Table
13	JUN	12 BV	13* FFB2	14 ASD	15	16	17DH	5	
14	JUN	19	20	21	22	23	24	6	24-Tuesday Time Table
15	JUNGULY	26	27	28	29H	30 LT2	idh	4	29 - Bakrid
16	JULY	3 LT2	4 LT2	5 LT2	6 T3	7 T3	8 T3	6	8-Wednesday Time Table
17	JULY	10*		1.5				-1	10* - Last Working day

Total Number of working days ( Excluding holidays and Tests)=70

	TOTAL POINT
H	Holiday
BV	Blue Book Verification
T1,T2,T3	Tests 1,2,3
ASD	Attendance & Sessional Display
DH	Declared Holiday
LTI	Lab Test 1
TA	Test attendance

Monday	13		
Tuesday	13		
Wednesday	13		
Thursday	15		
Friday	16		
Total	70		

PRINCIPAL K.S. INSTITUTE OF TECHNOLOGY BENGALURU - 560 109.



# K. S. INSTITUTE OF TECHNOLOGY, BENGALURU-560109

TENTATIVE CALENDAR OF EVENTS: VIII EVEN SEMESTER (2022-2023) SESSION: FEB 2023 - MAY 2023

Month	1404			200000000000000000000000000000000000000	Days	Activities		
	Mon	Tuc	Wed	Thu	Fri	Sat		
1 FEB		14	15	16	17	18:D)1	5	18- Maha Shivaratri
FEB	20	21	22	23	24	25	6	25- Wednesday Time Table
FERMAR	27	28	1	2 BV	3 ASD	4 DH	5	
MAR	6	7	8	9	10	HTA	6	11 - Tuesday Time Table
MAR	13T1	14T1	15	16	17	18 DH	5	
MAR	20BV	21* FFB1	22 H	23ASD	24	25	5	21* - First Faculty Feed Back 22- Ugadi 25-Monday Time Table
MAR/APR	27	28	29	30	31	1	6	1-Monday Time Table
APR	3H	4	5	6	7H	8DH	3	3-Mahaveem Jayanthi 7-Good Friday 8-Friday Time Table
APR	10	11	12	13TA	14H	15		14-Dr. B R Ambedkar Jayanthi 15-Monday Time Table
APR	1712	18T2	19	20	21	22DH	5	
APR	24BV	25* FFB2	26ASD	27	28	29		25* - Second Faculty Feed Back 29-Friday Time Table
MAY	IH	2	3	4	5	6E)H	4	I-May Day
MAY	8	9	10	1173	1213	13*	6	13-Friday Time Table 13* - Last Working day
	FEB  FERMAR  MAR  MAR  MAR  MARAPR  APR  APR  A	FEB 20  FERMAR 27  MAR 6  MAR 13T1  MAR 20BV  MAR/APR 27  APR 3H  APR 10  APR 17T2  APR 24BV  MAY 1H	FEB         20         21           FERMAR         27         28           MAR         6         7           MAR         13T1         14T1           MAR         20BV         21* FFB1           MAR/APR         27         28           APR         3H         4           APR         10         11           APR         17T2         18T2           APR         24BV         25* FFB2           MAY         1H         2	FEB         20         21         22           FERMAR         27         28         1           MAR         6         7         8           MAR         13T1         14T1         15           MAR         20BV         21* FFB1         22:11           MAR/APR         27         28         29           APR         3H         4         5           APR         10         11         12           APR         17T2         18T2         19           APR         24BV         25* FFB2         26ASD           MAY         1H         2         3	FEB         20         21         22         23           FERMAR         27         28         1         2 BV           MAR         6         7         8         9           MAR         13T1         14T1         15         16           MAR         20BV         21* FFB1         22 H         23 ASD           MAR/APR         27         28         29         30           APR         3H         4         5         6           APR         10         11         12         13TA           APR         17T2         18T2         19         20           APR         24BV         25* FB2         26ASD         27           MAY         1H         2         3         4           MAY         8         9         10         11T3	FEB         20         21         22         23         24           FERMAR         27         28         1         2 BV         3 ASD           MAR         6         7         8         9         10           MAR         13T1         14T1         15         16         17           MAR         20BV         21* FFB1         22 H         23ASD         24           MARAPR         27         28         29         30         31           APR         3H         4         5         6         7H           APR         10         11         12         13TA         14H           APR         17T2         18T2         19         20         21           APR         24BV         25* FFB2         26ASD         27         28           MAY         1H         2         3         4         5           MAY         8         9         10         11T3         12T3	FEB         20         21         22         23         24         25           FERMAR         27         28         I         2 BV         3 ASD         4 DH           MAR         6         7         8         9         10         11TA           MAR         13T1         14T1         15         16         17         18 DH           MAR         20BV         21* FFB1         22 H         23ASD         24         25           MAR/APR         27         28         29         30         31         1           APR         3H         4         5         6         7H         8DH           APR         10         11         12         13TA         14H         15           APR         17T2         18T2         19         20         21         22DH           APR         24BV         FFB2         26ASD         27         28         29           MAY         1H         2         3         4         5         6DH           MAY         8         9         10         11T3         12T3         13*	FEB         20         21         22         23         24         25         6           FERMAR         27         28         1         2 BV         3 ASD         4 DH         5           MAR         6         7         8         9         10         11TA         6           MAR         13T1         14T1         15         16         17         18 DH         5           MAR         20BV         21* FFB1         22 H         23 ASD         24         25         5           MAR/APR         27         28         29         30         31         1         6           APR         3H         4         5         6         7H         8 DH         3           APR         10         11         12         13TA         14H         15         5           APR         17T2         18T2         19         20         21         22DH         5           APR         24BV         25* FFB2         26ASD         27         28         29         6           MAY         1H         2         3         4         5         6DH         4

Total Number of working days ( Excluding holidays and Tests)=61

H	Holiday		
BV	Blue Book		
T1,T2,T3	Tests 1,2,3		
ASD	Attendance & Sessional Display		
DH	Declared Holiday		
LTI	Lab Test 1		
TA	Test attendance		

Total	61
Friday	12
Thursday	12
Wednesday	13
Tuesday	12
Monday	12

K.S. INSTITUTE OF TECHNOLOGY BENGALURU - 560 109.



### K. S INSTITUTE OF TECHNOLOGY, BENGALURU-560109

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING TENTATIVE CALENDAR OF EVENTS: VIII EVEN SEMESTER (2022-2023)

SESSION: FEB 2023 - MAY 2023

Week	Month			D				Days	Activities	Department Activities
No.	Aspette	Mon	Tue	Wed	Thu	Fet -	Sat	andys.	ALL THAS	Tentitive Dates
1	FEB	13	14	15	16	17	den	5	LE-Maha Shisaratri	
2	FER	20	21	22	23	24	25	-	25- Wednesday Time Tuble	
3	FEBINI All	29	28	1	2 HV	JASD	PH-	3		
4	MAR	ð	,	8	9	30	H TA	6	11 - Euchday Time Table	8th March Womens Day Under IEEE
ş.	MAR	im	mi	15	16	17	HEER	5		16th Murch Moovational Talk Under IEEE WIE, ASH
6	MAR	20 BY	51* FEBI	22 11	23 ASD	24	25	3	21* - First Faculty Feed Back 22- Ugadi 25-Monday Time Table	
7	MAR/ APR	21	28	20	30	31	1	6	1-Monday Time Table	27th March to 1st April : Six Doys FDP on Phython and As Applications Under (HEE, ISTE, IETE, HE
8	APR	in T	1	j	6	H	in .	-1	3-bitakovegra Jnyamin 3-Govd Friday 8-Friday Time Table	6th April Hamanitarise activity Under IEEE
y	APR	10.	11	12	TA	H	15	775	14-Dr. II R Ambedke Jayanthi 15-Monday Time Tuble	
10	APR	17 T2	15 T2	19	20	21	72 77H	3		
u	APR	24 RV	25* 69182	26 ASD	27	28	29	0	25* - Second Faculty Feed Back 29-Pittley Time Table	28th April &25th April : Paper Presentation Under 10EE, 18TE, 1ETE, 1ET
12	MAY	The same of	2	3	4	3	THE STATE OF THE S	4	1-May Day	3rd, 4th & 5th May Student Development Programme On Python Coding
13	MAY	8	0	10	11	12 13	111*	6	13-Friday Time Table 13* - Last Wurking day	

Total Number of working days ( Excluding holidays and Tests)=61

HIN.	4 OLD 190
H	Holiday
uv.	Blue Book Venflorion
T1,32, T3	Tests 1,2,3
ASD	Attendance & Sessional Display
DH	Declared Holiday
LT	Lab Test I
TA.	Test ane odnoce

I working days (	excluding holidays and
Monday	12
Teinday	12
Weilseiday	13
Thursday	12
Feiday	12
Total	61

Total No of Working Bays: 67

HEAD OF THE DEPARTMENT Dept. of Electronics & Communication Engg K.S. Institute of Technology Bengaluru - 560 109

PRINCIPAL K.S. INSTITUTE OF TECHNOLOGY BENGALURU - 560 109.



### K. S INSTITUTE OF TECHNOLOGY, BENGALURU-560109

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING TENTATIVE CALENDAR OF EVENTS: VI EVEN SEMESTER (2022-2023)

SESSION: MARCH 2023 - JULY 2023

Week	Month			Di	y		18020	Days	Days Activities	Department Activities
No.	anunch (	Mon	Tue	Wed	Thu	Fri	Sat	Lays	ACMITICA	Tentative Dates
1	MAR	30*	31	22.11	11	24	25	5	20" - Commercemen of Vi Sen 22- Ugadi 25-Monday Time Table	
2	MAR/ APR	27	26	29	30	31	-1,	.6	I-Menday Time Table	27th March to Est April: Six Days FDP on Phythen and its Applications Under IGEE, ISTE, IGTE, IET
3	APR	311	+	4	9	701	4000	ě	3-Maharsera Jayanthi 7-Good Friday	66 April Humanitarian activity Under IEEE
4	APR	10	311	:12	13	1411	15 TA	:3	14-Dr. B R Ambedkar Joyannii 15-Monday Vime Tuble	
ĸ	APR	1771	IXTI	1911	20	21	1210H	3		
0	лик	24BV	25* FF811	26 ASD	27	28	29	6	25* - First Faculty Feed Back 29-Priday Time Table	28th April & 20th April - Paper Presentation Under JEDE, ISTE, DETE, IEI
7	мау	m	1		4	**	opif	4	I-delay Day	3rd, 4th & 5th May Student Development Programme On Python Coding
k.	MAY	. 2	0	10	11	12	13	6	13-Friday Time Table	1 E-31 V
9	MAY	15	16	17	18	19	20 \ Dif	3		
10	MAY	22 LTI	23 LT1	24 LT1	25	20:1A	27	0	27-Tuesday Time Table	27th May Murathan Under IEEE, ISTE, IETE, IEI
11	MAY/J UN	2012	30 Y2	31 12	1	2	nar	4		Int June Mini Project Under IEEE, ISTE, IETE, IEE 2nd June SPS DAY under IEEE
12	JUN	5 BV	6 * FF02	7 ASD	-8	9	10	6	6 - Second Faculty Feed Back 10-Wednesday Tires Table	10th June Technical Talk Under REEK, INTE
13	JUN	12	13	14	15	16	Coll	3		
14	aun	19	20	21	22	23	24	6	24-Tuesday Time Table	
15.	JUN/ JULY	26 1,72	77 1.72	28 LT3	2911	30	IDIL	.5	29 - Bakind	
16	лих	3 13	4 13	513	6	7	8	6	B-Wednesday Time Table	
17	JULY	10-						19	10" - Last Working day	

sts)=69 mber o

11	Hotiday			
BV	Blue Book Verification			
11,12,13	Tests 1,2,3			
ASD	Attendance & Sessional Display			
DH	Declared Holiday			
LT	Lab Test			
TA	Test attendance			

I working days ( E	seluding holidays and Ta
Monday	13
Teesday	13
Wednesday	12
Thursday	15
Friday	16
Total	69

HEAD OF THE DEPARTMENT Dept. of Electronics & Communication Engg K.S. Institute of Technology Bengaluru - 560 109

PRINCIPAL K.S. INSTITUTE OF TECHNOLOGY BENGALURU - 560 109.



## K. S INSTITUTE OF TECHNOLOGY, BENGALURU-560109

## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

TENTATIVE CALENDAR OF EVENTS: IV EVEN SEMESTER (2022-2023)

SESSION: MAY TO SEP 2023

W-eek.	Month			D	y			Days	Activities	Department Activities
No.	- Total	Mon	Tue	Wed	Thu	Fri	Sat	Days	- Akon (III)	Tentative Dates
1:	MAY			17*	18	19	20	3	17" - Commencement of IV Sem	
2	MAY	22	23	24	25	26	.27	6	27-Tuesday Time Table	27th May Marathon Under IEEE, ISTE, IETE, IEI
3	MAY/ JUN	29	30	31	3	2	*	5		Ist June: Mini Project Under IEEE, ISTE, IETE, IEI 2nd June SPS DAY under IEEE
4	JUN	5	6	7	8	9	10	6	10-Wednesday Time Table	10th June Technical Talk Under IEEE, ISTE
5	JUN	12	13	34.	15	16 TA		5		
6	JUN	19 T1	20 T t	21 T1	22	23	24	- 6	24-Tuesday Time Table	
7	JUN/J ULY	26	27	28 BV	24 11	30 °		4	29 - Bakrid 30 - First Faculty Food Back	
8	JULY	3 L/T1	4 LT1	S LT1	6 ASD	7	8	6	8-Wednesday Time Table	
9	JULY	10	n	12	13-	14	15 DII	5		
10	JULY	17	18	19	20	21	22	160	22- Tuesday Time Table	22nd July Technical Talk
n	JULY	24	25	26	27	28 TA	20) (15)	. 5	29- Moharam	
12	JULY/	31 T2	1 T2	1 12	3	4	5	6	5- Monday Time Table	3ed August to 5th August Placement Training
В	AUG	7	8	9 BV	10	11 ASD	125 1711	5		
14	AUG	14:	THE STATE OF THE S	16	17 * FFB2	18	19	5	15 - Independence Day 17 - Second Faculty Feed Back 19- Monday Time Table	19th August Activities under NSS, Sports & Yog
15	AUG	21	22	23	24	25	1000	35		
16	AUG/ SEP	28	29	30	34	1	2	6	2- Wednesday	2nd September Mini Project Exhibition & Poster Presentation
17	SEP	4	5	6 T3	7 73	8 Т3	7111	5		
18	SEP	IILT 2	121.T 2	13LT 2	14	15	16*	6	16- Thursday Time Table 16* - Last Working day	

Total Numb ests)=80

н	Holiday
BV	Blue Book Verification
T1,T2, T3	Tests 1,2, 3
ASD	Attendance & Sessional Display
DH	Declared Holiday
LT	Lab Test 1,2
TA	Test attendance

er of working days	( Excluding holidays and T
Monday	15
Tuesday	15
Wednesday	16
Thursday	17
Friday	17
Total	80

Hi AD OF THE DEPARTMENT Dept. A electronics & Communication Engg K.S. Institute of Technology Bengaluru - 560 109

- PRINCIPAL K.S. INSTITUTE OF TECHNOLOGY BENGALURU - 560 109.





K. S. INSTITUTE OF TECHNOLOGY, BANGALORE
IV SEM
FIRST SESSIONAL TEST TIME TABLE (2022-2023)
(EVEN SEMESTER 2023)

District	100	16.	1000	#2000 B	я.

DATE	(TIME)	ARTIFICIAL INTELLIGENCE A MACHINE LEARNING	COMPUTER SCIENCE	CONFUTER SCIENCE	ELECTRONICS & COMMUNICATION (ENGG)	MECHANICAL ENGG
36/06/2023	0:30 AM To 10:30 AM	21CS41 Mothematical Foundations for Computing	21C541 Mathematical Foundations for Computing	21C941 Methematical Foundations for Computing	21BC41 Maths for Communication Engineers	21ME41 Complex Analysis, Probability and Linear Programming.
Monday	2:00 FM To 3:00 FM	21CS42 Design and Analyzin of Algorithms	210942 Design and Analysis of Algorithms	21C842 Design and Analysis of Algorithms	21EO42- Digital Signal Processing	21ME42 Machining Science and Jigs & Fintures
27/06/2023	9:30 AM To 10:30 AM	21C843 Microtostroller and Embedded Systems	210843 Microcontroller and Embedded Systems	210943 Microcentroller and Embedded Systems	215043 Circuits & Controls	21ME43 Fluid Mechanics
Tuesday	1:30 FM To 2:30 FM	21BEAS Biology For Engineers	21BBAS Biology For Engineers	21BEA5 Biology For Engineers	21BE45 Biology For Engineers	218845 Sidogy For Engineers
	9:30 AM To 10:30 AM	21C844 Operating Systems	21C544 Operating Systems	21CS44 Operating Systems	21EC44 Communication Theory	21ME44 Mechanics of Materials
28/06/2023 Wednesday	1:30 FM To 2:30 FM	21CIP47 Constitution of India and Professional Ethics (CIP)	21KSK37/47 Senskrutika Kannada / 21KBK47 Balake Kannada	21K3K47 Samskrutika Kannada / 21KBK47 Balake Kannada	21CtP47 Constitution of India and Professional Ethics (CtP)	21K3K47 Samskrutiko Kannada / 21KBK47 Balake Kannada
	3.00 PM To 4:00 PM	21UH49 Universal Haman Values	21 UH49 Universal Human Values	21UH49 Universal Human Values	21UH49 Universal Human Values	21UH49 Universal Human Value

Academic Coordinator

Jept of Hechanical EngaK.S. in State of Technology

Bengalutus 860 103.

Principal GAPI
PRINCIPAL
K.S. INSTITUTE OF TECHNOLOGY
BENGALURU - 560 109.

## K. S. INSTITUTE OF TECHNOLOGY, BANGALORE - 109

II & IV SEMESTER - Ist CIE TEST INVIGILATION DUTY (2022-2023)

Date	Timings	SEM	NB SH 008 (GF Flour)	NB 101	NB 102	NB SH 103 (Int Fisor)	NB 104	NB 202	NB 203	NB SH 204 (2nd Floor)	NB 205	NB 301	NB 302	NB SH 303 (hrd Floor)	MB 304	MB SH 463 (4di Floor)	OB SH 307 (2rd Fleer)
	9:30 am to 10:30 am	III	SD	KBN (CSE)	NP (CSE)	OHIO PHS	PSE (CSE)	ST (CSE)	SA (CSD)	(MID) SB	AS (ADML)	RICM (AIML)	BHA	TML (ML) SKR	88 (85)	NP (AIMOJ	BVI . OUCHT
16/6/2023 MONDAY	2:00 pm to 3:00 pm	п	AR (ECE)	SS (ADML)	OX.E	NKS (ME)	VD (ECR)	AK (ME)	RN (ME)	(CSD) LN (ME)	mi Over	KP (ME)	BS (BS)	(ECE) NA (ECE)	KIN	OB.	(CSE)
		II.	(CSE)	BHA		(ECE) AR	A COLOR		Currels	MN (BS)	(mb)	UNIC	Smok	(CSE)	(195)	(EGE)	(B5) SBC
	9:30 am to 10:30 am	iv	(ECE) RSB ACSIO	(ECE)	SS (AIMIL)	IN (MID	(MRX)	(ME)	TML (ME)	MECE) MEV (BS)	MIN (85)	9V1	SG (BS)	(ME) LC (05)	(ECE)	(AIMIL)	MS (BS)
27W/2023 CUESDAY	1.30 pm to 1.30 pm	n	(ECE)	ST	KBN (CSE)	AF IECEO	PHS (CSE)	RH (CSE)	AS (AIMIL)	NM (ME)	58 (CSD)	SS OF CE	ROOM	MOSTR (MEE) LIKIN	100	RK	(CSE)
	3:00 pm to	IV III	CSED	$\overline{\mathbf{x}}$	$\overline{\mathbf{x}}$		×	×		1000	NKII	CI Ø	(ABME)	(CSE)	*	(CSE) SRC	SGN (BS) TR
	9:30 am to 10:38 am	11	NICS (ME) SA	58	SKB	MV (BS) SS	8	AR	ST	KR (ECE)	(RCE)	(ECE)	KIRS	MS (BS)	(BS) SGN:	TR	(DS) LKK (CSE)
	19139 km	IV	(CSD)	(CSD)	(ECE)	APML)	(ECE)	(ECU)	(CSE)	ICSE)	(CSE)	(BS)	(88)	(CSE)	(85)	(85)	(BS)
EDNESD AV	2.36 pm to	II IV	(ME) MN (BS)	(ECE)	(ECE)	(ME) KRS (BS)	(ME)	SVI P	AP (RCE)	(BS) ALB (CSE)	SSB (CSE)	SD (CSE)	KTN (BS)	(AIMIL) KTN (BS)	MIV (BS)	NM (NE)	(ME)
	3:00 pm to	п	MBR (ME) RICM	TML (ME)	nin	LC (RS)	KRM	BC (RS)	SRC	MS (85)	SCIK	TR	1MK	RH (CSE)	NE	SG	(BS) NKS (ME)
	230 pm	TY	(AIMIL)	(MUR)		accept	ares.	(65)		(CSE)	(NS)	(mea)	(CSE)	(CSE)	(CSE)	(ma)	LN (ME)

ACADEMIC GOORDENATOR

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BENGALURU - 560 109.

