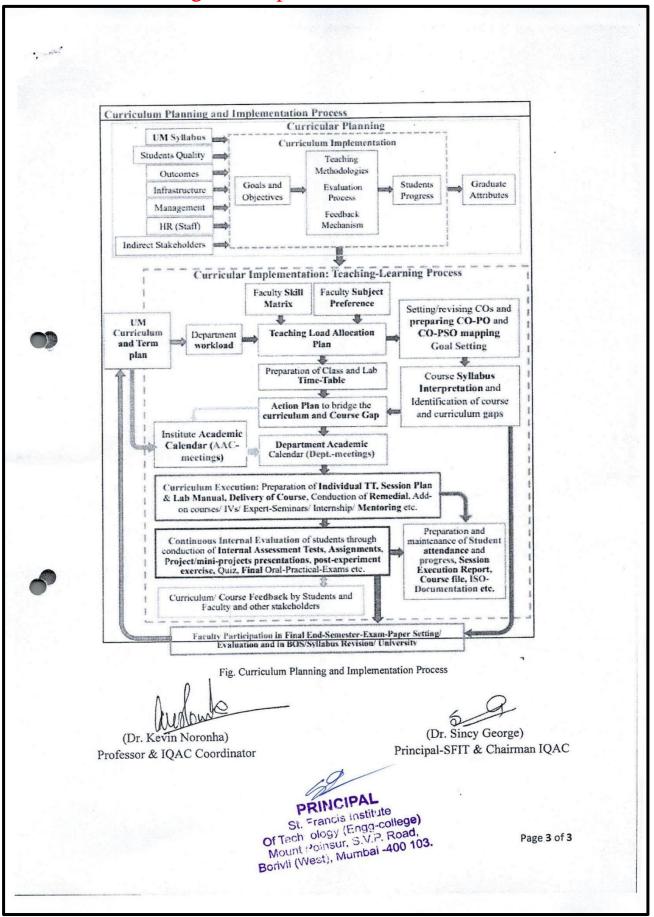
# Criterion 1 - Curricular Aspects 1.1 Curricular Planning and Implementation

<u>Support File for Cri-1.1.1</u>: The institution adheres to the academic calendar including for the conduct of CIE

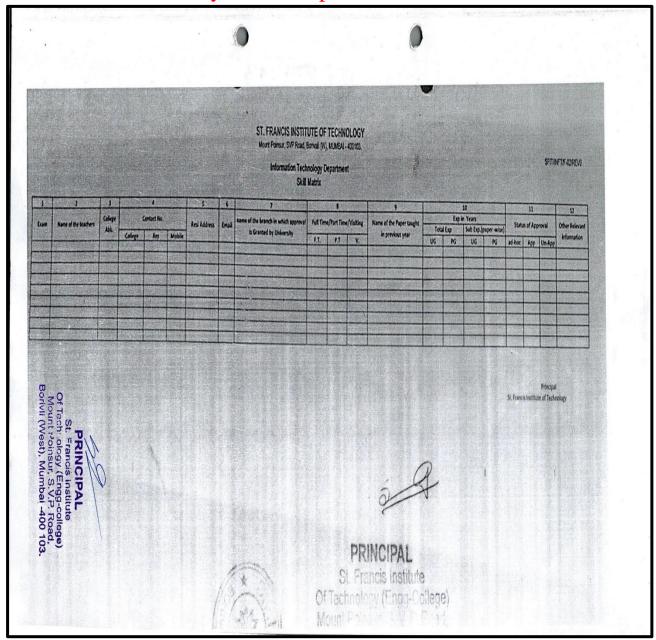
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## **Curriculum Planning and Implementation Process**