## K.S.INSTRUTE OF TECHNOLOGY, BANGALORE - 109

II & IV SEMESTER

FIRST SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER - 2023)

### BLACK BOARD

ROOM NO: NB LH 104 (15T FLOOR)

CS II 'C' SEC	ECE IV 'A'	CS II 'C' SEC
1KS22CS169	1KS21EC001	1KS22CS175
1KS22CS170	1KS21EC002	1KS22CS176
1KS22CS171	1K\$21EC003	1KS22CS177
1KS22CS172	1KS21EC004	1KS22CS178
1K522CS173	1KS21EC005	1KS22CS179
1KS22CS174	1KS21EC006	1K522C5180

ECE IV 'A' SEC	CS 11 'C' SEC	ECE IV 'A'
1KS21EC007	1KS22C5181	1KS21EC014
1KS21EC008	1KS22CS182	1KS21EC015
1KS21EC009	1KS22CS183	1KS21EC016
1KS21EC010	1KS22CS184	1KS21EC017
1KS21EC011	1KS22CS185	1KS21EC018
1KS21EC013	1KS22CS186	1KS21EC019

CS II 'C' SEC SEC	ECE IV 'A'	CSD 11 'D'
1KS22CS187	1KS21EC020	1KS22CG004
1KS22CS188	1K521EC021	1KS22CG005
1KS21CS013	1KS21EC023	1KS22CG006
1KS22CG001	1KS21EC024	1KS22CG007
1KS22CG002	1KS21EC025	1KS22CG008
1KS22CG003	1KS21EC02	1K522CG00

ECE IV 'A' SEC Total = 24

ACADEMIC COORDINATOR

Head of the Department Dept, of Machanical Engg. K.S. Inadiute of Technology-Bengaluru - 550 103. PRINCIPAL

K.S. INSTITUTE OF TECHNOLOGY BENGALURU - SFO 109

## K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109

#### II & IV SEMESTER

### FIRST SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER - 2023)

BLACK BOAKO

ROOM NO: NB LH 202 (2ND FLOOR)

CSD II 'D' SEC	ECE 1V A'	CSD II 'D'
1KS22CG010	1KS21EC027	1KS22CG016
1K522CG011	1K521EC028	1KS22CG017
1K522CG012	1KS21EC029	1KS22CG018
1KSZZCG013	1KS21EC030	1K522CG019
1KS22CG014	1KS21EC031	1K522CG020
1KS22CG015	1KS21EC032	1KS22CG021

ECE IV 'A'	CSD II 'D'	FCF IV 'A'
1KS21EC033	1K522CG022	1K521EC040
1KS21EC035	1KS22CG023	1KS21EC041
1KS21EC036	1KS22CG024	1KS21EC042
1KS21EC037	1KS22CG025	1KS21EC043
1KS21EC038	1K522CG026	1KS21EC044
1KS21EC039	1KS22CG027	1KS21EC045

CSD-III 'D' SEC	ECE IV A	CSD II 'D' SEC
1KS22CG028	1K5Z1EC046	1K522CG034
1KS22CG029	1KS21EC047	1KS22CG035
1KS22CG030	1K521EC048	1KS22CG036
1KS22CG031	1KS21EC049	1KS22CG037
1KS22CG032	1KS21EC05	1K322CG038
1KS22CG033	1KS21EC05	1 1KS22CG039

ECE IV 'A' SEC Total = 24 CSD II 'D' SEC Total = 30

CADEMIC COORDINATOR

Head of the Department Dept, of Mechanical Engg. K.S. Inatifule of Technology Bengaluru - 590 109. PRINCIPAL

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## K.S.INSTOUTE OF TECHNOLOGY, BANGALORE - 109

II & IV SEMESTER

FIRST SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER - 2023)

BLACK BOARD

ROOM NO: NB LH 203 (2ND FLOOR)

CSD II 'D' SEC	ECETV'A'	CSD II 'D'
1KS22CG040	1KS21EC053	1KS22CG046
1K522CG041	1K521EC054	1KS22CG047
1KS22CG042	1KS21EC055	1KS22CG048
1KS22CG043	1KS21EC056	1K522CG049
1KS22CG044	1KS21EC058	1KS22CG050
1KS22CG045	1KS21EC059	1K522CG051

ECE IV A	GSD II D'	ECE IV A&B
1KS21EC060	1KS22CG052	1K521EC066
1KS21EC061	1KS22CG053	1KS21EC067
1KS21EC062	1KS22CG054	1KS21EC068
1KS21EC063	1KS22CG055	1KS21EC069
1KS21EC064	1KS22CG056	1KS21EC070
1KS21EC065	1KS22CG057	1KS21EC071

CSD II D	ECE IV B	AIML IL'E'
1KS2ZCG058	1KS21EC072	1KS22AI001
1KS22CG059	1KS21EC073	1KS22A1002
1KS22CG060	1KS21EC074	1KS22A1003
1KS22CG061	1K\$21EC075	1KS22AI004
1KS22CG062	1KS21EC076	1K522AI005
	1KS21EC077	1KS22AI006

ECE IV 'A & B ' SEC Total = 24

CSD II 'D' SEC=23 AIML II 'E' Sec=6 Total = 29

ACADEMIC COORDINATOR Head of the Department Dept. of Mechanical Engg. K.S. Institute of Technology

Bengaluru - 560 105.

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# K.S.INSTI UTE OF TECHNOLOGY, BANGALORE - 109

II & IV SEMESTER

FIRST SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER - 2023)

BLACK BOARD

ROOM NO: NB SH 204 (2ND FLOOR)

AIML II 'E' SEC	ECE IV 'B'	AIML II 'E'		
1KS22AI007	1KS21EC078	1KS22AI017		
1K52ZAI008	1KS21EC080	1K\$22AI016		
1K522AJ009	1KS21EC081	1KS22AI019		
1KS22AJ010	1K521EC082	1KS22A1020 1KS22A1021		
1KS22AI011	1KS21EC083			
1KS22AI012	1KS21EC084	1KS22AI022		
1KS22AI013	1KS21EC085	1KS22AI023		
1KS22A1014	1K521EC086	1K522AI024		
1K522A1015	1KS21EC087	1KS22AI025		
1KS22AI016	1K521EC088	1KS22AJ026		

ECE IV 'B'	AIML II 'E'	ECE IV 'B'		
1K521EC089	1KSZZAJ027	1KS21EC100		
1KSZ1EC090	1K522AJ028	1KS21EC101		
1KS21EC091	1KS22AI029	1KS21EC102		
1KS21EC092	1KS22AI030	1K521EC103		
1KS21EC093	1KS22AI031	1KS21EC104		
1KS21EC095	1KS22AI032	1KS21EC105		
1KS21EC096	1KS22AI033	1KS21EC106		
1K521EC097	1KS22A1034	1KS21EC107		
1KS21EC098	1KS22AI035	1KS21EC108		
1KS21EC099	1KS22AI036	1KS21EC109		

AIML II 'E' SEC	SEC IV 'B'	SEC 1
1K522AI037	1KS21EC110	1KS2ZAJ047
1KS22A1038	1KS216C111	1KS22AI048
1KS22AI039	1KS21EC112	1KS22AI049
1KS22AI040	1KS21EC113	1K522AJ050
1KS22AI041	1KS21EC114	1KS22AI051
1K5ZZAJ042	1KS21EC115	1K5ZZAI052
1KS22AI043	1KS21EC116	1KS22A1053
1KS22A1044	1KS21EC117	1KS22AI054
1KS22AI045	1KS21EC118	1KS22A1055
1KS22A1046	1KS21EC120	1KS22AI056

1KS22AI057

ECE IV 'B' SEC Total = 40 AIML II 'E' Sec Total = 51

ACADEMIC COORDINATOR Head of the Department of Capt. of Mechanical Engg K.S. In-state of Technology Bengaluru - \$40 103.

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### K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109

II & IV SEMESTER

FIRST SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER - 2023)

BLACK BOARD

ROOM NO: NB LH 205 (2ND FLOOR)

AIML II 'E'	ECE IV 'B'	ECE II 'F' SEC
1KS22AI058	1KS21EC121	1KS22EC001
1K522AI059	1KS22EC400	1KS22EC002
1KS22AI060	1KS22EC401	1KS22EC003
1KS22AI061	1KS22EC402	1KS22EC004
1KS22AI062	1KS22EC403	1KS22EC005
1KS22AI063	1KS22EC404	1KS22EC006

ECE IV 'B'	ECE II 'F'	SEC ATMI-TV
1KS22EC405	1KS22EC007	1K522EC411
1KS22EC406	1KS22EC008	1KS22EC412
1KS22EC407	1KS22EC009	1KS21AI001
1K\$22EC408	1K522EC010	1KS21AI002
1KS22EC409	1KS22EC011	1KS21AI003
1KS22EC410	1KS22EC012	1KS21AI004

ECE II F	ATML IV SEM	ECE II 'F'
1KS22EC013	1KS21AI005	1KS22EC019
1KS22EC014	1KS21AI006	1KS22EC020
1KS22EC015	1KS21AI007	1KS22EC021
1K522EC016	1KS21AI008	1K522EC022
1KS22EC017	1KS21AI009	1KS22EC023
1KS22EC018	1KS21AI010	1KS22EC024

ECE IV 'B' SEC=14 AIML IV =10 Total = 24 AIML II 'E' Sec=6 ECE II 'F' Sec=24 Total = 30

ACADEMIC COORDINATOR

Head of the Department Dept. of Mechanical Engg. K.S. Institute of Technology Bengaturu - \$60 103. PRINCIPAL

KS. INSTITUTE OF TECHNOLOG BENGALURU - 500 109

## K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109 Department of Electronics and Communication Engineering Attendance of IV 'A' for First Internal Test (2022-2023)

SLN O	NO: NB 104	MATRS FOR COMMUNICA TION ENGINEERS	DEGITAL SIGNAL PROCESSING (21EC42)	CIRCUITS & CONTROLS (ZIECO)	BIOLOGY FOR ENGINEERS (218E45):	COMMUNIC ATION THEORY (21EC44)	CONSTITUTIONS OF INDIA AND PROPESSIONAL ETHICS:(CIP) 21C3P47	UNIVERSAL DUMAN VALUES (210HP)
1	IKS21EC001	Andhya:BA	Aughap 32	Andlyps	Andhy Je	nodhyos	Madling By	Andrige Bi
2	1K521EC002	- poster	ABSENT		-HR-	A.F.	- 105	100
3	(KS21EC003	Shopek	albtek	doller	Shifter	Ablile	delet	Stiller
4	IKS21EC004	Althertoh	Abhield	Althold	Allind	Reflished	Albertet	Mother
5	1KS21EC005	At ay A	A Lay	Attack	Kit of	A ATS	F90, -	1160
6	IKS21EC006	Am	Am	Am	Ain	Am	Am	Am
7	IKS21EC007	Hierans	Myran	Skanny	Afthin	Akinan	Afghaing	Appliag .
8	1KS21EC008	Anagha	1. 1.	Aragha	Angalo	Araque	Anagha	Angoha
9	1KS21EC009	Brush	10 well-	Quella	Budla	Banche +	Beroll	Budita
10	1KS21EC010	Add to the second	Archaro.6.M		dechara to		Actionals M	dichara.
II	1KS21EC011	1	1 1	A. L.M.	techan 21	Aurland	Andrews M.	AnchoraM
12	1KS21EC013	A I Jasonis	Molarpetil	Michigan	Mulayeda	Lugay Po	pchilargasis	Malage 16
13	IKS2IEC014	Ashan Si	Mhany	Alharity	Arbairs	MK-011 50	Ashame	Khaha
14	1KS21EC015	Lund	140	Thank	Therand	Tout	Turnelly-	Timed
15	IKS21EC016	AE -	(Jacon)	- MIL-	Dam	tan	Taren	Soan
16	IKS2IEC017	agan	Q gov	Dogan	angan	Angal	Doyan	Doyan
17	IKS21EC018	Bhawaik			Bhaugas	Blangak	Blanger	Blauf
18	1KS21EC019	2	Att.	1	1	14	tell	杨
19	1KS21EC020	Binds .	Bindud.	Birdy	Binds	Birds	Bindurky	Birdus
20	1KS21EC021	ditt	dintar	alu.	Aites	du	au	Olisa
21	1KS21EC023	Chinanthy		Chikanh	Chamathu-	Own Bre	Lieanth 1	Cheranter
22	1KS21EC024		Chanitha	7,111	-Manager and a second	4	chanitha	chaziitha
23	1KS21EC025	Carriel -	Danis 18	Park 3	Diels	ands	Quiles 1	Dans-
24	1K\$21EC026	antelle	pitche-	N. KA	id	mer	and -	while
DATE		26 06 43	26 6 23	27 6 23	27 6 3	28/6/43	18/0/23	21/23
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NO. O	F STUDENTS NT	02	01.	02-	01	02	07	600
	OF INVIGILATOR	0.00	Vishalino	RN	Korstina Car	Chmb		Kavaa A
SIGNA	ATURE OF	Rashow H	1,000	R	to de	Carlo	120	Managa M

### K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109 Department of Electronics and Communication Engineering Attendance of IV 'A' for First Internal Test (2022-2023)

SLN Ø	REGISTER NO.	MATHS FOR COMMUNICA TION ENGINEERS	BEGITAL SIGNAL PROCESSING (DEC42)	CIRCUITS & CONTROLS (216C-G)	HOLDGY FOR ENGINEERS (21BE4S)	ATTON THEORY (21EC-10)	CONSTITUTIONS OF INDIA AND PROPESSIONAL ETHICN (CIP)	UNIVERSAL HUMAN VALUES (210H49)
1	1KS21EC027	(TIKCH)	20000000	Leepko	to explo	The State of the S	mention a	to expire
2	1KS21EC028	Cugl	Carl	Comb	111	Count	Coul	Call
3	1KS21EC029	God N	GUN	a. N	Gagad	G.N	Gagaian	BOL IN
4	TKS21EC030	(-A&-)	48	(AB)	nr.	100	47 -	-00
5	1KS21EC031	quille-	granhat-	(goodhaku	1 1/6-	Company	Gundanton.	Carpino
6	IKS21EC032	Laure Fajuet	Lun Popul	Lauritajul	Main Roject	Jan- Zajul	Low Rague L	Lasar Rajoli
7	IKS21EC033	Houst OR	Heratto R	Herenti Of	Abroll DA	Hemilon	ibracith OA	Herodop
8	IKS2IEC035	a+4.	akt.	ars	axa	DY4.	ars-	144.
9	IKS2IEC036	land	Karast	Kon By	Karant	House	Kanand	Lower
10	IKS21EC037	Kuttusk	Keuttard	Western .	1 entires	Kuttaa		Vintario
11	IKS21EC038	Komaket	KomalaN	Kennakil	Komula		be // /	tomated
12	1KS21EC039	Ko	too	to-		Kow	-Kow .	Hu
13	IKS21EC040	Kuruma M.	Musur 6	Vww M	Muum	theren.	Kusuma Ms	Kusuma
14	1KS21EC041	Likithet	Likimel	1. With	Likild	Jisith	Likited	Likeled
15	KS21EC042	4	4-	4	4	Q-	#	A
16	IKS21EC043	Lhith.B	With B	(Ab)	ldith B	Still B	Left H.B	Rehithits
17	IKS21EC044	LLH;	Lotill's	14.5	Talitis	Zilid.	1-601.c	Hel.
18	1KS21EC045	ount.	manel	mark	mand	mand.	manol -	mind
19	IKSZIEC046	Meglan	Medana	M-d-	M-IN	Marken	M-1.2	Mayhama
20	IKS21EC047	HAA.	Neper.	Moderal	Water	white	Myler	Not W
21	IKS21EC048	MILE	MIR	枢.	the	机配	Net .	Uth
22	IKS21EC049	MSD MSD	W87	Manga	Morello	man (	hear	100
23	IKS21EC050	AB	foil	(tall	toll	Larry	& all	Call
24	IKS21EC051	P. Day	P. Day	(P. Day	P. Oal	P.Dal	P. Donl	(B. Day)
	26/6/23		26/6/200)		17 42	28 06 25	29/6/23	28/6/23
RESEN		22	23	22	21	23	25	23
BSENT	TUDENTS	2	1	0.2-	03	01	ci	01
AME O	FINVIGILATOR	Germalita	Anal	الداريل ال	RASHMAH	Amouthal	Variat Kit	Kanyar J.
IGNATI NVIGIL	CH0000001	1, town	the.	THE	Roshmit	ANTER	10	malya
		1		100		18/06/2	2	-

# K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109 Department of Electronics and Communication Engineering Attendance of IV 'A & B' for First Internal Test (2022-2023)

Room	No: NB 203							
SLN O	REGISTER NO.	MATHS FOR COMMUNICA TION ENGINEERS (21EC41)	DEGITAL SIGNAL PROCESSING (21EC42)	CIRCUITS & CONTROLS (21EC43)	BIOLOGY FOR ENGINEERS (21BE45)	COMMUNIC ATION THEORY (21EC44)	CONSTITUTIONS OF INDIA AND PROFESSIONAL ETHICS (CIP) 21CIP47	UNIVERSAL HUMAN VALUES (21UB49)
1	1K521EC053	Any	Ansi	Ang	Anj	Anj	Any	Arij
2	1KS21EC054	Ms:	A	Nav	A	m'	Nevcons.	Namons
3	1KS21EC055	Male	Naugaste	Navara	Nathry	Marjana	MARKINAZ	Novari
4	1KS21EC056	AUCSWEET	Desayorly	X Manor	Jayanas	mong	Muhad	hipping
5	IKS21EC058	AREM	Owker Mis	OW PRINTE	auto No	Omkan NH		Bulco. N.22
6	1KS21EC059	AU1117	K)	80.	KQ.	80-	In Q	KO.
7	1KS21EC060	mignither	majures,	may with	prayate.	majury	majusty	masulle
8	1KS21EC061	PoojaR	Poola.R	-	Poglo &	Poolare.	200/a.P.	Poolak
9	IKS21EC062	Prising D	Profes C	Burnat D		1	Barren . O	Drostenfol
10	1KS21EC063	A Literal	_A & -	(AB)	BELEVIII	-136 -	Als-	-AL-
11	1KS21EC064	972	W2	996 9	1/2	9/2	Polo	Topo
12	IKS21EC065	Paralyous.	majurant.	project in	mades	prajuse	printal 12	bank gone
13	1KS21EC066	X	L	X	Y	12-	Y	Ve
14	1KS21EC067	Proper	Replint	Wagen	Prophil	Royson	WHAT	Toyle
15	1KS21EC068	Predtyma	Prechamy	Prothers	Prethon	Preethan)	Preethin My	Preatham
16	1KS21EC069	Prekulal	Prekela	Prekola	Probot S	Brekele	Botelo	Prekyha
17	1KS21EC070	Punith 15	Punitar	Remithen	Puntos	Punither	Punither "	Pendtho
18	1KS21EC071	D	@	@	00_	Q	<b>Q</b>	Que.
19	1KS21EC072	Affician	_ AB -	(AB)	BBSENT.	-AR-	- Ab-	_A6-
20	1KS21EC073	ROME	Q_g.MR	ROMO	Deme	Lone	D.g.m. &	Ry.r
21	1KS21EC074	/ Cent	_AB	(AB)	100	-00-	-AB-	Ath-
22	1KS21EC075	Rehalf	BURD	Darley	Politics (	W. C.	Roll.	BAB
23	1KS21EC076	Retish	Return	Ritish	Riteal	Testish	Rotuh	Riturle
24	1KS21EC077	Low	+ Ream	of your	1 stem	AHOM	Il ram.	Allery
ATE	- Commence of the Commence of	26 06 25	26/06/22	27/6/23	arbles I	28[(/)]	28/04/27	28/6/65
RESE		18	21	20	21	21	2i	21
O. OF	STUDENTS ST	06	03	0403	-577	23	63	03
AME	OF INVIGILATOR	Sustanof	Rangameth.	Tejasmin MI	وبولمتم	Consolities	de	DR WATCH
	TURE OF	Cha	R	Jej	Eld.	1. Line	1.75	1/8

### K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109 Department of Electronics and Communication Engineering Attendance of IV 'B' for First Internal Test (2022-2023)

COUR	No: NB SH 204							
SL,N O	REGISTER NO.	MATHS FOR COMMUNICA TION ENGINEERS (TIECH)	DEGITAL SIGNAL PROCESSING (21EC42)	CBICUITS & CONTROLS (21EC43)	BIOLOGY FOR ENGINEERS (21BE45)	COMMUNIC ATION THEORY (2IEC44)	CONSTITUTIONS OF INDIA AND PROFESSIONAL ETHICS (CIP) 21C1P47	UNIVERSAL HUMAN VALUES (21UH49)
1	1KS21EC078	Mod	day	hank	(Appelle	Yes	Ham	Herb
2	1KS21EC080	SWES	CYS	SNZ	952	CHIZ	SWZ	SVIZ
3	1KS21EC081	- 34 s	(10)	(AB)	AR.	AB.	-AB-	dyp.
4	1KS21EC082	Routh	Quart .	Rousett	Rull	Quell	Rough =	Remett
5	1KS21EC083	Spectation	Sankitha	Sanhotal	Soulilled	Souliva	Sandish	Bull
6	1KS21EC084	Sonianal	suguesto	anguego	Sayanay	conjunca	Campanasa	amfana
7	1KS21EC085	max -	EAB	AB	AB.	AB	-017-	AB
8	1KS21EC086	CySin	484	you	981	481	CHEN	CHIZI
9	1KS21EC087	-As->	ENB-	(AB)	100	AB ·	-03-	VIB.
10	1KS21EC088	Rectan	lith	telle	lether	bothy	fertus	Pater
П	1KS21EC089	A SS	BIK	EK	1	( C	4	The second
12	1KS21EC090	Sharload A	Charloul Col	Spelloude	Michael Cu	e sharhandi kita	Sherharts out	Shayborda
13	1KS21EC091	\$	\$	4	\$	8-	\$_	1
14	1KS21EC092	K-Ad->	200)	(AB)	AR	AB	-00-	NP.
15	1KS21EC093	to	das	fa)	800-	00	& Com	la)
16	1KS21EC095	E-11/12	<-AB→	(40)	All	AB	-00-	AB
17	1KS21EC096	ablahmid	Wahrhoul	Bolakelmi	Mahdant	1	Wakelimi 4	Makelow
18	1KS21EC097	(Rappin)	(Brigain	(Kolpain	Christin	(Brita)	(Britain	(3 mps
19	1KS21EC098	0	0	0	D	(2)	0	0
20	1KS21EC099	Strongth.	Europa .	Summeth	Sweeth	Smerth	Sincella	Secund
21	1KS21EC100	Shore 16	Burely	Sunces	Twelf	Such &	Burela	Junels
22	IKS2IEC101	a Alexan	Eng)	AB	AB	AB -	-AR-	AR.
23	IKS21EC102	Supp.	Such	8all	8.4	Suff.	Portel	304
24	1KS21EC103	(-ph-3	4AB-	AB	Aß	AB	-00-	AB.
25	1K521EC104	c-112-5	<-/33->	X 10	AB	AB	-031	AR

IGNAT	URE OF	SIMCER!	Harnatha W	Laured	Residence .	Kumark	VIRAnama	MANA
BSEN		13	13	12	12	13	12	12
O. OF	STUDENTS	alt	27	08	28	27	28	28
and the last	STUBENTS		25/06/23	AT OHU	27/0/25	28 6/23	281612)	28623
ATE		report an	Whakin	1	uskakt a	whatch	MANNEC R	Whatcop
40	1KS21EC118	andie	Ulumber	Chulens	land	and	anne	aulus -
38	IKS21EC117	To Find	Valant	Vis Arest	Myrick	Williams	vallener	Palent
37	IKS21EC116	NUMBER	Market		N. S.	N. with	NEWS -	N. Wat
	1KS21EC115	0600	4-900-)	1. sog. [	Jeda	Vidge	Vidge .	Vidag.
36	IKS2IEC114	Varity "	January .	Janua Su.	Very "	- A5 -	Veres 4.4	James &
35	IKS21EC113	(-/\lambda)	Janes 44	AB)	76	As	-00-	AB
34	IKS21EC112	Voustio-S	Vandas	Voxelias	bulos	Varidio	Voudal	Audio de
33	1KS21EC111	che)	6-110 J	(AB)	Mr.	As	-03-	AP,
32	1KS21EC110	Whiteles	Markensky	Varihad	Variant	Marked	Belliouries	Pankar
30	IKS21EC109	N da	Vas	Luly	Delin	Ude	Uden	Uda
29	1KS21EC108	14164	differ	dilla:	THALL	dista:	apple	46466
28	IKS21EC107	Aprilla	Thyara	Mahajark	a the atm	Thycury	Thefaury	Thejarle
27	IKS21EC106	1	< 4B	(AD)	MTI	As	-A13-	AB
26	TKS21EC105	17.8700 7	4 AB >	(AB)	706	13	- AB-	1.00

### K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109 Department of Electronics and Communication Engineering

Attendance of IV 'B' for First Internal Test (2022-2023)

Roon	n No: NB 205	-						
SLN 0	REGISTER NO.	MATHS FOR COMMUNICA THON ENGINEERS (21EC41)	DEGITAL SIGNAL PROCESSING (21EC42)	CIRCUITS & CONTROLS (21EC4)	BIOLOGY FOR ENGINEERS (21BE45)	COMMUNIC ATION THEORY (21EC44)	CONSTITUTIONS OF INDESIONAL PROFESSIONAL ETILICS (CIP) 21CIP47	UNIVERSAL HUMAN VALUES (21UH49)
1	IKS21EC121	@ybalus	O your	Myshur	100 July	K Quento	@ yashwork	PO YORKU
2	1KS22EC400	Mother	Addition)	Anathras	author	Hoper >	Aditton	Addition of the
3	1KS22EC401	Ayurn 5	Jue B.	Anna	Bong AB	Acces.B	Brown of	Approve
4	1KS22EC402	astr-	dw-	dw-	du	800-	(h)-	du
5	1KS22EC403	chaite &	chairman	chaire w	Chairan		chaitre N	chaitra
6	1KS22EC404	a official w	College	External .	Glor.	State	Likeway.	GOS lower
7	1KS22EC405	horro	homo	home	Luma	the wa	hama	Luma
8	1KS22EC406	Bush F	Prince W.P	COLUMN MA	Payer H.P	Davar HP	Parent H.P	Phuse H.P
9	1KS22EC407	Privatos.	By OR	Polok	The work	(Hast)	1 Byun 38	Cognas
10	1KS22EC408	Sur white	garquita	L.033	gargulla	30 May	Samuella	Sand infer
11	1KS22EC409	Bling	Sly	8,4	300	-AB -	-AB-	AR
12	1KS22EC410	Servines	Samuel	Sample	Brown	Same	Compadi	Journey.
13	1KS22EC411	Sudee P.P.	Sideer A	Lolig P.	Sideer F	Puller 8	Septem. P	Simber
14	1KS22EC412	1444	obide -	Var.	No.A.	Void.	that.	-laos
ATE:		26/06/23	26/6/43	27/0/23	97/6 23	28623	28 6 23	28(0)2
O. OF	STUDENTS	14	14	13	14	13	13	13
O. OF	STUDENTS	0	0	01	00	01	01	UI
AME	OF INVIGILATOR	Amulya S	Hv	Hamatha N	PHS	Kit W	PANAPUT MAN	VRamen
	TURE OF LATOR	RY.	0	0	14	agal	Peyo	1



# K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109 FIRST INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER

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Degree : B.E

Branch - Stream : I

Course Title : Duration :

ECE B.E

Circuits & Controls 60 Minutes USN Semester: 4th

Course Type / Code: Core/21EC43

Date: 27th June 2023

Max Marks: 20

Note: Answer ONE full question from each part.

K-Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Ouestions

Marks

Q	Questions	Marks	CO	K- Leve
No.	PART-A	_	-	-
(a)	Determine current through 2 $\Omega$ resistor using most analysis $2 \Omega = 15 \Omega$	4	CO1	кз
(b)	State Thevenin's & Norton's theorem. Obtain Thevenin's equivalent network across the terminal AB for the circuit shown below.    150   10-0	4	CO1	кз
(c)	State maximum power transfer theorem & find the value of R such that maximum power transfer can take place from the network to R. Also find the maximum power delivered to R  SA  SA  SA  SA  SA  SA  SA  SA  SA  S	4	CO1	К3
	OR			
2(a)	For the network given below determine node voltages V <sub>1</sub> , V <sub>2</sub> , V <sub>3</sub> and V <sub>4</sub> using nodal analysis.  V <sub>1</sub> V <sub>2</sub> V <sub>3</sub> V <sub>4</sub> V <sub>5</sub> V <sub>4</sub> V <sub>4</sub> V <sub>5</sub> V <sub>4</sub> V <sub>5</sub> V <sub>7</sub> V <sub>8</sub> V <sub>9</sub>	4	COI	кз

D	efine super position theorem. Find the current through 20Ω resistor using Super position	4		
ь)	4A A S 20 52 30 51 51 51 51 51 51 51 51 51 51 51 51 51		COI	кз
(c)	State Thevenin's & Norton's theorem and obtain Norton's equivalent circuit for the network given below.  2010  454  654  654  654  655  656  657  657	4	coı	К3
3(a)	Find 2 and Y parameters for the network shown below.  The state of the network shown below.	4	CO2	К3
(b)	For a certain two port network $V_1$ and $V_2$ are given by $V_1$ =601,+201; $V_2$ =201, +4012. Find Z & Y parameters.	4	CO2	кз
	Find Z and Y parameters for the network shown below.			
4(n)	Find Z and Y parameters for the fection of the first of the fection of the fectio	4	CO2	кз
(b)	For a certain two port network $I_1$ and $I_2$ are given by $I_1=2V_1+V_2$ $I_2=10V_1+11V_2$ Find Y & Z parameters.	4	C02	кз

Name & Signature of Course in charge:

Name & Signature of Module Coordinator:

Principal



## K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109 FIRST INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER

SET: B

Degree :

B.E

Branch - Stream : Course Title : ECE Circuits and Controls

Duration : 60 Minutes

USN

Semester : IV

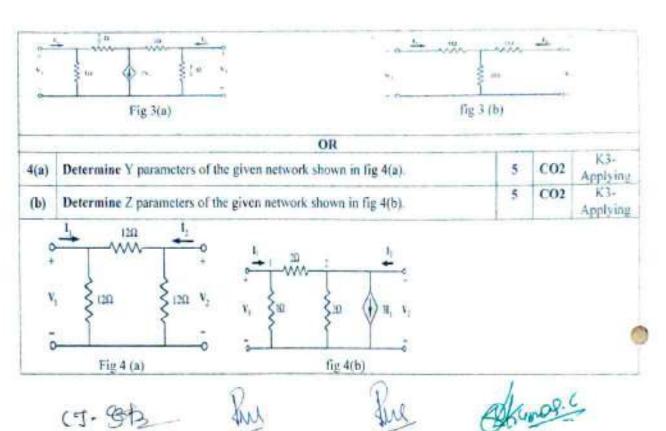
Course Type / Code :21EC43

Date :27-06-23

Max Marks :20

Note: Answer ONE full question from each part.

O No.	Questions	Mar	co	Level
150.	PART-A			
1(a)	For the network shown in fig 1(a), determine the 1x using superposition theorem.	4	C01	K3- Applying
(b)	Determine the thevenin equivalent network between A-B for the given network shown in fig. 1(b).	4	CO1	K3- Applyin
(c)	Determine the mesh current for the network shown in fig 1(e) using mesh analysis method.	4	CO1	K3- Applyin
4	Fig I(a)  Fig I(b)  Fig I(b)	\$30, \$40, [g](c)	3	24
	Fig I(a) fig I(b) f	181(4)		
2(a)	Determine the node voltages for the network shown in fig 2(a) using nodal analysis.	4	COI	K3- Applyin
(b)	Determine Vx in the circuit shown fig 2(b) such that the current through -3j impedance is zero.	4	CO1	K3- Applyin
(c)	Determine the value of RL when maximum power is transferred across the load and also find maximum power transferred for the network shown in fig 2(c).	4	C01	K3- Applyin
VIA	Fig 2(a)  Fig 2(b)  Fig 2(b)	3 n. 5	]	¥
	PART -B			
3(a)	Determine Y parameters of the given network shown in fig 3(a).	4	CO2	K3- Applyin
	Determine Z parameters of the given network shown in fig 3(b).	4	CO2	K3-



Name & Signature of Course In charge: Name & Signature of Module Coordinator:

HOD

Principal

Selected



## K. S. INSTITUTE OF TECHNOLOGY, BANGALORE

IV SEM

SECOND SESSIONAL TEST TIME TABLE (2022-2023) (EVEN SEMESTER 2023)

- 400 mm	- 494	2.00	ARREST OF

DATE	TIME	ARTIFICIAL . INTELLIGENCE & MACHINE LEARNING	COMPUTER SCIENCE & DESIGN	COMPUTER SCIENCE	ELECTRONICO & COMMUNICATION LENGO	MECHANICAL ENGG
31/07/2023	9.30 AM To 10:30 AM	21CS41 Mathematical Foundations for Computing	21CS41 Mathematical Foundations for Computing	21C841 Mathematical Foundations for Computing	218C41 Maths for Communication Engineers	21ME41 Complex Analysis, Probability and Linear Programming,
Monday	2:00 PM To 3:00 PM	21CS42 Design and Analysis of Algorithms	21C542 Design and Analysis of Algorithms	21C842 Design and Analysis of Algorithms	21EC42- Digital Signal Processing	21ME42 Machining Science and Jigs & Fintanes
1/08/2023	9:30 AM T <sub>2</sub> 10:30 AM	21CS43 Microcontroller and Embedded Systems	21CS43 Microcontroller and Embedded Systems	21C843 Microcentroller and Embedded Systems	21EC43 Circuits & Controls	21ME43 Fluid Mechanics
Tuesday	1:30 PM To 2:30 PM	218845 Biology For Engineers	219E45 Biology For Engineers	21BE45 Biology For Engineers	218E45 Biology For Engineers	21BE45 Biology For Engineers
	9:30 AM To 10:30 AM	21C844 Operating Systems	21C544 Operating Systems	21 CS44 Operating Systems	21BC44 Communication Theory	21ME44 Mechanics of Materials
2/08/2023 Wednesday	1:30 PM To 2:30 PM	21CIP47 Constitution of India and Professional Ethics (CIP)	21K9K37/47 Samskrutika Kannada / 21KBK47 Balake Kannada	21KSK47 Samskrutika Kannada / 21KBK47 Balake Kannada	21CIP47 Constitution of India and Professional Ethics (CIP)	21KSK47 Samakrutika Kannada / 21KBK47 Balake Kannada
2 0 × 1 0 × 10 × 10 × 10	3.00 PM To 4:00 PM	21UH49 Universal Human Values	21UH49 Universal Human Values	21UH49 Universal Human Values	21UH49 Universal Human Values	21UH49 Universal Human Values

Note -/All the students are strictly informed to wear Lab uniforms, and college ID eard is compulyory during the test.

Academic Coordinator
Heet of the Department
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K.S. Inclinite of Technology
Rengaluty - 560 183

Principal PRINCIPAL K.B. INSTITUTE OF TECHNOLOGY REMOALITING - 400 169

# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE - 109

H & IV SEMESTER - 2nd CIE TEST INVIGILATION DUTY (2022-2023)

Date	Timings	SGM	NB SH 008 (GF	NB 101	NB 162	NB SH 103 (1st Floor)	MB 164	NB 202	NB 203	NR SH 204 (2nd (lear)	NB 205	NB 301	MB 302	NB SH 303 (2rd (2rd Pleor)	NB 304	NB SH 403 (4th Floor)	OB SH 307 (3rd Floor)
	9:30 am to (0:30 am	II IV	SS (ECE) SD	VD (ECE)	NP (CSE)	(ME) PIS	Riti (CSS)	ST (CSE)	SA (CSD)	MBR (ME) SB (CSD)	AS (AIML)	RKM (ABML)	REIA (ECE)	TML (ME) SKB (ECE)	85 (85)	LIKIE (AIMIL)	SVJ (ECC) KRS (RS)
31/7/2023 MONDAY	2:00 pm to	II	(CSE) AR (ECE) ALB	SS	CJ (ECE)	NRS (ME)	VD (ECE)	NV (05)	RN (ME)	LN (ME) MN	11U (ME)	KP (ME)	SN (BS)	KR (ECE) STS	KTN (BS)	DB (ECE)	KK (CSE) RC
	9:30 am to	n n	(CSE) AP (ECE) SSB	BHA (ECE)	SS (AIME)	AR (ECE) LN	AK	HU (VOE)	TMUL (MIS)	(BS) VD (ECE) S(V	MN (BS)	SVI (BCF)	SG (BS)	(CSE) GTR (ME) LC	ICR (ECE)	LKK (AIML)	(85) MS
1/8/2023 TUESDAY	1.30 pm to	IV II	(CSE) KBM (ECE) SD	ST	STS (CSE)	(MIK) AP (ECE) NP	NV (85)	HIII (CSE)	AS (AIML)	(B5) NDE (ME) SA	SD (CSD)	35 (ECE)	IIIKM (AIML)	MILES MILES AMIES LIKIK (CNE)	DB (ECE)	KK (CSE)	(ES) RJ (CSE) SGK (BS)
	3:00 pm to	B	(096)	$\propto$	$\times$	$\times$	$\boxtimes$	$\times$	$\times$	(CSD)	SKB (ECE)	(ECE)	AK (ME)	(ME) (ME)	HC (85)	SRC (BS)	TA (BS)
	9:39 am to 10:30 am	n IV	MIKS (MES SA	58 (CSD)	SKD (ECE)	MCV (003) 53 (A1ML)	CJ (ECE)	4.2 (ECE)	(C2E)	KK (CSE)	KTN (BS)	1.c (0.5)	KRS (BS)	(US) RJ (CSE)	SGK (RS)	TR (BS)	(CSE)
28/2023 WEDNESD	1.30 pm to	п	(CSD) AK (ME)	SS (ECE)	KBN (CSE)	RN (ME) Kas	NU (ME)	SVJ (ECE)	AP (ECE)	35 (88) ALB	SSB (CSE)	SO (CSE)	KIN (BS)	LKK (ADML) KG	MV (BS)	NM (ME)	NOT (NOE) SN
AV	2.30 pm 3:00 pm to	IV II	(08) MBR (MB)	TML	BIEA	(85) LC (85)	KBM	SOL	SRC	MS (US)	5GK (08)	TR (85)	LECK (CSE)	(CSE) ftR (CSE) PHS	NP (CSE)	9G (BS)	(BS) NKS (ME) LN
	4:00 pm	IV	DIKNI (AIML)	(ME)	(ECE)	(ECE)	(BCE)	(BS)	(0.5)	(CSE)	(08)	57750	1	(CSE)	(made)	feeth	(ME)

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# K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109

II & IV SEMESTER

SECOND SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER - 2023) BLACK BOARD

ROOM NO: NB LH 104 (1ST FLOOR)

CS II C SEC	SEC SEC	CS II C SEC
1KS22CS169	1KS21EC001	1KS22CS175
1KS22CS170	1KS21EC002	1KS22CS176
1KS22CS171	1KS21EC003	1K522CS177
1KS22CS172	1KS21EC004	1K522C\$178
IKS22CS173	1KS21EC005	1KS22CS179
1KS22CS174	1KS21EC006	1KS22CS180

ECE IV A	CS II 'C' SE	ECE IV A
1KS21EC007	1KS22CS181	1KS21EC014
1KS21EC008	1KS22CS182	1KSZ1EC015
1KS21EC009	1KS22CS183	1KS21EC016
1KS21EC010	1KS22CS184	1K521EC017
1KS21EC011	1KS22CS185	1KS21EC018
1KS21EC013	1KS22CS186	1KS21EC019

CS II 'C' SEC	ECE IV A	CSD II 'D'
1KS22CS187	1KS21EC020	1KS22CG004
1KS22CS188	1KS216C021	1KS22C0005
1KS21CS013	1KS21EC023	1KS22CG005
1KS22CG001	1KS21EC024	1K522CG007
1KS22CG002	1KS21EC025	1K522CG008
1KS22CG003	1KS21EC026	1KS22CG009

ECE IV 'A' SEC Total = 24

ACADEMIC COORDINATOR

Head of the Department Dept. of Machanical Engl K.S. In-Shife of Technology Bengaluru - 895 105

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## SECOND SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER - 2023)

ROOM NO: NB LH 202 (2ND FLOOR)

CSD II D SEC	ECE IA .V.	CSD II 'D'
1KSZ2CG010	1KS21EC027	1KS22CG016
1KS22CG011	1KS21EC028	1KS22CG017
1KS22CG012	1KS21EC029	1KS22CG018
1K522CG013	1KS21EC030	1KS22CG819
1K522CG014	1KS21EC031	1KS22CG020
1KS22CG015	1KS21EC032	1KS22CG021