Skill-Matrix of faculty-ISO Template-1



# Subject-Preference Form of faculty-ISO Template

Main Group Allied Group Academic Y Related sub	Electronseacher: n/s with Specialization: b: ps:		SFIT/EXTC/F-01/REV0  Department
Qualificatio Main Group Allied Group Academic Y Related sub Sr. No. CI	n/s with Specialization: o: ps: /ear: 2023-24 Term ojects taught in the previo	n: II (Jan to June 2024) ous academic years	
Qualificatio Main Group Allied Group Academic Y Related sub Sr. No. CI	n/s with Specialization: o: ps: /ear: 2023-24 Term ojects taught in the previo	ous academic years	Semester: Even
Main Group Allied Group Academic Y Related sub Sr. No. CI	o: ps: /ear: 2023-24 Term ojects taught in the previo	ous academic years	Semester: Even
Allied Ground Academic You Related subsets of the Sr. No. CI	ps: /ear: 2023-24 Term pjects taught in the previo	ous academic years	Semester: Even
Related sub Sr. No. CI	pjects taught in the previo	ous academic years	Semester: Even
Sr. No. CI			
1	ass / Semester	Cubicate / Occur	
	Programme and the	Subjects / Group	No. of times taught previously
2			
3		179	
4			
2		and the second	
3			
4			
		urrent semester in other departments (	76
	ass / Semester	Subjects / Group	No. of times taught previously
1			
3			

## Subject-Preference Form of Faculty- Sample

### ST. FRANCIS INSTITUTE OF TECHNOLOGY

Mount Poinsur, SVP Road, Borivali (W), MUMBAI - 400103.

SFIT/EXTC/F-01/REV0

## **Electronics & Telecommunication Department** Subject Preference Form (SPF)

Name of Teacher: Dr Jayasudha Koti Qualification/s with Specialization: PhD

Main Group: Communication Allied Groups: Circuit Analysis

Academic Year: 2023-24

Term: II (Jan to June 2024)

Semester: Even

Related subjects taught in the previous academic years

Sr. No.	Class / Semester	Subjects / Group	No. of times taught previously
1	BE/VIII	Wireless Networks	3
2	TE/VI	IoT and Industry 4	1
3	SE/IV	Miniproject	1
4	ME/II	Wireless Adhoc and Sensor Networks	2

Subjects you would like to teach in current semester in your department (in order of preference)

Sr. No.	Class / Semester	Subjects / Group	No. of times taught previously
1	ME/II	Wireless Adhoc and Sensor Networks	1
2	BE/VIII	Wireless Networks	3
3	TE/VI	IoT and Industry 4	1
4	SE/IV	Miniproject	1

Subjects you would like to teach in current semester in other departments (in order of preference)

Sr. No.	Class / Semester	Subjects / Group	No. of times taught previously
1			
2			
3			
4			( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )

Signature of the concerned staff member with date: Dr Jayasudha Koti

Of Technology (Engg-college)
Mount Poinsur, S. V. P. Road,

Borivli (West), Mumbai

## Department Workload-Sample

18 06 18 18 18 16 10 TAL 86	2×2×3=12  NA  2×2×3=12  2×2×3=12  2×2×3=12	3×2=6 3×2=6 3×2=6	DL&COA	
18 18 16	2×2×3=12 2×2×3=12		DIM	
18	2×2×3=12	3×2=6		
16			DAS	
10	PM 2×2=4 2×2×3=12		CG	ND Year
		2×2=4	ООРМ	SEM III
TAI. 86	40/4=10	1/4grps	Mini Project 1A	
1111	TOTA			
22	2×2×4=16	3×2=6	SE	
22	2×2×4=16	3×2=6	DWM	3RD Year
22	2×2×4=16	3×2=6	TCS	SEM V
22	2×2×4=16	3×2=6	CN	
09	NA	3×3=9	DLOC-I	
10	40/4=10	1/4grps	Mini Project 2A	
TAL 10	TOTA			
22	2×2×4=16	3×2=6	ML	
22	2×2×4=16	3×2=6	BDA	
25	2×2×4=16	3×3=9	DLOC-III	
25	2×2×4=16	3×3=9	DLOC-IV	SEM VII
06	NA	3×2=6	ILOC-I	
20	40/2	1/2grps	Major Project 1	
TAL	2×2×4=16 2×2×4=16 2×2×4=16 2×2×4=16 NA	3×2=6 3×3=9 3×3=9 3×2=6	BDA  DLOC-III  DLOC-IV  ILOC-I	4TH Year SEMI VII