ECE IV A	CSD II 'D'	ECE IV A
1KS21EC033	1KS22CG022	1KS21EC040
1KS21EC035	1KS22CG023	1KS21EC041
1KS21EC036	1KS22CG024	1KS21EC042
1KS21EC037	1KS22CG025	1K521EC043
1KS21EC038	1KS22CG026	1KS21EC044
1KS21EC039	1KS22CG027	1KS21EC045

CSD II D	ECE IV 'A'	CSD;II.'D'
1KS22CG028	1KS21EC046	1KS22CG034
1KS22CG029	1KS21EC047	1K\$22CG035
1KS22CG030	1KS21EC048	1KS22CG036
1KS22CG031	1KS21EC049	1KS22CG037
1KS22CG032	1KS21EC050	1KS22CG038
1K522CG033	1KS21ECD51	1K5220G039

ECE IV 'A' SEC Total = 24 CSD II 'D' SEC Total = 30

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II & IV SEMESTER

SECOND SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER - 2023) BLACK BOARD

### ROOM NO: NB LH 203 (2ND FLOOR)

CSD II 'D' SEC	SEC IV A	CSD II D'
1K522CG040	1KS21EC053	IK522CG046
1KS22CG041	1KS21EC054	1KS22CG047
1K5Z2CG04Z	1KS21EC05S	1KS22CG048
1KS22CG043	1K521EC056	1KS22CG049
1K522CG044	1KS21EC058	1KS22CG050
1KS22CG045	1KS21EC059	1KS22CG051

ECE IV A	P. LEWIS CO., Land Str., London, Mr. and Str., Co., London, Str., Co.,	ECE IV ARB
1KS21EC060	1KS22CG052	1KS21EC066
1KS21EC061	1KS22CG053	1K521EC067
1KS21EC062	1KS22CG054	1KS21EC069
1KS21EC063	1KS22CG055	1K521EC069
1KS21EC064	1KS22CG056	1KS21EC070
1KS21EC065	1KS22CG057	1KS21EC071

CSD II D	ECE IV 'B'	AIML II E
1KS22CG058	1KS21EC072	1KS22A1001
1KS22CG059	IKS21EC073	1KS22A1002
1KS22GG060	1KS21EC074	1KS22AI003
1KS22CG061	1KS21EC075	1KS22AID04
1KS22CG062	1K521EC076	1KS22AI005
	1K521EC077	1KS22AI006

ECE IV 'A & B ' SEC Total = 24

CSD II 'D' SEC=23 AIML II 'E' Sec=6 Total = 29

J. Marrey 22 7 21 ACADEMIC COORDINATOR

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II & IV SEMESTER SECOND SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER - 2023)

BLACK BOARD

ROOM NO: NB SH 204 (2ND FLOOR)

ATML IT F SEC	FCE IV B'	AIML II'E'
1KS22AI007	1KS21EC078	1KS22AI017
1KS22At008	1KS21EC080	1KS22AI018
1KS22AI009	1KS21EC081	1KS22AI019
1KS22A1010	1KS21EC082	1KS22AI020
1KS22AI011	1KS21EC083	1KS22A[021-
1K\$22AJ012	1KS21EC084	1K522AI022
1KS22AJ013	1KS21EC085	1KS22AI023
1KS22AI014	1KS21EC086	1KS22AI024
1KS22Al015	1KS21EC087	1KS22AI025
1KS22AI016	1KS21EC088	1KS22AI026

ECT IA B.	AIML II 'E'	ECE IV '8'
1KS21E0089	1KS22AI027	1KS21EC100
1KS21EC090	1KS22AI028	1KS21EC101
1KS21EC091	1KS22AI029	1KS21EC102
1KS21EC092	1KS22AI030	1KS21EC103
1KS21EC093	1KS22AI031	1KS21EC104
1KS21EC095	1KS22AI032	1KS21EC105
1KS21EC096	1KS22AI033	1KS21EC106
1KS21EC097	1KS22AI034	1KS21EC107
1KS21EC098	1KS22AI035	1KS21EC108
1KS21EC099	1KS22AI036	1KS21EC109

AIML II 'E'	ECE IV B	AIML II 'E'
1KS22AI037	1KS21EC110	1K522AI047
1KS22AI038	1KS21EC111	1KS22AI048
1KS22A1039	1KS21EC112	1KS22AI049
1KS22AI040	1KS21EC113	1KS22AI050
1KS22Al041	1KS21EC114	1KS22AI051
1KS22AJ042	1K521EC115	1KS22AI052
1KS22AI043	1KS21EC116	1KS22AJ053
1KS22AJ044	1KS21EC117	1KS22AI054
1K522AI045	1KS21EC118	1K522AI055
1KS22AI046	1KS21EC120	1K\$22AI056
		1KS22AI057

ECE IV 'B' SEC Total = 40

AIML II 'E' Sec Total = 51

2027 23 ACADEMIC COORDINATOR

Head of the Department Copt. of Mechanical Engg is 3. Inadicate of Technology

Bengalaru - 860 103

PRINCIPAL

- PRINCIPAL K.S. INSTITUTE OF TECHNOLOGY

**BENGALURU - 520 100** 

II & IV SEMESTER

SECOND SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER - 2023) BLACK BOARD

ROOM NO: NB LH 205 (2ND FLOOR)

AIML IT 'E'	ECE IV 'B'	ECE II F
1KS22AI058	1KS21EC121	1KS22EC001
1KS22AJ059	1K522EC400	1KS22EC002
1KS22AI060	1KS22EC4D1	1K522EC003
1KS22AI061	1KS22EC402	1KS22EC004
1KSZ2A1062	1KS22EC403	1KS22EC005
1KS22A1063	1KS22EC404	1KS22EC006

SEC	ECE II P	SEC AIMI TV
1KS22EC405	1KS22EC007	1KS22EC411
1KS22EC406	1KS22EC008	1KS22EC412
1KS22EC407	1KS22EC009	1KS21AI001
1KS22EC408	1KS22EC010	1KS21Al002
1KS22EC409	1KS22EC011	1KS21AI003
1K522EC410	1KS22EC012	1KS21AJ004

ECE II F	AIML IV	ECF II 'F'
1KS22EC013	1KS21A1005	1KS22EC019
1KS22EC014	1KS21A1006	1K522EC020
1KS22EC015	1KS21AJ007	1KS22EC021
1KS22EC016	1KS21A1008	1KS22EC022
1KS22@C017	1KS21A1009	1K522EC023
1KS22EC018	1KS21AI010	1KS22EC024

ECE IV 'B' SEC=14 AIML IV =10 Total = 24 AIML II 'E' Sec=6 ECE II 'F' Sec=24 Total = 30

22 7 23 ACADEMIC COORDINATOR

Head of the Department Dept. of Mechanical Engg-K.S. Invalute of Technology Bengaluru - \$80 109.

PRINCIPAL

K.S. INSTITUTE OF TECHNOLOGY-BENGALURU - 580 109

#### K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109 Department of Electronics and Communication Engineering Attendance of IV 'A' for Second Internal Test (2022-2023)

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#### K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109 Department of Electronics and Communication Engineering Attendance of IV 'A' for Second Internal Test (2022-2023)

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# K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109 Department of Electronics and Communication Engineering Attendance of IV 'A.& R' for Second Internal Test (2022-2023)

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### K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109 Department of Electronics and Communication Engineering Attendance of IV 'B' for Second Internal Test (2022-2025)

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#### K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109 Department of Electronics and Communication Engineering Attendance of IV 'B' for Second Internal Test (2022-2023)

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SLN O	BEGISTER NO.	MATHS FOR COMMUNICA THON ENGINEERS (ZIECH)	DEGITAL SIGNAL PROCESSING (21EC 42)	CIRCUITS & CONTROLS & CHECUI	BIOLOGY FOR ENGINEERS (210E-PS)	COMMENSE ATION THE DRY (211.5 44)	CONSTITUTIONS OF INDIA AND PROFESSIONAL ETHIC SICIPY 21( 1947	UNIVERSAL III MAN VILLES (211 II-0)
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### K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109 SECOND INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER

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3E			

Degree :

B.E.

Branch - Stream : Course Title:

ECE Circuits & Controls

Duration :

60 Minutes

USN

Semester: 4th Course Type / Code : Core/21EC43

Date: 1st Aug 2023

Max Marks: 20

Note: Answer ONE full question from each part.

K-Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Applying, K5-Evaluating, K6-Creating

Q No.	Questions	Murks	co	K- Leve
	PART-A			1000
1(a)	Obtain transfer function for given signal flow graph	4	CO3	КЗ
(b)	Reduce the given block using block reduction technique and obtain transfer function	4	CO3	КЗ
(c)	Write differential equations for the network given below and find transfer function for the same	4	CO3	К3
	OR			
2(a)	Draw signal flow graph and obtain transfer function  (4)  (4)  (4)  (4)  (4)  (4)  (4)	4	соз	К3
(b)	Find the transfer function using block reduction method for the given block	4	CO3	К3

(c)	Write differential equations for the network given below and find transfer function for the same	4	co.	3 кз
	Voltages V. and V. at the sect 6 7		1	
3(a)	Voltages V <sub>1</sub> and V <sub>2</sub> at the port of a 2-port network are given by the equations V <sub>1</sub> =6I <sub>1</sub> +20I <sub>2</sub> V <sub>2</sub> =20I <sub>1</sub> +40I <sub>2</sub> Find ABCD & Y parameters	4	CO2	16
(b)	Check the stability of the given characteristic equation using Routh Hurwitz criteria S <sup>0</sup> +2S <sup>5</sup> +8S <sup>4</sup> +12S <sup>3</sup> +20S <sup>2</sup> +16S+16. Find roots on RHS, LHS and on imaginary axis.	4	CO4	К3
	OR  Determine the h parameter & Z parameter for the network given below			100
4(a)	V <sub>1</sub> See 1H  V <sub>2</sub> V <sub>3</sub> V <sub>4</sub> See 1H  V <sub>2</sub> V <sub>3</sub> V <sub>4</sub> See 1H  V <sub>2</sub> V <sub>4</sub> See 1H  V <sub>2</sub> See 1H  V <sub>3</sub> See 1H  V <sub>4</sub> See 1H  V <sub>5</sub> See 1H  V <sub>6</sub> See 1H  V <sub>7</sub> See 1H  V <sub>7</sub> See 1H  V <sub>8</sub> See 1H  Se	4	CO2	К3
b)	The polynomial P(s) = S <sup>2</sup> +4S+4. Using RH criteria determine the stability of the system and also determine roots lying between S=0 and S=-1 and  For the system with characteristic equation S <sup>4</sup> +22S <sup>5</sup> +10S <sup>2</sup> +S+K=0 find K <sub>max</sub> and 'w 'at K <sub>max</sub>	4	C04	КЗ

Name & Signature of Course In charge

Name & Signature of Module Coordinator

HOD ECE

Principal

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#### K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109 SECOND INTERNALTEST QUESTION PAPER 2022 - 23, EVEN SEMESTER

Set B

USN 1 K S E C

Degree Branch ; B.E.

**Electronics and Communication** 

Course Code: 21EC43

Semester: IVA & B

Engineering

Date: 1.8.2023

Course Title Duration

Circuits and Controls : 60 Minutes

Max Marks: 25

### Note: Answer ONE full question from each part,

Q No.	Question	Marks	CO mapping	K-Level
	PART-A			
1(a)	Identify and define control System? Distinguish between closed loop and open loop system with example.	5	CO3	Applying- K3
(b)	Make Use of Block diagram reduction techniques to find transfer function of given Block  Res  Res  Res  Res	5	CO3	Applying- K3
(c)	Make use of Mason Gain formula to find Transfer of the given SFG.	5	C03	Applying- K3
2(a)	Make use of differential model equation to find the transfer function of the given electrical Network . $ \begin{array}{c c}  & + & + \\ \hline  & R_1 & + \\ \hline  & V_o(s) & +$	5	CO3	Applying- K3
(b)	Make Use of Block diagram reduction techniques to find transfer function of given Block	5	CO3	Applying K3

	600 - 601 -			
(c)	Make use of Mason Gain formula to find Transfer of the given SFG.	5	СО3	Applying- K3
3(a)	Identify the T-parameters of the given Network	5	CO2	Applying- K3
(b)	Identify the stability of given Characteristic using Routh method S3+S2+S+4=0	5	CO4	Applying- K3
4(a)	Identify the H-parameters of the given Network	5	CO2	Applying- K3
(b)	Identify the stability of given Characteristic using Routh method S4+8S3+18S2+16S+5=0	5	CO4	Applying- K3

Christo (Sta-

Name & Signature of Course In charge

Name & Signature of Module Coordinator

HOD ECE

Principal





IV SEM

THIRD SESSIONAL TEST TIME TABLE (2022-2023) (EVEN SEMESTER 2023)

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DATE	TIME	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	COMPUTER SCIENCE & DESIGN	COMPUTER SCIENCE & ENGG	ELECTRONICS & COMMUNICATION ENGG	MECHANICAL ENGG
6/09/2023	9.30 AM To 10.30 AM	21C841 Mashematical Foundations for Computing	21CS41 Mathematical Foundations for Compating	21CS41 Mathematical Foundations for Computing	21EC41 Maths for Communication Engineers	21ME41 Complex Analysis. Profeshilley and Lineur Programming.
Wednesday	2:00 PM To 3:00 PM	21C842 Design and Analysis of Algorithms	210842 Draign and Analysis of Algorithms	21C842 Design and Analysis of Algorithms	21BC42- Digital Signal Processing	21ME42 Machining Science and Figs & Fisheres
7/09/2023	9:30 AM To 10:30 AM	21C943 Microcontroller and Embedded Systems	210543 Microcontroller and Embedded Systems	21C849 Microcontroller and Embedded Systems	218C43 Circuits & Controls	21ME43 Fluit Mechanics
Thursday	1:30 PM To 2:30 PM	218E45 Biology For Engineers	2 18845 Biology For Engineers	218845 Biology For Engineers	21RE45 Biology For Engineers	218645 Blokgy For Engineers
	9:30 AM To 10:30 AM	21C844 Operating Systems	210544 Operating Systems	21C344 Operating Systems	21EC44 Communication Theory	21ME44 Mechanics of Materiols
8/09/2023 Friday	1:30 PM To 2:30 PM	21CIP47 Constitution of India and Professional Ethics (CIP)	21KSK37/47 Samskrutiks Kantada / 21KBK47 Bulake Kananda	21K5K47 Samskrunka Kannada / 21KBK47 Balake Kannada	21CIP47 Constitution of India and Professional Ethics (CIP)	21K8K47 Samskritika Kannada / 21KBK47 Balake Kannada
	5 00 PM To 4:00 PM	21UH49 Universal Human Values	21UH49 Universal Haman Values	21UH49 Universal Human Values	21UH49 Universal Human Values	21UH49 Universal Human Values

Note : All the students are strictly informed to wear Lab uniforms, and college ID card is comput

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IV SEMESTER - 3rd CIE TEST INVIGILATION DUTY (2022-2023)

Date	Timings	NB 101	NB SH 303 (3rd Floor)	NB 104	NB 202	NB 283	NB SH 204 (2nd Floor)	NB 305	NB 301	MB 302	NR 364
6/9/2023	9:30 am to 10:20 am	BS (BS)	SS (AIML) SA (CSD)	MN (BS)	SIS (CSE)	RR (CSE)	SKB (ECE) AS (AIML)	SG (BS)	NP (AIML)	KBM (ECE)	BHA (ECE)
WEDNESDAY	2:00 pm to 3:00 pm	SG (BS)	RH (CSE) SKB (ECE)	GK (CSD)	MV (BS)	SGK (BS)	TR (BS) AP (ECE)	ALB (CSE)	SSB (CSE)	(ECE)	NP (AIML
7/9/2025	9:30 am to 10:30 am	SRC (RS)	RR (CSE) SCH (CSE)	SG (BS)	RH (CSE)	SD (CSE)	BHA (ECE) SA (CSD)	SKD (ECE)	(BS)	ALB (CSE)	SSB (CSE)
THURSDAY	1.30 pm to 2.30 pm	KBN (CSE)	AP (ECE) HU (ME)	KBM (ECE)	(ECE)	TML (ME)	RICM (AIML) LC (BS)	LN (ME)	GK (CSD)	LIKK (ALMIL)	(AIML)
	9:30 am to 10:30 am	KT (CSE)	UHA (ECE) RKM (AIML)	AP (ECE)	KBM (ECE)	PHS (CSE)	(AIML) HU (ME)	KBN (CSE)	(ECE)	GK (CSD)	LKK (AIML)
89QBI3 FRIDAY	1.30 pm to 2.30 pm	SSB (CSE)	NM (ME) LKK (AIML)	ALB (CSE)	SKB (ECE)	LN (ME)	SA (CSD) SG (RS)	NP (CSE)	SD (CSE)	TMI. (ME)	GK (CSD)
	3:00 pm to 4:00 pm	CJ (ECE)	SA (CSD) NP (ADML)	AS (AIML)	RKM (AIML)	RH (CSE)	(AIML) MS (BS)	KBM (ECE)	AP (ECE)	DHA (ECE)	PHS (CSE)

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Heat of the Department
Dept. of Mechanical Engl
K.S. Institute of Yechnology
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BENGALURU - 580 109,

IV SEMESTER
THIRD SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER)

#### BLACK BOARD

ROOM NO: NB LH 101 (1ST FLOOR)

		-103			
CS IV 'A'SEC	EC IV 'A'SEC	CS IA , V. SEC	EC IV 'A'SEC	CS IV 'A'SEC	EC IV 'A'SEC
1KS21CS001	1KS21EC001	1KS21CS007	1KS21EC007	1K521C5014	IK5216C014
1KS21CS002	1KS21EC002	1KS21CS008	1KS216C008	1KS21CS015	1K5Z18C015
1K921C5003	1K5216C003	1K521C5009	1KS21EC009	1KSZ1CS016	1KS21EC016
1KS21CS004	1KS21EC004	1K521C5010	1KS21EC010	1KS21C5017	1KS21FC017
1K521C5005	1KS21EC005	1KS21C5011	1KS21EC011	1KS21C5018	1KS21EC018
1KS21CS006	1KS21EC006	1KS21CS012	1KS21ECD13	1KS21CS020	1K52JEC019

CS 'A' SEC Total = 18 EC 'A' SEC Total = 18

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R.S. INSTITUTE OF TECHNOLOGY
BENGALURU - \$40 109

IV SEMESTER

THIRD SESSIONAL TEST SEATING ARRANGEMENT 2022-23 (EVEN SEMESTER)

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#### BLACK BOARD

ROOM NO: NB 109 SEMINAR HALL (1ST FLOOR)

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CS IV 'A'SEC	EC IV 'A'SEC	CS IV 'A'SEC	EC IV 'A'SEC	CS IV 'A'SEC	EC IV 'A'SEC
1KS21CS021	1K521EC020	1XS21CS031	1K921EC031	1KS21CS941	1832180042
1KS21CS022	1KS21EC021	1KS21CS032	1KS21EC032	1K521C5042	1K521EC043
1KS21CS023	1KS2150023	1KS21C5033	1KS216C033	1KS21CS043	1KS21EC044
1KS21CS024	1KS21EC024	1KS21CS034	1KS21EC035	1KS21CS045	1K5218C045
1K521C5025	1KS21EC025	1KS21CS035	1K921EC036	1K521C5046	1K521EC046
1K521C5026	1K521EG026	1K521C5036	1KS216C037	1KS21CS847	1KS319C047
1KS21CS027	1KS21EC027	1KS21CS037	1KS21EC038	1K521C5048	1KS21EC048
1KS21CS028	1KS21EC028	1KS21CS038	1KS21EC039	1KS21CS049	1KS21EC049
1KS21CS029	1K921EC029	1K521C5039	1KS21EC040	1KS21CS050	1KS21EC050
1KS21CS030	1KS21EC030	1KS21CS040	1K521EC041	1KS21CS051	1KS21EC051

CS 'A' SEC Total = 30

EC 'A' SEC Total = 30

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IV SEMESTER

THIRD SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER)

#### BLACK BOARD

ROOM NO: NB LH 104 (1ST FLOOR)

CS IV 'A'SEC	EC IV 'A'SEC	CS IV 'A'SEC	EC IV 'A'SEC	CS IV 'A'SEC	EC TV 'A'SEC
1KSZ1CS052	1K521EC053	1K521CS058	1KS21EC060	1KS22CS403	1KS21EC066
1KS21CS853	1K521EC054	1KS21CS059	1KS21EC061	1K522CS404	1K52)EC067
1KS21CS054	1KS21EC055	1KS21C5060	1×521€C062	1K522C5405	1K521EC06B
1K521C5055	1KS21EC056	1KS21CS119	1KS21EC063	1KS22CS408	
1KS21C9056	1×5216C058	1KS21C5120	1K521EC064	1KS22CS411	1KS22CS414
1K521CS057	1KS216C059	1KS22CS401	1KS21EC065	1KS22CS413	