	St. Francis Institute of Technology	
	Department of Computer Engineering	
Workload	d and Faculty Requirement: ODD SEM 2023-	24

			TOTAL	122	
	AAC	4×1		4	
EM	AOS	4×1		4	
EM I	ACND	4×1		4	
	Department Level Optional	4×1		4	
	Institute Level Optional	3×1		3	
	Course-II				
	Computational Laboratory-I	Computational Laboratory-I 2×1			
	DEC Laboratory-I	2×1	, 2	2	
	Total		23 + 0 IInd y		

ad in the CMPN Dept = SE (86) + TE (107) + BE (122)= 315
PG+ UG Load in the CMPN Dept = 27+ 315=342

- 1. Available as on 01/07/2022 (UG + PG): Total Regular Faculties=15
  - No of Professors (P)= (02)
  - . No of Associate Professors (AsP)= (02)
  - . No. of Assistant Professor (AP)= 11+ 06 adhoc

Load of 2 Professor and 2 Associate Professors (20+28) = 48

Load of Assistant Professors: 342-48= 294/18= 17

\*\* Note: Varsha Shrivastav may go on ML in next semester

So available Assistant Professor: 10

Required No. of Assistant Professor (AP) = 07 Adhoc

Requirement of new Faculty: 07 Adhoc for next Semester (without Honors and FE Load)

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# St. Francis Institute of Technology Department of Computer Engineering Workload and Faculty Requirement: ODD SEM 2023-24

te: 6 existing Adhocs can be continued and 01 new appointment has to be done

marks based on new intake approval, Active PG Program and NBA Reports: ecial Request Note:

- 1. Keeping in mind- NBA Perspective- Separate requirement of PG (03) faculty in order to maintain the SFR within desired limits
- As we are planning to increase the Intake from July 2023 and also honors Load can be managed till we start with the intake for next year.

er and above (02) extra Adhoc appointments can be secured in view of above two portant considerations. This will help in continuing their appointments for 24-25 ensuring the faculty availability as per need of increase intake and NBA SFR to maintained for next three years as per the remarks.

06-CMPN 06/04/27

. Kavita Sonawane

(This can be considered of the of faunties can be downled based on use appointments outer interview.)

52 05 03 08 103 03

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Borivii (West), Mumbai -400 103.

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#### Department of Computer Engineering WORK LOAD: EVEN SEM 2023-2024 8th Nov. 2023 SEM SUB Practical Lecture Total AOA 2×3×2=12 3×2=6 18 2nd DBMS 3×2=6 2×3×2=12 18 Year OS 3×2=6 2×3×2=12 18 IV MP 3×2=6 2×3×2=12 18 Skill Based LAB(Python) 2×2=4 2×3×2=12 16 40+ groups 10 1hr/4 groups Mini Project TOTAL 98 2×4×2=16 22 3×2=6 SPCC 3<sup>RD</sup> CSS 3×2=6 2×4×2=16 22 22 Mobile Computing 3×2=6 2×4×2=16 Year 22 3×2=6 2×4×2=16 VI 3×2=6 NA 9 DLOC-II (with Electives) $3 \times 1 = 3$ Internet of Things Digital Signal & Image Processing Quantitative Analysis MINI PROJECT 1hr/4groups 45 Groups 12 $4 \times 4 \times 2 = 32$ Skill based Cloud Computing Lab 32 TOTAL 141 Distributed Computing 3×2=6 2×4×2=16 22 4TH Department Level Optional Course -V Year $3 \times 1 = 3$ 2×2=4 25 Deep Learning VIII Applied Data Science 3×2=6 2×6=12 Department Level Optional 3×2=6 $2 \times 4 \times 2 = 16$ 22 Course -VI Social Media Analytics Insti. Level Optional Course-3×3=9 ISNT/level 09 Project 72 TOTAL 150 PRINCIPAL St. Francis Institute Of Tech: ology (Engg-college) Mount Poinsur, S.V.P. Road,