CS 'A' SEC Total = 19 EC 'A' SEC Total = 15

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Head of the Experiment Dept. of Mechanical Edge K.S. Institute of Technology Bengaluro - 560 168 PRINCIPAL

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IV SEMESTER

THIRD SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER)

#### BLACK BOARD

ROOM NO: NB LH 202 (2ND FLOOR)

CS IV 'B' SEC	EC IV 'B' SEC	CS IV 'B' SEC	EC IV 'B' SEC	CS IV 'B' SEC	EC IV 'B' SEC
1KS21CS061	1KS21EC069	1KS21CS067	1K5Z1EC075	1KS21C5074	1<92100002
1KS21CS062	1KS21EC070	1KS21CS068	1K521#C076	1KSR1C5075	1KS21EC083
1KS21C5063	1KS216C071	1K521C5069	1K521EC077	1K521C5076	1KS21EC084
1KS21CS064	1KS21EC072	1KS21CS070	1KS21EC078	1KS21CS077	1K521EC065
1KS21C5065	1K521EC073	1KS21CS071	1K521EC080	1K921CS078	1KS21EC086
1K521C5866	1KS21EC074	1KS21CS072	1KS21EC081	1KS21CS079	1K521EC087

C5 'B' SEC Total = 18

EC 'B' SEC Total = 18

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#### IV SEMESTER

THIRD SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER)

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ROOM NO: NB LH 203 (2ND FLOOR)

EC IV 'B' SEC	CS IV 'B' SEC	EC IV 'P' CEC	CC TV IOI CC
1KS21EC088	1KS21CS086	1KS21EC095	1KS21CS092
1KS21EC089	1KS21CS087	1KS21EC096	1KS21CS093
1KS21EC090	1K521CS088	1K521EC097	1KS21C5094
1K\$216C091	1K521C5089	1KS21EC098	1KS21C5095
1K521EC092	1KS21C5090	1K321EC099	1XS21CS096
1KS21EC093	1KS21C5091	1KS21EC100	1KSZ1C5097
	1KS21EC089  1KS21EC090  1KS21EC091  1KS21EC092	1KS21EC088 1KS21CS086  1KS21EC089 1KS21CS087  1KS21EC090 1KS21CS088  1KS21EC091 1KS21CS089  1KS21EC092 1KS21CS090	1KS21EC088 1KS21CS086 1KS21EC095  1KS21EC089 1KS21CS087 1KS21EC096  1KS21EC090 1KS21CS088 1KS21EC097  1KS21EC091 1KS21CS089 1KS21EC098  1KS21EC092 1KS21CS090 1KS21EC099

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1K521CS092	1KS216C101
1KS21CS093	1KS21EC102
1KS21C5094	1KS21EC103
1KS21C5095	1KS21EC104
1XS21CS096	1K521EC105
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CS 'B' SEC Total = 18

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- BENGALURU - 500 109

IV SEMESTER

THIRD SESSIONAL TEST SEATING ARRANGEMENT 2022-23 (EVEN SEMESTER)

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1KS21C5098	1KS21ME001	1K521EC107	1KS21C5108	1KS21ME010	1KS21EC117	1KS22CS400	1K\$22EC406
1KS21CS099	1KS21ME002	1KS21EC108	1K\$21C\$109	1KS21ME011	1KS21EC118	1KS22C5402	1KS22EC407
1KSZICS100	1KS21ME003	1K521EC109	1KS21C5110	1KS22ME400	1KS21EC120	1K522C5406	1KS22EC408
JK521CS101	1K521ME004	1KS21EC110	1)(S21CS111	1×S22ME401	1KS21EC121	1KS22CS407	1KS22EC409
1K521C5102	1KS21ME005	1KS21EC111	1KS21CS112	1KS22ME402	1KS22EC400	1KS22CS409	1KS2ZEC410
1KS21CS103	1K\$21ME005	1KS21EC112	1KS21CS113	1KS22ME403	1KS22EC401	1KS22CS410	1KS22EC411
1KS21CS104	1KS21ME007	1KS21EC113	18S21C5114	1KS22ME404	1KS22EC402	1KS22CS412	1KS22GC412
18S21C5105	1K521ME008	1KS21EC114	1KS21CS115	1KS22ME403	1KS225C403	1KS22CS415	
1K521C5106	1K521ME009	1KS215C115	1KS21CS116		IKSZZEC404	1KS22C5416	
1KS21C5107		1KS21EC116	3KS21CS117		1K522EC405		

CS 'B' SEC Total = 29

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### K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109 Department of Electronics and Communication Engineering Attendance of IV 'A' for Third Internal Test (2022-2023)

SLA	REGISTER NO.	MATHS FOR COMMUNICA TION ENGINEERS (2HC41)	PROCESSING (21EC42)	CIRCUITS & CONTROLS (21EC40)	BIOLOGY FOR ENGINEERS (ZIBEO)	COMMUNIC ATION THEORY (215°C44)	CONSTITUTIONS OF INDIA AND PROFESSIONAL ETHICS (CIP) 21CPP	UNIVERSAL HUMAN VALUES (211-1147)
1	TKS21EC001	Asellya & 1	Modbya 181	hodby 3	Apollog By	Andria 8		Adup &
2	1KS21EC002	R. May K	R. Obligith.	n.march	a laster	Ales	1. Harris	A Alstray X
3	TKS21EC003	dbHek.	Shipl.	edblek.	dochek	ed bilete	do Here	hipeld
4	1KS21EC004	Alberto	ALLIAN	Although	Altell	Achilda	Altela	Audida
5	1KS21EC005	the the	dorth	Hay	Hayd	A Day	Al aund	I sul
6	1KS21EC006	Am	Am	Am	Ann	Ku	An	Am
7:	IKS21EC007	Albanto	Akthorb	Akmie	Aldri	Anna	Abeham	110hac
8	TKS2TEC008	Aragha	Anagha	B. Committee	Anagiva	The second second second	Annah	Aragha
9	IKS2IEC009	Buth.		Just	Burdle		Jundla	Constant
10	1KS21EC010		William D.		100000 25		4	dechana to
11	IKS21EC011	Axchan 19	1.1	Ardman -	Aulusi	Fichaum	TachaoM	Autor
12	1KS21EC013	Molagani	heloware	helesterit	del The Na	of the state of	Kleysoff.	1 design
13	1KS21EC014	Ashan sa	mhuman	Ahoim	Ashans	Asharia		Sharkse
14	IKS2IEC015	There !	4	Feet !	6+	Lent	23	f of
15	1KS21EC016	Mana (	Done (	town (	Jayen 1	Sasa	Top	Para
16	1KS21EC017	anger	Engor !	angon	^	annow	Annan	(Propos
17	1KS21EC018	Bhauya-K	Bhavya 8	Bhavyor	Bhayan	Phovy	Blavyak	Bhanga)
18	IKS21EC019	×4	200	XX	A.	X	A L	1-4 H
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Department of Electronics and Communication Engineering Attendance of IV 'A' for Third Internal Test (2022-2023)

econ	m No: NR LH H	14				7-1		
NLN 0	REGISTER NO.	MATHS FOR COMMUNICA TION ENGINEERS (200(41)	DEGITAL SIGNAL PROCESSING (2H-C42)	CONTROLS (DECO)	BIOLOGY FOR ENGINEERS (ZHE45)	ATION THE DRY (21EC 44)	CONSTITUTIONS OF INDIA AND PROFESSIONAL EXHIUS (CIP) 21C1F47	HOMAN VALUES (21EB/9)
1	1KS21EC053	An	An	A	Ano	si	Arr	Any
2	1KS21EC054	Mes.	Nua!	mel	Mi	Nu	Nu-	24-
3	1KS21EC055	Nayour	Markeners	NUL	100	Dayrias	Naygooc	NO.
4	1KS21EC056	0	Marlame	MANOZ	Manay	phones	- do	www
5	1KS21EC058	Ponto NE	(MKOH.N.E	Omko O. N. B	Dukan	thuba No	Dookas N.B	1 NO 11-8
6	1KS21EC059	RO	Pale	las	Kol.	82	Soul	Sale
2	1KS21EC060	ranty.	mosuly	probable 1	manufey	Monity.	projectly .	Novieta
8	1KS21EC061	Poola R	PoojaR	Poojo R	Poda R	Pooja P	POOJAR	Poola R
9	1KS21EC06Z	Profesto)	Burnous D	Bayworks	Bestor D	Barrold	Proposal P	Batter C
10	1KS21EC063	Prajula	Projugh hy	Prajudes	Prof wally	propulso	Arginal. Gov	Poringla.V
11	1KS21EC064	Q.	W	8h	Val.	94	22	SV.
12	1KS21EC065	badjuma	police	TO SHAME IS	Brokers	للسيسلة	Palasila	major 10
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14 1KS21EC067 Toward Mask Ways Though Marson 1KS21EC068 Prothing Preethant freethen 6 9 23 6/9/23 DATE 2023 8 9 2023 9/2 NO. OF STUDENTS 15 15 15 PRESENT NO. OF STUDENTS 00 -00 -ABSENT 00 NAME OF INVIGILATOR Marriatty & Could Kall of Shothy SIGNATURE OF INVIGILATOR

#### K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109 Department of Electronics and Communication Engineering Attendance of IV 'B' for Third Internal Test (2022-2023)

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# K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109 Department of Electronics and Communication Engineering Attendance of IV 'B' for Third Internal Test (2022-2023)

Room	a No: NB LH 20.	Attendance	e of IV 'B'	for Third	Internal 3	Fest (2022-	2023)	
SLN O	REGISTER NO.	MATHS FOR COMMUNICA TION ENGINEERS (21FC41)	DEGITAL SIGNAL PROCESSING (2FEC 42)	CHICUITS & CONTROLS (21EC43)	BIOLOGY FOR ENGINEERS (21BE48)	COMMUNIC A FIGN THEORY (2) EC 44)	CONSTITUTIONS OF INDIA AND PROFESSIONAL ETHICS (CIP) 21CIP47	UNIVERSAL HUMAN VALUES (210H49)
1	1KS21EC088	Letter	Litte	Postle	Zal	Lih	14	1.1
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4	1KS21EC091	1	\$	O)	AD	& warrant	Shothalt ru	The should to
5	1KS21EC092	Shell	SLAV	of av	0/7/1	0 W/	00	THE STATE OF
6	1KS21EC093	800	10	20	and a	XbA+	No.	Sold.
7	1KS21EC095	Spanish war	Smill	and a	de la	du	(du	000
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9	1KS21EC097	Knipodys	Chiping	A Julie	ON P PART	Wildliam !	Odaleshini 4	Simbolini 9
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17	1KS21EC105	Qualun	(Tueslant)	giahus &	And in contrast of the last of	Timura Timura	Mindus M	Harry.
18	1KS21EC106	1	-	0	100		and the second	lines of
DATE		6/9/12	6/9/2003	7/9/23	7/9/23			Manuary Color
O. OI	STUDENTS	18	15	18	555550	8923	819123	819/23
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### K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109 Department of Electronics and Communication Engineering Attendance of IV'B' for Third Internal Test (2022-2023)

Rnom No: NB 204 Seminar Hall

SLN O	REGISTER NO.	MATIES FOR COMMUNICA 110N ENCINEERS (2) (Cd)	DEGITAL SIGNAL PROCESSING (21EC42)	CIRCUITS & CONTROLS (2) EC40)	HOOLOGY FOR ENGINEERS (21HE45)	COMMUNIC ATION THEORY (218C44)	CONSTITUTIONS OF INDIA AND PROFESSIONAL ETILICS (FIP)	UNIVERSAL HUMAN VALUES (21EHIO)
1	1KS21EC107	THURLEY	Thealuy	Thouas	Megaller	-Theially	21 C1F47	-1
2	1K521EC108		Holetin		-	Control of Control of	Thefallar	Indiana.
3	1K521EC109	To the Experience	Clor	MH Flia	deles	Mal-take	14 tree	1400-
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5	1KS21EC111	11-1	VII I	Variable	Johnhan	NO WINDHA	Varianai BA	Michaelsa
6	1KS21EC112	Varidae	VE 1-0	17 100	NO	SIFF	Vitt	WA
7	1KS21EC113	Youhull	Volumes	Jang.	Voudra	Voulge	Takelas	Vousses
8	1KS21EC114	VULLY	Variables	Verynjak	Vonthos	Mosh w	Nonhors	Your had
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11	1KS21EC117	of the same	Victoria	Nager	Middle -	Might	- Notwick,	Viller
12	1KS21EC118	aming	vitageness	V Sycam	- Gill Gar	Stylins	Villy mysel	Vilgan
13	1KS21EC120		ambus	angel	antent	Canton	andres	arrent
14	1KS21EC121	Mishatan	HARAFAP	Y Talo	VYStation (a)	Whate A	What B	Wohater,
15	1KS22EC400	Drehad	THE RESERVE OF THE PARTY OF THE	E Xa Lu	1 Yoshun	Myss high	And North and	Brashoo
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### K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109 Department of Electronics and Communication Engineering

Room No: NB 303 Seminar Hall

SLN 0	REGISTER NO.	MATRIS FOR COMMUNICA FION ENGINEERS (2TECH)	DEGITAL SIGNAL PROCESSING (21EC42)	CIRCUITS & CONTROLS (21ECO)	BIOLOGY FOR ENGINEERS (210)E45)	COMMUNE ATION THEORY (21EC44)	ONSTITUTIONS OF INDIA AND PROFESSIONAL ETHICS (CIP) 21C1P47	UNIVERSAL BUMAN VALUES (2103149)
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#### K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109 THIRD INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER

SET: A

Degree

B.E

Branch-Stream : ECE Course Title :

Circuits & Controls 60 Minutes Duration

USN

40 Semester :

Course Type / Code : Core/21EC43

Date : 7th Sep 2023

Max Marks : 20

Note: Answer ONE full question from each part.

K-Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Mar	co	K- Level
1.101	PART-A			Byronyon
1(a)	Obtain the State model equation for the given electrical system  Note: Output is taken across capacitor  & Define State, State Vector, State variable & State transition matrix	•	CO5	ю
(b)	The open loop transfer function of a unity feedback system is $G(s) = \frac{1}{s((0.5s+1)(0.1s+1))}$ Draw Bode plot and find $W_{gc}$ , $W_{gc}$ , GM and PM comment on system stability	•	C05	к
(c)	Obtain the Root locus for the for the give transfer function $G(s)H(s) = \frac{R}{s((s+3)(s^2+3s+11.25)}$	•	cos	ю
	OR			
2(a)	Mention all the rules of root locus and obtain the root locus for the open loop transfer function $G(s)H(s)=\frac{R}{s((s+5)(s+10))}$ Find the range of K for system stability and K value for $\zeta=0.707$	4	C05	ю
(b)	Sketch Bode plot for the given $G(s)H(s)=\frac{1}{s((0.18+1)(0.05s+1))}$ . Find the value of K for gain margin of 10db.		C05	К3
(c)	Find the state transition matrix for $A = \begin{bmatrix} 0 & -1 \\ 2 & -3 \end{bmatrix}$ .	ï	cos	кз
1	PART -B			
3(n)	Obtain the time response of a second order system subjected to unit step input for under damped condition.	•	C04	ю
(b)	Obtain the close loop transfer function, damping ratio and output response for step input for the system given below $R(s)$ $C(s)$	ā	C04	ю
	OR			
4(a)	A second order system is given by $\frac{C(s)}{R(s)} = \frac{25}{S^2 + 6S + 25}$ . Find Rise Time, settling time Peak over shoot and Peak Time. Also find the output response $C(t)$ .	4	C04	К3
(b)	A system has 30% overshoot and settling time of 5 seconds for a Unit step input.  Determine  2nd order Transfer function  Peak time  3) Output response		C04	кз

Name & Signature of Course in charge:

Module Coordinator



#### K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109 THIRD INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER

SET: B

USN

Semester :

Degree Branch-Stream :

B.E

ECE

Course Type / Code :

Core/21EC43

Course Title : Duration

Circuits & Controls 60 Minutes

Date :

7th Sep 2023

Max Marks: 20

Note: Answer ONE full question from each part. K-Levels; K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Mar	co	K- Leve
	PART-A			
1(a)	Identify the state model of the given electrical network and find the output as current through resistor.	4	C05	63
(b)	Make use of open loop transfer function of a unity feedback system is $G(s)=\frac{80}{x((s+a))(s+a0)}$ Draw Bode plot and find $W_{xx}$ , $W_{yx}$ , $GM$ and $PM$ comment on system stability	•	C03	ю
(c)	Make use of transfer function $G(s)H(s) = \frac{k(s+2)(s+3)}{s((s+1))}$ and find the Root locus of given system.	36	005	кэ
2(n)	Mention all the rules of root locus and obtain the root locus for the open loop transfer function $G(s)H(s) = \frac{g}{s((s+3)(s^2+3s+11.2)^2}$	34	COS	K3
(b)	Sketch Bode plot for the given $G(s)H(s)=\frac{K}{s(s+2)(s+4)}$ . Identify the value of K for gain margin of 20db.	4	C05	кз
(c)	Identify the state transition matrix for $A = \begin{bmatrix} 1 & 0 \\ 1 & 1 \end{bmatrix}$ . & find the state model equation for the differential equation give below $\frac{d4y}{dt4} + 7 \frac{d3y}{dt3} + 8 \frac{d2y}{dt2} + y(t) = 3u(t)$	*	C05	ю
	PART-B			-
3(n)	Make use of second order system to Express rise time, peak time, peak overshoot, settling.  Time subjected to unit step input for under damped condition.	¥	C04	кз
(b)	Identify the close loop transfer function, damping ratio and output response for step input for the system given below $G(s) = 9/s(s+2)$	4	C04	К3
	OR			
4(a)	A second order system is given by $\frac{C(\varepsilon)}{R(\varepsilon)} = \frac{100}{s(\varepsilon+10)}$ . Identify Rise Time, settling time Peak over shoot and Peak Time. Also find the output response $C(t)$ .	•	C04	КЗ
(b)	Model transient characteristics of a control system to a unit step input and define the following i)delay time ii)rise time iii)peak are iv)peak overshoot iv)settling. Time	1	C04	КЗ

Course In charge:

Name & Signature of Module Coordinator



# K. S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109 DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING LESSON PLAN 2022-23 EVEN SEMESTER

COURSE INCHARGE

: BHANUMATHI A

COURSE CODE/TITLE

: 21EC42/ DIGITAL SIGNAL PROCESSING

YEAR/ SEMESTER/SECTION: II/IV/A

BRANCH

: ECE

SE. No.	Topic to be covered	Mode of Delivery	Truthing Aid	No. of Periods	Consolative No. of Periods	Proposed Date
	MODULE 1: Discrete	Fourier T	ransforms (D	FT)		
L	Discrete Fourier Transforms (DFT). Frequency domain sampling and reconstruction of discrete time signals	L-D	BB	1	1	17/03/23
2	The Discrete Fourier Transform	L-D	88	3	2	18/03/23
3.	DFT as a linear transformation	1.+1)	BB	1	3	19/05/23
4.	Properties of DFT-Linearity and problems in same	1.+11	FiB	- 1	4	22/05/23
5:	Properties of DFT-Periodicity	L+D	EB	1	5	24/05/23
6.	Properties of DFT-Symmetry properties	1.+D-	BB	1	- 6	25/05/23
7.	Problems on symmetry properties	L+D	FB	- 1	7	26/05/23
8.	Properties-Multiplication of two DFTs	L+D	195	100	8	29/05/23
9.	Problems on Multiplication properties	L+D	BB	1	9	31/05/23

10.	Circular convolution property	L+D	BB	1/	10	01/06/23
31.	Problems on Circular convolution property	L+D	BB	1	11	02/06/23
12.	Problems on Circular convolution property	1,40	DO		19:	05/06/23
110.04	MODULE 2: Linear Filter	ing method	is based on	the DFT		
13.	Additional DFT Proporties-Circular Time, Circular frequency shift	L+D	168	T.	13	67/06/23
14.	Problems on circular time shift and circular frequency shift.	E+D	88	-1	14	08/06/23
15.	Problems en circular time shift and circular frequency shift.	L+D	1185	1	15	09/06/23
16.	Farseval's Theorem	£+D	BB		16	10/06/23
17.	Use of DFT in linear filtering	L+D	BB		17	12/06/23
18.	Filtering of long data sequences	1.+D	BB	1.	18	14/06/23
19.	Fast Fourier Transform Algorithms	L+D	1001	1	19	15/90/23
-20.	Overlap-save problems	E+1)	BB :	45	20	16/96/23
21.	Overlap-add method problems	L+D		1	21	19/66/23
22.	Direct computation of DFT, need for efficient computation of the DFT (FFT algorithms)	LeD	BB	,	22	21/06/23
23.	Radix-2 FFT algorithm for the computation of DFT and IDFT—, decimation-in-time and decimation-in- frequency algorithms	L+D	III	ľ	73	22/06/2
24.	Problems on DIT FFT	L+D	80	1	24	23/06/2
25.	Problems on DIF FFT	L+D	BB	1	25	30/96/2
26.	Problems on DCLDIF FFT	L+D	161	1	26	03/07/2
	MODULE 3: D	esign of Fl		1	1000	
27.	Characteristics of practical frequency selective fixes	L+D	BB	1	27	05/87/2
29.	Symmotric and Anti symmetric FIR filters	L+D	BB	1	28	06/07/2

				0		
20.	Design of low pass FIR filter using Raciargular and Hamming Window	L+D	BB	1	29	87/87/23
30.	Design of law pass FIR filter using Hanning and bunies window	L+D	HH	- 1	30	08/07/23
ш	Design of high pass FIR fiber using Ructangular and Hamming window	L+D	BB	1	3)1	10/97/23
32.	Design of high pass FIR filter using Haming and Bartlett window	L+D	BB	1-	32	12/07/20
13.	Froblems on Hamming window	L+D	1813	1	33	13/07/22
34.	Problems on Hanning window	L±D	.813	1	34	14/07/23
35.	Problems on hartlett window	L+IV	88	1	35	17/07/21
16.	Structure for FIR Systems: Direct form	1.+15	303	1	36	19/07/23
37.	Cascade form structure	L+D	813	1	37	20/07/23
18.	Lattice structures	L/ID	88	1	38	21/07/21
-19.	Problems on FIR systems	1.40	98	1	39	24/07/23
40.	Problems on cascade and lattice structure		BB	1	40	26/07/23
	MODULE 4:	IIR Filter	Design			
41.	Infinite ampulse response filter format	L+D	BB	1.	41	27/07/23
42.	Bilinear transformation design method	L+D	BB	1	42	28/07/21
45.	Design of analog filters	L+D	190	1	41	03/08/23
++	Design of analog filters using low pass protetype transformation.	1.+D	BB	1.	44	94/06/23
45.	Design of Butterworth and chebyshev filters.	1.4PS	BB	1.	45	05/08/23
46.	Bilinear transformation	L+PS	BB	1	46	07/08/23
47.	Problems on Butterworth filters.	T+1)	SH	1.	47	09/08/23
48.	Problems onebebyshevfiletrs	LHFS	BB	1	48	10/08/23
49,	Problems on Impulse invariance	LHPS	BB	1	49	11/08/23
50.	Problems on Bilinear transformation	LiFS	1916	1	50	14/08/21
31,	Frequency wrapping	EHD.	911	1	31	16/08/23
52.		L+D	08	1	.52	17/08/25
33.	Realization of IIR filters in direct form I and II	1.+0	1311		33	18/08/23

54.	Problems on IIR Filter Structure	1:+P5	1913	1	54	19/08/23
	MODULE 5: Dig	ital Signal	Processors			
53	DSP Architecture	L+D	BB	1	55.	21/09/23
56.	DSP Hardware Units	E+D	BEL	1	56	23/98/23
57.	Fixed point fermat	1.+12	BB	1	57	24/08/23
58.	Problems on Fixed point format	L+D	BB.	1	58	25/09/23
59.	Floating point Format	Lin	1303	1	59	28/06/23
óō,	Problems on Floating point Format	E+D	BB	1	60:	30/09/2
61.	IEEE Floating point formats,	L+D	BB	1	63	31/08/2
62.	Fixed point digital signal processors	L+D	188	1	62:	01/00/2
63	Floating point processors	T+D	BB	1	63	02/09/2
64.	FIR filter implementations in Fixed point systems	LHD	BB	1	64	04/09/2
65.	HR filter implementations in Fixed point systems	E+D.	BB	1	65.	11/09/2
66.	Revision of module 1,2	L+D	BB	1	66	13/09/23
67.	Revision of module 3.4	L+D	BB	1.	67	14/09/2
68.	Revision of module 5	TI+D	BB	1	68	15/09/2
60.	Revision of University QP	E/D	DB	1	69.	16/09/23

- 1. Digital signal processing Principles Algorithms & Applications, Proakis&Monalakis, Pearson education, 4th Edition, New Delhi, 2007.
- Li Tan, Jean Jiang," Digital Signal processing-Fundamentals and Applications", Academic press, 2013, ISBN 978-0-12-415893

- Sanjit K. Mitra, "Digital Signal Processing, A Computer Based Approach", 4<sup>th</sup> Edition, McGraw Hill education, 2013
   Oppenheim &schaffer, "Discrete Time Signal Processing", PHI, 2003.
   D. GanestiRao and Vineeth F Gejri, "Digital Segnal processing" Cengage India Private Limited, 2017, ISBN '9386858231

Module coordinator

HOD-ECE

Principal



#### K. S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109 DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING COURSE PLAN 2023-23 EVEN SEMESTER

COURSE INCHARGE

: Dr P. N. Sudha

COURSE CODE/TITLE

: 21EC43/ Circuits & Controls

YEAR/ SEMESTER/SECTION: 2<sup>nd</sup>/4<sup>th</sup> /

BRANCH

: ECE

SL No.	Topic to be covered	Mude of Delivery	Teaching Ald	No. of Periods	Camulative No. of Periods	Proposed Date
		MODULE	0.1			
L	Types of Sources, Loop analysis & Problems for DC circuits	L4D	ВВ	1	3 0	17" May 2923
2	Loop analysis & Problems for DC circuits	L-D	BB	1	2	18 <sup>6</sup> May 2023
7	Loop analysis & Problems for AC carciats	L+D	DD	2	4	18th May 2023
4	Nodal analysis & Problems for DC circuits	E+D	BB	1	- 3	19" May 2023
-	Nodal analysis & Problems for AC circuits	1.+D	BB	2	7	22"May 2023
5	Concept of Super position theorem & Problems	L-D	RR	2	9	23 <sup>rd</sup> May 2023
0	Maximum Power transfer Theorem & Problems	L+D	BB	- 2	11)	24 <sup>th</sup> May 2023
7	Maximum Power transfer interiets & Problems	L+D	BB	2	13	25° May 2023
8	Concept of Theyenin's theorem & Problems	L+D	BB	- 2	15	25° May 2023
9	Concept of Norton's Theorem & Problems	L+D	BB	1	16	26 <sup>th</sup> May 2023
10	Solving Question pape: Problems & Pedagogy: Unit Test	10000		-		
		MODULI	2.2			
11	Two port networks: Short- circuit Admittance parameters	L-PS	ВВ	3	19	39* -May 2023 to 1* June 2023
12	Two port networks: Open-circuit Impedance parameters	L+D	BB	2	21	1" to 2" June 2023
12	Temenission parameters	L+D	BB	.2	25	5* -7* June 2023

14	Hybrid parameters	L+D	BB	2	200	Tark to the same
15	Laplace transform and its applications: Sten Ramo	L+D	BB	1	25	86 Jane 2023
-10	Impulse, Solution of networks using Laplace transform	100		3	28	9 <sup>n</sup> -12 <sup>n</sup> June 2023
16	Initial value Theorem	L+D	BB	2	30	14 <sup>th</sup> -15 <sup>th</sup> June2023
17	Final value Theorem	L+D	BB	1	31	16th June 2021
13	Solving Question paper Problems & Postagoga	- L+D	Dn	1	31	16" June 2023
-	T. C.	MODULE	3		- 21	1.0 June 2023
19	Types of control systems, effect of feedback systems, differential equation of physical systems	L+D	BB	4	35	22 <sup>nd</sup> -26 <sup>th</sup> June 2023
20	Introduction to block diagrams & to find transfer functions	L+D	BB	1	43	28th June-7th July 2023
1,1	Introduction to Signal Flow Graphs & to find transfer functions	L+D	7818	3	46	8° -12° July 2023
22	Solving Question paper Problems & Pedagogy			1	47	120 1.1. 2007
		MODULE	4	1	41	13th July 2023
13	Time Response analysis: Time response of first order systems.	L+D		2	49	13 <sup>6</sup> -14 <sup>6</sup> July 2023
14	Time response of second ordersystems: Steady State Analysis	L+D	BB	3	52	17th - 20th July 2023
25	Time response of second order systems: Transient Analysis	L+D	BB	5	57	21 <sup>4</sup> -27 <sup>h</sup> July 2023
6	Concepts of stability necessary condition for stability, Routh stability criterion,	L+D	BB	1	58	28° July 2023
7	Relative stability Analysis using RH criteria	L+D	BB	4	62	100 etc
		MODULE		-	0.2	3 <sup>60</sup> -5 <sup>th</sup> August 2023
8	Introduction the root locus concepts, construction of root loci	L+D	88	4	66	76 -195 Aug 2023
9	Introduction to state variable analysis: Concepts of state, state variable and state models.	L+D	BB	4	70	11 <sup>6</sup> -17 <sup>6</sup> Aug 2023
0	State model for Linear continuous - Time systems	L-D	BB	-		
	Solution of state equations.	L-D	BB	2 2	72	18 <sup>8</sup> -19 <sup>6</sup> Aug 2023
1	Control to State September	40.40	0.00	2	74	21" -23" Aug 2023
2	Frequency Domain analysis and stability using Bode plot Solving Question paper Problems & Pedagogy	L+D	BB	8	82	24th Aug - 5th Sep 202

W

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#### Text Books:

- 1. Engineering circuit analysis, William H Hayt, Jr. Jack E Kenamerly, Steven M Durbin, Mc Graw Hill Education, Indian Edition 8e.
- Networks and Systems, D Roy Choudhary, New age international Publishers, second edition.
   Network Analysis, M E Van Valkenburg, Pearson, 3c.

0

- 4. Control Systems Engineering, I J Nagrath, M. Gopal, New age international Publishers, Fifth edition.

#### Reference Books:

Control System Engineering, Nagrath & Gopal Details for Teaching Aids:

- 1. Black Board
- 2. Laptop, LCD Projector

# Web links and Video Lectures (e-Resources): • https://nptel.ac.in/courses/108106098 • https://nptel.ac.in/courses/108102042

Signature of Course In charge

Signature of Modele Coordinator

Signature of HOD





#### DEPARTMENT OF ELECRONICS & COMMUNICATION ENGINEERING

NAME OF THE STAFF

: SATISH KUMAR B

SUBJECT CODE/NAME : 21EC4L/COMMUNICATION THEORY

SEMESTER/YEAR/SEC - IV/ II/ A

ACADEMIC YEAR

: 2022-23

SL No.	Topic to be covered	Mode of Delivery	Teaching Aid	No. of Periods	Cumulative No. of Periods	Proposed Date (B)
1	Introduction	L	BB+P	1	11.	17/85/23
2	Time & Frequency Domain	L	BB+P	1	2	18/05/23
	description, Switching modulator,	L	BB+P	1	3	22/05/23
3 4	Envelop detector.	L	BB+P	1	4	23/05/23
5	DOUBLE SIDE BAND-SUPPRESSED CARRIER MODULATION: Time and Frequency Domain	t.	BB+P	1	5	24/05/23
6	DOUBLE SIDE BAND-SUPPRESSED CARRIER MODULATION: Time and Frequescy Domain	L	BB+P	1	6	25/05/23
7	description, Ring modulator.	L.	BB+P	1	7	27/05/23
8	Coherent detection.	L	BB+P	1	8	29/05/23
9	Costas Receiver, Quadrature Carrier Multiplexing	L	86+P	1	-9	30/05/23
10	SINGLE SIDE-BAND AND VESTIGIAL SIDEBAND METHODS OF MODULATION: SSB Modulation.	1	BB+P	1	10	31/05/23



11	VSB, Modulation, Frequency Translation	L	BB+P	-1	11	01/06/23
000	Frequency Division Multiplexing.	L	BB+P	1	12	05/06/23
13	Example: VSB, Transmission of Analog and Digital Television	L	BB+P	1	13.	6/06/23
	MODULE 2: A	NGLEN	(OBULATION	V.		
	Technique Common Medicinion	L	BB+P	1 1	14	7/06/23
14	Basic definitions, Frequency Modulation: Narrow Build FM, Wide Band FM.	1	BB+P	1	15	\$/06/23
15		- 5	1000		16	10 /06/23
16	Narrow Band FM, Wide Band FM, Transmission bondwidth of FM Signals,	1	88+P	1	17	12/06/23
17	Transmission bonowidin in the Signature				18	13 /06/23
18	Transmission bandwidth of FM Signals.  Generation of FM Signals, Demodulation	L	BB+P	1	19	14.06/23
20	of FM Signals.  FM, Surge Multiplexing, Prace-Locked Loop:	J.	BB+P	1	20	15/06/23
21	Nonlinear model of PLL, Linear model of PLL	E.	BB+P	1	21	-22 /06/23
100	Nonlinear Effects in FM Systems.	-	BB+P	1	22	24/06/23
22	The Super heterodyne Receiver	L	BB+P	10	23	26/06/23
		DULE 3:1			24	27/06/23
24	NOISE: Shot Noise, Thermal noise, White Noise, Noise Equivalent Bandsvidth.	L	BB+P	1	0.0	-
25	Noise Equivalent Bandwickh.	L	BB+P	1	25	28 /06/23
26	and the second s	L.	BB+P	1	26	6 /07/23
-	Noise in DSB-SC receivers, Noise in AM	L	BB+P	1	27	10/07/23
27	receivery. Threshold effect		BB+P	1	28	11/07/2
	Noise in EM receivers Capture effect.	L	BRALL			
28	Noise in FM receivers, Capture effect,		BB+F	1	29	12/07/2
	Noise in FM receivers, Capture effect, Noise in FM receivers, Capture effect,	L L		1	29 30	12/07/2 13/07/2 17/07/3

11	VSB, Modulation, Frequency Translation	L	BB+P	1	11	(1)/06/23
	Frequency Division Multiplexing.	L	BB+P	1	12	05/06/23
2	Example: VSB, Transmission of Analog and Digital Television	L	BB+P	1	13.	6/06/23
	MODULE 2: A	NGLEN	ODULATION	ą.		
	Basic definitions, Frequency Modulation:	1	BB+P	1 1	14	7/06/23
4	Narrow Band FM, Wide Band FM.	L	BB+P	1	15	8/06/23
5	Narrow Band FM, Wide Band FM,	-			16	10/96/23
10	Transmission hundwidth of FM Signals.	1 5	BB+P	1	17	12/06/23
17	Transmission bandwidth of FM Signals,		1000		18	13.306/23
19	Generation of FM Signals, Demodalation of FM Signals,	L	BB+P	- 1	19	14./06/23
20	FM, Stereo Multiplexing, Phase-Locked Loop:	L	HR+P	1	20	15/06/23
21	Nonlinear model of PLL, Linear model of PLL.	6.	BB+P	1	21	22 /06/22
22	Nonlinear Effects in FM Systems.	1	BB+P	1.3	22	24/06/23
23	The Super heterodyne Receiver	L	BB+P	- 1	23	26 /06/23
24	NOISE: Shot Noise. Thermal noise, White	OULE 3:1	NOISE BB+P	i	24	27 /06/2
G)b	Noise, Noise Equivalent Bondwidth.		100		25	28 /06/2
25	Noise Equivalent Bandwidth.	I.	DD/P	1	25	6 /07/23
26	NOISE IN ANALOG MOBULATION: Introduction, Receiver Model,	1.	BB+P	1	26	27(6.77)
27	Noise in DSB-SC receivers, Noise in AM receivers, Threshold effect	L	BB-P	1	27	10/07/2
28	Noise in FM receivers. Capture effect,	- 1.	BB+P		28	11/07/2
	Noise in FM receivers. Capture effect,	L	BB+P	1	29	12/07/2
715			The second of th	1.	30)	13/07/2
30	Capture effect, FM threshold effect,	L	BB+P	1.0	31	17/07/2

33 P 34 L 35 R 36 T	M threshold reduction, Preeruphasis and De-emphasis in FM As-emphasis in FM MODULE 4:SAM Petroduction, Why Digitize Analogy Sources? The Law pass Sumpling process Pulse Amplitude Modulation.	L L PLING AN	BB+P	1 1 ATION	32 33 34	18/07/23 19/07/23 26/07/23
33 P 34 L 35 R 36 T	Accemphases in FM  MODULE 4:SAM introduction, Why Digitize Analogy Sources? The Low pass Sumpling process Pulse Amplitude Modulation.	L PLING AN	BB-P D QUANTIZ/	- MARION	34	26/07/23
35 H S 36 T	MODULE 4:SAM introduction, Why Digitize Analogy Sources? The Low pass Sumpling process Pulse Amplitude Modulation.	PLING AN	D QUANTIZ/ BB+P	- MARION		
36 T	reroduction, Why Digitize Analogy Sources? The Law pass Sumpling process Pulse Amplitude Modulation.	L	BB+P	ATION 1	35	22/07/23
36 T	Sources? The Low pass Sumpling process Pulse Amplitude Modulation.	1,144	OF SECURE	1	35	22/07/23
	Amplitude Modulation.	The second	4			-3810.00
. 2		1000	BR+P	1	36	24/07/2
	The Low pass Sampling process Pulse Amplitude Modulation.	L	DB+P	1	37	25/07/2
38 7	Time Division Multiplexing	12	BB+P	1	38	26/07/2
30 T	Time Division Multiplexing				39	27/07/2
40 P	Pulse-Position Modulation	1.	BB+P	1	40	3/08/23
41 (	Separation of PPM Waves	112	-0000000		41	4/08/23
42. €	ieneration of PPM Waves	E.	BB+F	1	42	6/08/23
43 E	Detection of FPM Waves	12:	BB+P	1	43	7/08/23
44 1	Detection of PPM Waves	L	BB+P	-1	-44	\$/08/23
45 P	woblems	1.	BB+P	-1	45	9/08/23
46 P	problems	- 1	BB+P	1	46	10/08/2
	Module 5: SAMP  SAMPLING AND QUANTIZATION): The Quantization Random Process	LING AN	D QUANTIZA BB+P	TION)	47	14/08/2
	The Quantization Random Process	910	BB+P	1	48	16/08/2
4/10/40/	voblems	1.	BB+P	1	49	17/08/2
77 A	Quantization Noise	L	BB+P	1	50.	19/08/2
	Quantization Noise	L	BB+P	1	-51	21/08/2
	Pulse-Code Modulation: Sampling	1	BB+P	1	52	21/08/2
	Pulse-Code Modulation: Sampling	1	BB+P	1	53	23/08/2
-	Austrization, Encoding, Regeneration	1	BB+P	1	54	2408/23
Charleston Co.	Quantization, Encoding, Regeneration	1	BB-P	1	55	28/08/2

	Constitute Barranamian	1 1	BB-P 1	56	29/08/23
56	Encoding, Regeneration	1	BB-P 1	57	30/08/23
57	Encoding, Regeneration	1	BB+P 1	58	31/08/23
58	Decoding, Filtering	1 2	BB-P 1	59	2/09/23
59	Decoding, Filturing	-	BB-P	60	4/09/23
60	Filtering, Multiplening, Delta Modulation	- 1	13400	61	5/09/23
61	Filtering Multiplexing Delta Modulation	1	BB+P		14/89/23
62	Problems	L	BB+P	62	- Contractor - Con
63	Problems	1.	BB+F	63	16/09/23

Signature of Course Incharge

Signature of Module Coordinator

Signature of HOD





## KS INSTITUTE OF TECHNOLOGY, BANGALORE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

NAME OF THE STAFF

: Dr. REKHA, N

SUBJECT CODE/NAME

: ISEC61/DEGITAL COMMUNICATION

SEMESTER/YEAR

: VLA/III

ACADEMIC YEAR

: 2022-2023

SL No.	Topic to be covered	Mode of Delivery	Teaching Aid	No. of Periods	No. of Periods	Proposed Date
	MODULE 1: Bandpass	Signal to Ec	quivalent Low	pass:		
1	Pandpass Signal to Equivalent Lowpass: Introduction	14D	BH	1		20/9/23
2	Hilben Transform and problems	L+D+PS	BB.	1	3	21/3/23
1	Pre-envelopes, Complex envelopes	LtD	BB	1	3.	23/3/23
4	Canonical representation of bandpess signals	L+D	BB	1	-4:	25/3/23
3	Complex low pass representation of bandpass systems and systems	L+D	BB	1	5:	27/3/23
6	Line codes: Unipolar, Polar, Bipolar, Manchester code	L+D	BB	t	6	28/3/23
7	Unipolar & their spectral densities	L+D	BB.	1	7	29/3/23
8	Polar, Bipolar (AMI) & their spectral densities	t,+D	BB	1	8	30/3/23
9	Munchester code & their spectral densities	L+D	BB	1	9	1/4/23
10	Overview of HDB3, B3ZS, B6ZS	L+D+PS	BB	1	10	4/4/23
	MODULE 2: Signa	ling over A	WGN Channe	lx.		
11	Signaling over AWGN Channels- Introduction	1.+13	333	1	114	5/4/23
12	Geometric representation of signals	L+D	BB	1	12	6/4/23