Borivli (West), Mumbai -460an031 with CamScanner

ME-CS201	Cloud Computing and Services	3×1	3
ME-CS202	Exploratory Data Analytics and Visualization	3×1	3
ME-CSDLO21	Department Level Optional Course -III EHDF	3×1	3
ME-CSDLO22	Department Level Optional Course -IV- BTA	3×1	3
ILO-II	Institute Level Optional Course-II	3-1	3
ME-CSL201	Computational Laboratory-II	2×1	2
ME-CSL202	Skill Based Lab-II	4×1	4
	Total		21

Total Load CMPN = SE +TE + BE +ME = (98 +141 +150) = 389 + 21 = 410

According to Faculty Cadre:

- Load of 2 Professor and 2 Associate Professors = 10+12+14+14=50
- Load for Assistant Professors= 410-50= 360
- Required Tot Asst Prof= 360/18 = 20
- Maternity Leave (ML) Case: One faculty ML next semester- 01
- Honors load to be given by Dept= 01 faculty
- Study Leave-One Faculty Next Semester

Available Faculties = 04 (Higher cadre) + 16 (Available Assistant Prof) =20

• Required Assistant Prof (UG + PG + Honors) = 05+01 (SL)

Total new requirement for assistant Prof = 06

HOD CMPN

Dr. Kavita Sonawane

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Borivii (West), Mumbai -400 103.

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## **Teaching-Load-Allocation-Plan-ISO Template**

### ST. FRANCIS INSTITUTE OF TECHNOLOGY

Mount Poinsur, SVP Road, Borivali (W), MUMBA1 - 400103.

SFIT/EXTC/F-03/REV1

Electronics & Telecommunication Department
Teaching Load Allocation Plan for classroom teaching (TLAP)
Academic Year: 2023-2024 Semester: Odd (July to Dec 2023)

c			N 64					No of F	lours	Alloca	ted		
Sr. No.	Name of the Teacher	Post	Name of the Subject	Class		UC	;			P	G		T . 1
.,,0.	A PART I		Subject		Th.	Pr.	Tut.	Proj.	Th.	Pr.	Sem.	Proj.	Total
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					-				_				
	- 1												-
				8									
					-								

Issued By

Dr. Kevin Noronha - HOD EXTC

Approved By

Dr. Sincy George - Principal

PRINCIPAL
St. Francis Institute
Of Tech: ology (Engg-college)
Mount Poinsur, S.V.P. Road,
Borivii (West), Mumbai -400 103.

## **Teaching-Load-Allocation-Plan-Sample**

# ST. FRANCIS INSTITUTE OF TECHNOLOGY

Mount Poinsur, SVP Road, Borivali (W), MUMBAI - 400103.

SFIT/EXTC/F-03/REV1

Electronics & Telecommunication Department Teaching Load Allocation Plan for classroom teaching (TLAP) Academic Year: 2023-20