13	Gram-Schmidt Orthogonalization procedure	L+D	BB:	11	13	10/4/23
14	Conversion of the continuous AWGN channel into a vector channel	L+D	BH	1	14	11/4/23
15	Optimum receivers using coherent detection: MI. Decoding	1+D	BB	1	15	12/4/23
16	Correlation receiver	L+D	BB	1	16	13/4/23
17	matched filter receiver	L+D	835	1	17	15/4/23
18	Numerical Problems	L+D+PS	BB	1	18	20/4/23
-	MODULE 3: Digit	al Modulation	Techniques	N		
19	Digital Modulation Techniques Phase shift Keying techniques using otherest detection:	L+D	8B	1	19	24/4/23
20	generation, detection and error probabilities of RPSK	L-D	188	1	20	25/4/23
21	generation, detection and error probabilities of OPSK	L+1)	нв	1	21	26/4/23
22	Numericals		DB		22	27/4/23
23	generation, detection and error probabilities of M- ary PSK	L+D	BB	1	23	2/5/23
24	generation, detection and error probabilities of Mary QAM	L#D	BB	1	2.4	3/5/23
25	Frequency shift keying techniques using Coherent detection: BESK generation, detection and error probability	L+I)	нв	1	25	4/5/23
26	M-ary PSK <sub>3</sub> M-ary QAM	L+D	BB	1	26	\$/5/23
27	OPSK probability Error	L+D	BB		27	9/5/23
28	Non coherent orthogonal modulation techniques: BFSK & probability of error,	L+D	ВЗ	Î.	28	10/5/23
29	DPSK Symbol representation, Block diagrams treatment of Transmitter and Receiver, Probability of error (without derivation of probability of error equation)	L+D	BB	T.	29	11/5/23
30	Numerical Problems on Coherent Detection	L+D+PS	BB		39	15/5/2

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	tachniques					
31	Nomerical Problems on BPSK_FSK	L+D+PS	BB	1	31	16/5/23
5Z	Numerical Problems on QPSK,DPSK	L+D+P3	BB	1	32	17/5/23
	MODULE 4: Communicati	ion through Ba	nd Limited C	hannels		
33	Communication through Band Limited Channels: Digital Transmission through Band limited channels:	L+D	ВВ	-1	33	18/5/23
34	Digital PAM Transmission through Band limited Charmels	L+D	BB	1	34	24/6/23
35	Signal design for Band limited Channels: Design of band 5 limited signals for zero ISI-The Nyquist Criterion (statement only)	L+D	ВВ	1	35	27/5/23
36	The Nyquist Criterion (statement only)	L+D	BB	1	36	1/9/23
37	Design of hand limited signals with controlled FSI- Purtial Response signals	L+D	HIL	1	37	5/6/23
38	Probability of error for detection of Digital PAM: Probability of error for detection of Digital PAM with Zero ISI	1,+D	BB	1	38	8/6/23
39	Symbol by Symbol detection of data with controlled ISI	1.+D	88	1	39	7/6/23
40	Channel Equalization: Linear Equalizers (ZFE, MMSE)	L+D	BB	1	40	8/6/23
41	Adaptive Equilizers	L+D	DB:	1	41	19/6/23
42	Numerical Problems	L+D+PS	BB	1	42	12/6/25
	MODULE 5: Prin	ciples of Sprea	d Spectrum			
43	Principles of Spread Spectrum: Spread Spectrum Communication Systems: Model of a Spread Spectrum Digital Communication System.	L+D	ВВ	1	43	13/6/23
44	Direct Sequence Spread Spectrum Systems	L+D	88	1	44	14/6/23
45	Effect of De-spreading on a namewhand Interference	L+D	ВВ	- (1	45	15/6/23
46	Probability of error (statement only),	L+D	BB	1	46	19/6/23
47	Some applications of DS Spread Spectrum Signals	L+D	BB	- 1	47	20/6/23

48	Generation of PN Sequences	L+D	BB	1 7 1	48	21/6/21
49	Frequency Hopped Spread Spectrum	L+D	BB	1 1		
50	CDMA based on IS-95	L+D		1	49	22/6/23
51	Numerical Problems on PN sequence	The state of the s	BB		20	24/6/23
52	Revision of Module 1	L+D+P8	311	1	51	26/6/23
51	Revision of Module 2	L+D	BB	1	.52	27/6/23
54	- Control of the Cont	L+D	BB	1	- 53	28/6/23
54	Revision of Module 3	L+D	BB		54	6/7/23
55	Revision of Module 4	L+D	BB	1	55	8/7/23
56	Revision of Module 5	L+D	BB	1	36	10/7/23

#### Text Books:

- Simon Haykin, "Digital Communication Systems", John Wiley & sons, First Edition, 2014. ISBN 978-6-471-64715-5
- Z. John G Product and Masoud Salehi, "Fundamentals of Communication Systems", 2014 Edition, Pearson Education, ISBN 978-8-131-70573-5.

#### Reference Books:

- B.P.Lathi and Zhi Ding, "Modern Digital and Analog communication Systems", Oxford University Press, 4th Edition, 2010, ISBN: 978-0-198-07380-2.
- Ian A Glover and Peter M Geant, "Digital Communications", Penrson Education, United Edition, 2010, ISBN 978-0-273-71838-7.
   John G Proakis and Masoud Salehi, "Communication Systems Engineering", 2nd Edition, Pearson Education, ISBN 978-93-323-5513-6.

#### WEB Materials:

- nptel ac in/courses/117105077/pdf-m-7/m7138.pdf
- mptel.ac.lin/courses/117105077/20
- https://www.tutoriafspoint.com/digital\_communication/index.htm

Course In-charge Do . Rekha . N

Module Coordinator

Signature of HOD-ECE

Skyroa v





#### K S INSTITUTE OF TECHNOLOGY BANGALORE DEPARTMENTOFELECRONICS & COMMUNICATION ENGINEERING

#### COURSE PLAN

NAMEOFTHESTAFF : Dr. B Sudarshan

COURSE CODE/NAME : 18EC62/EMBEDDED

SYSTEMSSEMESTER/YEAR : Vi/III (A Section)

ACADEMICYEAR

2022-2023

SLNn	Topic to be covered	Mode of Delivery	Teaching Aid	No. of Periods	Complative No. of Periods	Proposed Date
	MODULE I	ARM -32 bit M	icrocontroller			
T.	Thumb-2 technology and applications of ARM	THD	LCD/B6	1	-1	20-3-23
3	Architecture of ARM Cortex M3	L+D	LCD/BB	3	2	23-3-23
3	Vorious Units in the architecture	L+D	LCD/BB	- 3	1	24-3-23
4	Debugging support	L+D	LCD/BB	1	4	27-3-23
3	General Purpose Registers	L+D	LCD/BB	1	2	29-3-23
6	Special Registers	L+D	FCD/BB	1	0	30-3-23
7	Operation modes	L/D	LCD/BB	1.5	7	33-3-23
8	Exceptions, interrupts	L+D	LCD/DB	1		5-4-23

9	Stack operation	L+D	LCD/88	1.	9	6-4-21
0	Reset sequence	L+D	LCD/BB	1	10	10-4-23
	MODULE 2 ARM	cortex M3 In	struction set an	i Program	oning	
11	Assembly basics	(,+1)	LCD/BB	1	11	12-4-23
12	Instruction list and description	L+D	LCD/B6	1	12	13-4-23
13	Instruction list and description	1.+D	LCD/BB	1	13	20-4-23
14	Thamb and ARM instructions	L+D	LCD/BB	1	.14	21-4-23
13	Special instructions	£+D	LCD/BB	1.	15	24-4-23
10	Useful instructions	L+ti	LCDVBR	1	16	26-4-23
17	Assembly and Clanguage Programming	1.+0	LCD/BB	1	17	27-4-23
18	Assembly and Clanguage Programming	L+D	LCD/9B	1.	18.	28-4-23
10	Assembly and Clanguage Programming	L+D	LCD/88	1	29	29-4-23
20	CMSIS	L+D	LCD/BB	1.	20	3-5-23
	MODUL	E 3 Embedde	d System Comp	ouents		
21	Embedded Vs General computingSystem	1,+10	TUDBB	1	21	4-5-23
22	Classification of Embedded systems,	1,+10	LCD/88	1	22	5-5-23
20	Major applications and purpose of ES, Elements of Embedded System	L+D	LCD/8B	1	23	8-5-23
24	Differences between RISC and CISC, Harvard and Primeton, Big and Little Endian formats	L+D	LCD/BB	1.	24	10-5-23
25	Memory(ROM and RAM Types)	E+D:	LCD/BB	1	25	11-5-23
26	Sensors, Actuators	L+D	LCD/BB	1	26	12-5-23

27	Opt coupler, Relay, Piezo burzer, Push button switch	L#D	LCDMBR	.1	27	13-5-23
28	Communication Interface (on-board and external types),	L+D	LCD/BB	1	21	15-5-23
29	IZC, SPI, I/DA	L+D	LCD/BB	1.	.29	17-5-23
30.	Stockeris, Zigber and WI-IT	L+D	LCD/BB	1	36	16.5.23
	MODULE 4 Ember	ided System	Design Concep	ts		
31	Characteristics and Quality Attributes of Embedded Systems	£+D	LCD/BB	L	31	(9,0.23
32	Operational and non-operational quality anti-bates	L+D	LCD/BB	I,	32	25-5-23
33	Embedded Systems-Application and Domain specific	L+D	LCD/BB	D.	33	26-5-23
34	Hardware software Co- design and program	L+D	LCD/BB	1/-	34	1-6-23
35	Hardware software Co- design and program modelling	L+D	LCD/BB	1	35	2-5-23
16	Embedded firmware design and development - Embedded firmware design Approaches	L+D	LCD/B3	1.	36	5-6-23
37	Embedded firmware Development	L+IX	LCD/BB	1	-37	7-6-23
18	Embedded firmware Development	110	LCD/BB	- 1	38	8-6-23
59	Embedded firmware Development	L D	LCD/BB	- 1	39	0.6.23
40	Embedded firmware Development	L+D	LCD/BB	1	40	10-6-23
		DULE 5 Op	erating System			
41	Operating System busies, Types of operating systems	L+D	LCD/BB	1	-41	12-6-23
42	Task, process and threads	L+D	LCD/BB	1	42	14-6-2
13	Thread pre-emption, Pre-emptive Task scheduling techniques	L+D	LCD/BB	1	43	15-6-23
44	Task Communication, Task synchronization issues - Racing and Deadlock	L+D	LCD/BB	15	44	16-6-2

45	Concept of Binary and counting sentapheres (Mutas example without any program).	L+0	LCD/98	T	45	19-6-23
46	How to choose an RTOS Integration and sesting of Embedded hardware and firmware	L+D	LCD/88	1	46	21-6-23
47	Embedded system Development Environment	L+D	LCD/BB	1.	47	22/6-23
48	Block diagram (excluding Keil), Disassembler/decompiler, simulator	L+D:	LCD/BB	1	48	23-6-23
49	emulator and debugging techniques	L+D:	LC0/BB	7	49	30-6-23
50	emulator and debugging techniques	L+D	LCD/BB	1	50	6-7-23
51	Revision	D+D-	LCD/BB	1	53	7-7-23

Course Incharge

Module coordinator

PRINCIPAL



## CA. S. INSTITUTE OF TECHNOL CAY BANGALORE



## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

NAME OF THE STAFF DR. CHANDA V REDDY

SUBJECT CODE/NAME - SBEC63 MICROWAVE THEORY AND ANTENNA.

SEMESTER/YEAR

: VI / III

ACADEMIC YEAR

: 2022-2023

SL No.	Topic to be covered	Mode of Delivery	Teaching Aid	No. of Periods	No. of Periods	Proposed Date
	MOI	JULE 1: Mic	rowave Tube	9		
t	Microwave Transmission Lines: Transmission Line equations and solutions with problems	L+D	DB	1	1	20/3/2023, 23/3/2023, 28/3/2023,24/3/2023
2	Reflection Coefficient and Transmission Coefficient with Problems	L+D, PS	BB	3	4	27/3/2023, 29/3/2023, 30/3/2023,
1	Standing Wave and Standing Wave	L+D	BB	1	5	30/3/2023,
4	Smith Chart - problems	L+D, FS	BB, PPT	2	7	31/3/2023,1/4/2023,
-5	Single Stub matching problems	L+D, PS	80, PPT	- 1		5/4/2023
6	Microwave Tutes: Microwave Frequencies, Microwave devices, Microwave Systems,	L+D	BB, PPT	1	. 9	6/4/2023
7	introduction Refer Klystron oscillator	L+D	BB, PPT	3	12	6/4/2023
8	Mechanism of Oscillations	L+D	BB, PPT	1	13	10/4/2023
9	Modes of Oscillations, Mode Curve   Qualitative Analysis only)	1.+D	BB, PPT	2	15	12/4/2021
		E 2: Microw	ave Network t	heary		
9	Introduction, Symmetrical 2 and Y-Parameters for Reciprocal Networks	L+D, PS	BB	1	16	13/4/2023
10	5 matrix representation of Multi-Port Networks	L-D	вв	2	1.8	13/4/2023, 15/4/2023
11	Properties and Comparison of S matrix with Z	LaD	BB	1 1	19	20/4/2023

	and Y matrices								
12	Microwave Passive Devs: Coexiel Connectors and Adapters	L+b	BD, PPT	1.	2)	20/4/2023			
13.	Attenuators, Phase Shifters	L+D	BB, PPT		21	31/1/2023			
14	Waveguide Tees - ETEE	L+D	BB, PPT	1	22	24/4/2023			
15	HITEE	L+D	BB, PPT	1	23	26/9/2023			
116	Magic tees	E+D	EB, PPT	1	24	27/4/2023			
		Module 3:	April 2 part of the second	-		Eri di access			
10	Introduction, Micro Strip lines,	L+D, PS	BB, PPT	T	25	27/4/2023			
- 20	Parallel strip-lines	L+D, P5	HB, PPT	1	26	28/4/2023			
-21	Coplanar strip lines, Shielded strip Lines	L+D	BB, PPT	1	27	29/4/2023			
22	Antenna Basics: Introduction, Basic Antenna Parameters	L+D, PS	BB, PPT	1	28	3/5/2023			
. 23	Patterns, Beam Area, Seam Efficiency	L+D	BB, PPT	- 1	29	4/5/2023			
24	Radiation Intensity	L+D, PS	BB, PPT		30	4/5/2023			
25	Directivity and Gain, Antenna Apertures	L+D, PS	BB, PPT	1	H	5/5/2023			
26	Effective Height	L+D, PS	BB, PPT	1	32	8/5/2023			
27	Radio Communication Link	L+D, PS	BB, PFT	1	31	10/5/2023			
28	Problems	L+D, PS	BB, PTT	1	34	11/5/2023			
29	Antenna Field Zones	L+D, PS	BB, PPT	- 2	36	11/5/2023, 12/5/2023			
Module 4: Point Sources and Arrays									
30	Introduction, Point Sources	L+D	BB	1	32	13/5/2023			
31	Power Patterns, Power Theorem	L+D, PS	BB	1	38	15/5/2023			
32	Radiation Intensity, Field Patterns, Phase Patterns	L+D, P8	88	1	39	17/5/2023			
93	Arrays of Two Isotropic Point Sources	L+D	88	1	40	18/5/2023			
34	Pattern Multiplication	L+D, PS	BB	1	41	18/5/2023			
33	Linear Arrays of n isotropic Point Sources of aqual Amplitude and Spacing	L+D, PS	BB	1	42	19/5/2023			
16	Electric Dipoles: Introduction, Short Electric Dipore	L-D	BB	- 4	43	25/5/2023			
27	Fields of a Short Dipole (General and Far Field Analysiss)	L+D, PS	BB	1	44	25/5/2023			
38	Radiation Resistance of a Short Dipole	L+D	BB	1	45	26/5/2023			
39	Thin Linear Antenna (Field Analyses)	L+D	88	1	46 /	1/6/2021			
40	Radiation Resistances of Lambda/2 Antenna	L+D, PS	88	1	47	1/6/2023			

	Module 5: L	cop and Ho	m Antenna 10-5	20	-	
41	Introduction, Small loop	L+D, PS	BB, PPT	1	48	2/6/2023
42	Comparison of Far fields of Small Loop and Short Dipole	L+D	BB, PPT	1	49	5/6/2023
43	The Loop Antenna General Case	1.40	BB, PPT	-1	30	7/6/2023
44	Far field Patterns of Circular Loop Antenna with Uniform Current	L+D	BB, PPT	1	51	8/6/2023
45	Radiation Resistance of Loops	L+D, PS	BR, PPT	1	52	8/6/2023
46	Directivity of Circular Loop Antennas with Uniform Current	L+D, PS	BB, PPT	1_	53	9/6/2023
47	Hurn enternes: Rectangular Horn Antonnas	L+D, 98	BB, PPT	1	54	10/6/2023
48	Antenna Types: Helical Antenna	L+D, PS	BB, PPT	1	55	12/6/2023
49	Helical Geometry	L+D, PS	BB, PPT	1	56	14/6/2023
50	Practical Design Considerations of Helical Antenna	L+D, PS	BB. PPT	1	57	15/6/2023
31	Yagi-Uda array	L+D	BO, PFT	- 1	51	15/6/2023
52	Parabola General Properties	L+D	BB, PFT	- 1	59	19/6/2023
53	Lag Periodic Anterna	L+D	BB, PFT	1	60	19/6/2023
-	Revision Mod 1	D	BB, PFT	1	.61	21/6/2023
54	NAME OF THE PARTY	D	BB, PFT	1	62	22/6/2023
55	Revision Mod 2		BB, PFT	-	63	22/6/2023
56	Revision Mod 3	D	TO CONTRACT			23/5/2023
57	Revision Mod 4	D	BB, PTT	1	64	
58	Revision Mod 5	D	BB, PPT	L	65	30/5/2023

Text Books:

Microwave Engineering - Armapuras Das, Stair K Das, TMH, Publication, 2nd, 2010.
 Microwave Devices and circuits- Samuel V Liao, Pearson Education
 Antennas and Wave Propagation- John D. Krauss, Ronald J Marhefka, Ahmad S Khan, 4th Edition, McGraw Mill Education, 2013.

Details of the teaching aids: 1. BB - Black Board

2. PPT Power Point Presentation

3. PS - Problem Solving

Module coordinator





#### K. S. INSTITUTE OF TECHNOLOGY BANGALORE DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING LESSON PLAN 2022-23 EVEN SEMESTER

COURSE INCHARGE

: Dr. Surekha Borra

COURSE CODE/TITLE

: 18E/C646/ Python Application Programming : 4/6 / A

YEAR/SEMESTER/SECTION: 4

BRANCH : ECE

SL No.	Tapic to be delivered	Mode of Delivery	Teaching Aid	No. of Periods	Cumulative No. of Periods	Proposed Date
		Module 1: INTRO	DOUCTION			
1	introduction: Why should you team to write programs? Computer hardware auditosture	IAD	HS-PDT	1	1	30/3/73
2	Terminology: Interpreter and compiler, programs, building blocks, Debugging	LID	88+PP7	1	2	31/2/28
1	Variables, expressions, and statements	140	BU-PPT	1	3	23/3/23
4.	Variables, expressions, and statements	LHD	BOHPPT		4	54/3/23
5	Variables, expressions, and statements: Exercises	LiD	BB+PPT	-1	3	25/3/28
0	Variables, expressions, and statements: Exercises	L+D	BB+PPT	-1	6	27/3/23
7	Conditional execution	(+D	BBVPPT	1	7	28/3/23
8	Conditional execution: Exercises	1.40	BB4PPT	1	8	10/9/23
9	Functions	1.40	894PP1	1	9	31/3/23
30	Tunctions: Exertises	LiD	BB+PPT	-1	10	1/4/21
-71	2110101110000000111	Module 2: ITE	RATIONS	111 10	N Yes In	
31:	Resido	LiD	BB+#PT	1	12	4/4/23
12	Iteration: Exercises	LFO	BB+PPT	1	12	9/4/23
13:	5tring:	(40)	883+777	1	13	10/4/23
14	Strings: Exercises	L+D	EBHAPT	1	14	11/4/23
15	Strings: Exercises	LiD	BB+PPT	1	35	13/4/29
16	Files	I,tD	(BE+7FT	1	16	15/4/23

37	14-1		and the second		17	16/4/22
18	Files: Escreises	(+D	EB+PPT	1	18	20/4/23
29	Files; Exercises		11/2/19/2	1	19	21/4/23
	Maria de la companya del companya de la companya del companya de la companya de l	Module	3:11575		770	700,000
20	ten.	1+0	88+863	1	20	24/4/23
21	Lists: Exercises	(+0)	884864	1	21	25/4/21
22	Lists: Exercises	1+0	BBAPPT		12	27/4/23
28	Dictionaries	(+0)	BBAPFT	1	22	28/4/23
24	Dictionaries: Exercises	1+0	BB-PPT	-	24	29/4/23
25	Dictionaries Exercises	1+0	BB+PPT	1	25	2/5/28
26	Tuples.	1+0	BBFPFT	1	26	4/5/23
27	Tiggles: Exerções	ieli	38+977	1	27	5/5/23
28	Regular Expressions	1+0	BB+PFT		28	8/5/23
29	Regular Expressions: Exercises	1+0	88+PFT	- 1	29	W5/23
	10-20-20-20-20-20-20-20-20-20-20-20-20-20	The second secon	ES AND OBJECTS	-	43	W3(2A
30	Classes and objects	1+0	RR-PUT	9 T	36	33/5/22
31	Classes and objects	1+0	SBIPPT	1	39	12/5/23
32	Classes and objects: Bonchas	L+D	26+297	1	52	13/5/20
33	Classes and Functions	049	98+597	1	53	15/5/23
34	Classes and Functions Exercises	1+D	56-FFT	1	14	16/5/23
35	Classes and Methods	1+0	58-PPT	1	55:	38/5/23
36	Classes and Methods: Exercises	1+0	58HEVT	1	36	19/5/28
	V	Module 5: NETWO	RKED PROGRAMS	7	77.	447-57-84
37	Networked programs	1+0	38-PPT	1	37	22/5/23
38	Networked Programs: Exercises	1.40	DE-PPT	1	38	23/5/23
39	Using Web Services	L+D	38-PPT	1	39	25/5/23
60	Using Web Services: Exercises	L+D	38-PFT	1	40	26/5/23
41	Lising Web Services: Exercises	1+0	BR-PFT	1	41	27/5/23
42	10-2				42	30/5/23
43	Using databases Secretors	1+0	AB-PFT	7	43	1/0/23
44	Using databases Exercises	LeD	SB-PFT	1	44	2/6/23
45	SOL	LHD	BB+PFT	1	45	5/6/23
46	SQL Exercises	1+0	BB+PFT	1	46	WW/23
47	Additional Exercises	LeD	DB-PFT		47	A/6/23

OI.	Additional Elemists	LiD	BBADDT		45	6/6/23
43	Additional Districts	1.00	BE-FFT	1	49	12/6/22
50	Additional Exercises	1.40	DEFFET	1	50	15/8/22
11	Additional Europes	5.40	REHERT	1	51	15/6/21
50	Additional Exercises	640	BB+PPT	1	52	15/6/23
53	Additional Exercises	5+0	H6+PPT	1	53	19/6/21
54	Mini-Project Presentations	1.+0	BE+FFT	1	54	25/6/23
55	Mini Project Presentations	5+0	HE+FFT	1	\$5	32/6/23
56	Mini-Project Presentations	(+D	HD+FPT	1	56	21/6/21
57	Mini-Project Presentations	L+0	HD+PPT	1	57	24/6/23
59.	Mini-Brojett Presentations	LeD	BENT	1 .	58	36/6/21
59	Mini-Project Presentations	L+D	BE+PPT	1	:50	27/6/21
60	Mice Project Presentations	£+D	BD-PPT	1.	50	30/6/23
61	IAII		The state of the s		61	4/7/21
102	Mini-Project Presentations	1.40	BD+IPT	I	52	6/7/23
62	Min-Project Presentations	L+D	HE+PPT	1	63	1/7/23
64	Mini-Project Presentations	L+0	IID+PPT	1	64	10/7/21

#### Textbooks:

- Charles R. Szeverznos, "Python for Everybody: Exploring Oata Using Python 3", 1 Edition. Crosse Space Independent Publishing Planform, 2016 (Chapters 1 13, 15).
   Allen B. Doley, "Think Python: How to Think Like a Computer Scientist". 2n Edition. Green Tea Press. 2015 (Chapters 15, 16, 17).
- Reference Books:
- Mark Lett "Programming Python", 4th Edition, O'Reilly Media, JOSS SBN 23978-0350332873.
   Wesley J Chun, "Core Python Application: Programming", 3rd Edition, Pearson Education India, 2015. SBN 13: 978—881255555.
   Reema Thansje, "Python Programming using problem scheing approach", Defend university press, 2017.

#### Web Materials:

- W1 https://spectac.bs/corres/106/06/45/ W2 https://spectac.bs/corres/117/06/10/34 W3 https://spectac.bs/corres/106/05/16/26

Details of the teaching aids:

Black Soard and Power Point Presentations, Python IDE, Jupyter Notsipook

Course Incharge

Medule Coordinator

PRINCIPAL





## K S INSTITUTE OF TECHNOLOGY BANGALORE

## DEPARTMENT OF ELECRONICS & COMMUNICATION ENGINEERING

NAME OF THE STAFF

: BHARGAVI ANANTH

SUBJECT CODE/NAME: : 18ME653/SUPPLY CHAIN MANAGEMENT

SEMESTER/YEAR/SEC : VI/ III/A&B

ACADEMIC YEAR : 2022-23

St. No.	Topic to be covered	Mode of Delivery	Teaching Aid	No. of Periods	Cumulative No. of Periods	Proposes Date
	MODULE 1: 1	ntroduction: S	opply Chain			
(	Fundamental	L	p	- 1		20/3/20
1	Evolution	1.	P	-1	2	21/3/23
3	Role in Enonomy	L	P		1	24/3/23
4	Importance	1	P	1	-4	27/3/23
3	Decision Phases	1	. 2	1	3	28/3/23
0	Supplier Manufacturer Customer Chain	L	P	1	6	29/3/23
2	Earblers/Drivers of supply chain performance	1.	P	1	7	31/3/28
8	supply chain strategy	Li.	p	1		1/4/23
0	supply chain performance measures	L	P	1	0	4/4/23
10	Case Study	I.	P	- 1	10	5/4/23
11	Examples	L	II.	- 1	11	10/4/23

MODULE 2: Strategic Sourcing Outsourcing

17	Strategic Sourcing - Introduction	L	9		100	I sand
13.	Make vs Bey	1.	-	1	12	11/4/23
14	Mentifying Core processes	· F	p.		13	12/4/21
15	Market vs Hierarchy	L	p	1	14	15/4/21
6	Make vs Buy continuum	L	p	1	15	23/4/23
7	sourcing steafegy		P	1	10	24/4/23
R	supplier selection and contract acgoritation	- 1	19		17	25/4/23
9	creating a world class supply base			1	18	25/4/23
0	supplier development	- W	P		19	28/4/21
T	world wide sourcing.	-	P	1	2.0	20/4/23
2	Case Study	L.	P	1	21	2/5/23
20		-			22	3/5/23
1	Module 3: Warehouse Management as Warehouse management Stores management — Introduction	L	P		23	5/5/23
4	stores systems and procedures	1	P		24	23500
5	meeting materials cunital - stores accounting and stock venification obsolete	L	P	1	25	9/5/23
6	surplus and scrap value analysis	1	p		24	30/5/23
7	material landling transportation and traffic restragement	L	p	1	21	12/5/28
	operational efficiency	i.	P	1	- 21	400000
4	productivity - cost effectiveness	1.	- 1	1	29	13/5/23
1	performance measurement	T.	P	1	30	15/5/23
i.	Supply Chain Network Distribution Network Design   - Role - factors influencing options	t.	P	i	31	14/5/23
13	value addition - distribution strategies		p	1	32	1440
,	models for facility incation and especity allocation.  Distribution Centre Location Models	D.	r	1	33	22/5/23
	Module 4: Supply Chain	Network C	primization s	Indels		
	Supply Chair Nerwork Optioszation Models -	1	P	1	34	23/5/23

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44	A					
33	Impact of Uncertainty on Network Design	-	P		35	24/5/23
16	Network Design decisions using decision free	1.	P	L	36	25/5/23
17	Network Design decisions using decision tree	1.	P	1	37	27/5/29
38	Pluming demand	1.	31	1	38	27/4/38
39.	multiple item		P	1.	30	1/6/23
40	multiple location inventory management	1		1	40	5/6/23
41	pricing management	L	P	1	41	6/6/23
12	Revenue management		P		42	7/6/23
43	Case Study	L	100	1	41	5/6/23
44	Examples	-10	P	1 1	41	10/6/23
166	Supply Chain Integration	1	79	- 1	4.5	12/6/25
47		- 4			46	13/6/23
_	Building partnership and trust in supply claim.	li li	P		47	14/6/25
48	Value of information: Bullwhip effect	L	₽.	1 1	48	16/6/23
10	Effective Forecasting - coordinating the supply chain.	L		1	49	19/6/23
50.	Supply Chain restructuring	1.	P	1	50	20/6/21
51	supply chain mapping – supply chain process restructuring	le:	to.	-1	51	21/6/23
12	postpone the point of differentiation	L	Tr.	1	52	23/6/21
93	IT in Supply Chain - Agile Supply Chains	L	P	1	50	24/6/21
54	Roverse Supply chain, Puttre of II in supply chain		P		54	30/6/23
55	E-business in supply chain	1	- 31	1	-56	7/7/23

Signature of Course Incharge

Signature of Module Coordinator

Signature of HOD/ECE





### K. S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109 DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING COURSE PLAN 2022-23 EVEN SEMESTER

COURSE INCHARGE

: Mrs.V.SANGEETHA

COURSE CODE/TITLE

: 18EC81/Wireless and Cellular communication

YEAR/ SEMESTER/SECTION: IV/VIII/A

BRANCH

: ECE

SL No.	Tupic to be covered	Mede of Delivery	Teaching Aid	No. of Periods	Comulative No. of Periods	Proposed Date
	MODULE 1:	Mobile Radio	Propagation		150 W. L. Clinds	Ones
1	Mobile Radio Fronzgation - Large Scale Path Loss - Free Space Propagation Model	L+D	88	1	1	13.02.2023
2	Relating Power to Electric Field, Three Basic Propagation Mechanisms - Reflection (Ground Reflection) Diffraction, Scattering	L+D	188	1	2	13.02.2023
3	Practical Lins Budget, Fading and Mukipath — Broadband wireless channel	L+D	BB	1	3	14.02.2023
4	Delay Spread and Coherence Bandwidth, Doppler Spread and Coherence Time	L+D	88	1	A	14.02.2023
5	Angular sgread and Coherence	E+D.AV	BBLCD			-
6	Distance Statistical Channel Model of a Broadband	1+0	The second secon		5	20:02:2023
8	Fading Channel	471	EB	-	- 0	20.02.2023
7	The Cellular Concept - Cellular Concept	115000				
X.	Analysis of Celkslar Systems	L+D,AY	BB,LCD		7	21.02.2023
0	Sectoring	L+D	88	10	8	21.02.2023
10	Problems	L+D	88	1	9	77.02.2023
-	Productive	L+PS	88		10	27.02.2023

	MODULE 2:	GSM and TDN	fA Technology			
11	1 - SAN STATES OVERVIEW Introduction	L+D	The second leading to			
12	USM Chairnel Concent	Lep	86		11	28 07 702
14	USM Channel Concept	L+D	BB		12	28.02.202
15	GSM System Operations	L+AV	LCD	1	11	06.03.202
	GSM System Operations	L+D	BB		14	06.03.202
16	GSM Identities	L+D	-	1	15	07.03.202
17	Isternal Assessment-I	14-10	BB	1	16	97.03.202
18.	Infrastructure Communications (Um Interface)	L+D	64		17	13.03.262
19	I registers and System Architecture	L+D	BB	1	18	14.03.2023
20	C3M System Operations		00		19	14.83.2023
21	Traffic cases, GSM	L+AY	LCD.		20	20.03.2023
	A CONTROL OF	L+AV	LCD	1	21	20.63.2023
22	CDMA System Over view-Introduction	C3: CDMA Tee	churology			1 2009, 2023
73	CDMA Network and system Architecture	L+AV	LCD		22	T 04 60 0400
24	CDMA Basics	L+D.	BB		23	21.03.2023
25	CDMA Basics	I+AV	1.CD	1	24	21.03.2023
76	CDMA Channel Concepts	L+D	BB	1		27.03.2023
27	CDMA Channel Concepts	L+D	Bit	1	25	27.03.2023
28	CDMA System Concepts	L+D	BB	1	26	28,63,2023
	CDMA System(Layer 3) operations 3G CDMA	L+D	BR		27	28.03.2023
-	MOD	ULE 4: LTE -			28	04.04.2023
29	INC. CORDER FOR L. LE 4G - OF TIME	L+D I				
30	SC-FDE, SC-FDMA	The second secon	88	- 1	29	04.04.2023
31	Clannel Dependent Multioser Resource Scheduling	LIAV	LCU	1	30	10.04.2023
32	STATES STATES I STATES AND A SELECTION OF THE STATES AND ASSESSMENT OF THE STATES ASSESSM	L+D	LCD,BB	1	31	10.04,2023
33	1. TC (Verwork Architecture	LHAV	LCD	1	32	11.04.2023
34	Internal Assessment-2	L+D	BB	1	33	11.04.2023
35	Multi-Carrier Modulation - Multicarrier concepts	1			34	17.04.2021
36	OFDM Basics, OFDM in LTE	L+D	- 00	1	35	
37	Timing and Frequency Synchronization	L+D	BB		36	24.04.2623
38	Peak to Average Ration	L+D	BB	1	17	24.04.2023
20	SC-Proquency Domain Equalization, Competational	L+D	88	1	38	25.04.2023
-	Complexity Advantage of OFDM and SC-FDE	LAD	80	1		25.04.2023
	and a company and a C-1-Dill	-	-		39	02.05.2623

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40	LTE - 4G DEDM 5 4 FD FF0 MODU	LE 5: LTE -	4G			
10	LTE - 4G DFDMA and SC-FDMA, Multiple Access for OFDM Systems, OFDMA, SCFDMA	L+AV,D	LCO,BB			
	multiplier Diversity and Connetted at a			1	40	92.05.202
41	The second state of the contract of the contra	LHAV	LCD		255//	94-03-292
-	Constituent Librer.		2005W	4	99	0.0000000000000000000000000000000000000
0	The LTE Standard - Introduction to 1 Th	and the same		-	43	68.05.202
(I	Thenirefried Chappel Spateting of FTV	L+AV	LCD	1	-	1 1 2 2 3 3 5 5 7
14	Downlink OFDMA Radio Resources, Uplink SC-FDMA	L+AVD	LCD.BB	1	42	08.05.202
	Radio Resources Colink SU-FDMA	L+D	BB	1	43	09.05.2021
(f	Internal Assessment-3			1	44	09.05.2023
					45	11.05.2021

#### Text Books:

- Fundamentals of LTE Artraabha Gisosh, Jan Zhang, Jefferey Andrews, Riaz Mohammed, Pearson education (Formerly Prentice Hall, Communications Engg and Emerging Technologies), ISBN 13; 978-0-13-703311-9.
- Introduction to Wireless Telecommunications Systems and Networks, Gary Maller, First Edition, Congage Learning India Pvt Lat., 2006.

#### Reference Books:

- i. "Wireless Communications: Principles and Practice" Throdore Rappaport,2<sup>ne</sup> Edition. Prentice Hall Communications Engineering and
- 2. LTE for UMTS Evolution to LTE -Advanced \* Harri Holma and Antii Toskala, Second Edition-2011\_John Wiley & Sons, Ltd. Print

### Details for Teaching Aids:

1. Black Board

2 Laptop, LCD Projector

V-S-11 Course In-charge

Module coordinator

HOD-ECE

HEAD OF THE DEPARTMENT Cept of Electronics & Commercedor Size K.S. Institute of Technology Bengaluru - 580 109

PRINCIPAL. K.S. INSTITUTE OF TECHNOLOGY BENGALURU - 560 109.





## K S INSTITUTE OF TECHNOLOGY BANGALORE DEPARTMENT OF ELECTONICS AND COMMUNICATION ENGINEERING

## COURSE PLAN EVEN SEM-2022-23

NAME OF THE STAFF

: Mr. Saleem S Tevaramani

SUBJECT CODE/NAME

: ISECS23/ RADAR ENGINEERING

SEMESTER/SEC

: VIII /A:

ACADEMIC YEAR

: 2022-2023

SL No.	Topic to be covered	Made of Dollvery	Traching Aid	Ns. of Periods	Cumulative No. of Periods	Proposed Date
11.00	Module -1: Busics of Radar	& Simple	form of Rada	er Equati	on	
1	Basics of Radar: Introduction, Maximum Unarabiguous Range	L+AY	LCD	1	1 -	13/02/2023
2	Radie Waveforms, Definitions w.r.t pulse woreforms PRF, PRI, Duty Cycle,	L+D	LCD +BB	- 1	. 2	13/02/2022
3.	Peak Transmitter Power, Average Transmitter Power	L+D	LCD+BB	1	3	14/62/202
4	Simple form of Radar Equation	L+D	LCD+BB	1	4	14/02/202
5	Radar Bleck Diagram & Operation	L+D	LCD+BH		5	20/02/202
6	Radar Frequencies	1.00	LCD+BB		6	20/02/202
T	Applications of Radur, The Origins of Radar	1,+11	LCD+BB		7	21/02/202
8	Problems	L+D	LCD+BB	1	9	21/02/202
-0.	Problems	L+D	LCD+BH	1	9	27/02/202
	Module -2: The Radar Equation	on & Rud	ur Cross Sect	ion of Ta	rgets	
10	Prediction of Hader Range Performance	L+D	LCD+BH	- 1	10	27/02/202
11	Detection of signal in Noise, Minimum Detectable Signal Receiver Noise, SNR	L+D	LCD+BB	1	11	28/02/202

12	Modified Radar Range Equation	L+D, PS	LCD+BB	1	12	28/02/202
13	Envelope Detector - False Alarm Time & Probability, probability of detection	L+D, PS	LCD+BB	1	13	06/03/202
14.	Richar Crass Section	L+D, PS	LCD +BB	7	14	06/03/202
15	Simple Targetsi-sphere, cone sphere	L+D, PS	LCD +BB	1		
16	Transmitter Power, PRF & Range Ambiguities	L-D. PS	LCD+BB		15	07/03/202
17	System Losses	L4D	LCD+BB	-	17	07/03/202
18	Problems	L+D	LCD +BB	-	18	20/03/202
	A CONTRACTOR OF THE CONTRACTOR	40.70	20 Carlot 147 T-5-25	4		20/03/2022
19	Module -3: MTl & Pulse Dopp		& Digital M	II Proces	sing	
19	Introduction, Principle, Doppler Frequency Shift	L+D	LCD =BB	1	19	21/03/2023
20	Simple CW Rachr, sweep to sweep subtraction Delay Line Canceler	L+D	LCD+BB	1	20	21/03/2023
21	MTI Radar with Power amplifier transmitter, Delay line canceler	1.+0	LCD +BB	1	21	27/03/2022
12	Frequency Response of single delay line, blind speeds, clutter attenuation	L+D	LCD+BB	1	22	27/03/202
33	MTI improvement factor	1.+15	LCD +BB	1	23	28/03/2023
24	N pulse delay line canceler	·L+D	LCD +BB	-	24	28/03/202
25	Digital MT1 Processing: Blind Phases, I & Q channels,	L+D	LCD +88	1	25	04/04/202
26	Digital MT/ Doppler signal Processor	Len I	1.CD -BB	-	26	nam c man
27	Moving Target Detector, Original MTD	L+D	LCD +B0	1	27	10/04/2023
	Module -4: Tracking I	Radar & S		ilina.	47.	100092023
28	Types of Roder tracking systems	L+AV	LCD +BB	mag	40	110000000
SIT	Monopulse tracking- Amplitude Comparison	LIVER	LCD+BB		21	10/04/2023
29	Monopulse (1D)	L+D	ELD +BB		29	11/04/2023
10	Moropulse (2D)	L+D	LCD+BB	1	30	11/04/2023
31	Phase comparison Manapulse	L+D	LCD +BB		31	
32	Sequential Lobing	L+D	LCD +BB		32	24/04/2023
33	Concal Scan Tracking Rudar	1+D	LCD -BB		33	14/04/2023
34	Tracking in Range, Comparison of trackers	L+D	LCD +BB	-	34	25/04/2023

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35	Functions of the Radar Antenna	L+AV	LCD+BB	1	35	02/05/2021
36	Antenna Parameters	L+D	LCD+BB	1	35	02/05/2021
37	Electronically steered phased array autennas	L+D	LCD+BB		37	68/05/2023
35	The Radar Receiver, Receiver Noise Figure	L+D	LCD+BB	1	38	08/05/2023
29	Superheterodyne receiver, Daplexers	L+D	LCD +BB	1	30	09/05/2023
40	Receivers Protectors	1.60	LCD+BB	1	-40	09/05/2023
41	Question Paper discussion	L+0	LCD +BB	1	41	13/05/2023

#### Text Book:

Introduction to Radar Systems- Merrill | Skolink, 34, TMH, 2001

#### Reference Books:

Radar Principles, Technology, Applications – Byton Edde Pearson Education, 2004.
 Radar Principles – Pechles, Jr. P.Z. Wiley, New York, 1998.
 Principles of Moders Radar. Basic Principles – Mark A. Ekhards, James A. Scheer, William A. Holm. Yesdee, 2013.

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