	Name of the Teacher	Post	Name of the					Non	Hour	3 Allo	cated		THE PARTY
	the second		Subject	Class		UG	:	1100			G		Total
1	Dr. Deepak Jayaswal	Desc	DTSP		Th.	Pr.	Tut.	Proj.	Th.	Pr.	Sem.	Proj.	Total
	- Scepak Jayaswai	Professor-Dean Academics		TE-A	4	6							
_		reademics	ADSP	ME	1								12
2	Dr. Uday Pandit Khot	Professor- R & D	Project MWE	BE			- 6	1		0,			
	100	Coordinator		BE-A	3	8	-			p. 27			12
. 3	D- C- 1	P .	Project DSD	BE				1					
	Dr. Gautam Shah	Professor-Vice Proncipal	BEE	SE-B		4							
-	100	roncipal		FE	3		2			1			10
	AND THE RESERVE OF THE PERSON		Project ICE	BE	-			1				100	
			ICE	BE-A	3								
. 4	Dr. Kevin Noronha	Professor-HOD	NGN	BE-B	3					1 7			
			CSL	ME	3		-			10.1			- 11
1 14				ME	1		1.5						
	7		Project	BE				1					
5	Dr. Ravindra Chaudhari	Associate Professor-	DVLSI	TE-B	3	8				20		-	
	S & A S S	ME Coordinator		TEA		2			-	-1			14
7 11-	N- 4		Project	BE		** :		1	-				
6	Dт. Jayasudha Koti	Associate Professor	MCS	BE-A	3	8			-				
	The second second	- associate 1 foressor	MCS	BE-B	3					1			15
100	POPE AL		Project	BE	-			1					
			Robotics	BE-A	3			_				Par	
7	Dr. Vaqar Ansari	Assistant Professor	Mini-Pro.	SE-B	-	4		_	20		-	- 12	17
				SE-A	3	6	_		_	_	-		
			Project RSA	BE	+-			1					
8	Dr. Anjali Chaudhari	Associate Professor	MWE	TE-A	3		2	-	_	_	- 3		
o	Di. Anjan Chaudhan	Associate Professor		BE-B BE	3	6	-	-	_	-	-		15
_		-	Project DCOM	TE-B	-		-	1	_		-		
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9	Ms. Monika Cheema	Assistant Professor	DCOM OCN	TE-A ME	3	8	-	1.4		-	5%		18
	T-1		Project	BE	2		-		-	-	-		
	100		NT	SE-B	4		2	1	-	100	-	-	14 - 4
	1 12 c' event in			TE-A	+	8	12	-	-	1	1	-	
10	Ms. Savita Kulkarni	Assistant Professor	Mini-pro.	BE BE	-	8	-	-	-	1	-	$\vdash$	16
	1		Project		+		-	2	-	-	-	-	747
11	Ms. Pallavi Patil	Assistant Professor	BEE	FE	3	10	2	<del>  .</del>	-	-	-		16
11	IVIS. I unavi I um		Project	BE	4	8	-	1	-	-			15" 1 1-15
	***		DTSP	TE-B	1 4		-	-	-	-	1		
	Ms. Quanitah Shaikh	Assistant Professor	DTSP	TE-A	-	2	-	-	-	-	-	1	17
12	MS. Quantian Sharen		Mini-Pro.	SE-B	-		-	-	-	-	-	11.07	
			Project	BE	-	-	-	1	-	-	-		BUTUR.
_			Mini-Pro.	SE-A	-	6	-	-	-	-	-	West.	
		Assistant Professor	DVLSI	TE-A ME	3	0	-	-	-	-	-	1	17
13	Ms. Snehal Lopes		OCN		1	- (f	-	-	-	100	-		
		1	Project	BE			1	1	1		1		

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Mount Poinsur, S.V.P. Road,
Borivli (West), Mumbai 400 103.

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	Sr. Name of the Teacher	Post	Name of the	Class	-	UC	;				Sem.	Proj.	Total
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r			MWE	BEB	_	2			_	_	-		
			EDC	SE-B	3	4	1			_	-		16
1	Ms. Jovita Serrao	Assistant Professor	RSA	TEB	3		2	_		-	45		
	1 4/157		Project	BE				1		-			-605
	9		Mini-Pro.	TE-B		8		_		-			
			DL	BE-B	3			_		-	-		18
1	5 Ms. Shilpa Chaman	Assistant Professor	DSD	SE-B	3		_	_	-	-	-		
			IAML.	ME	3		_	1	-	-			
			Project	BE			_	-	-	_			118
			cc	BE- A	3			-	-	_			
			CC	BE-B	3		-	-	-				
			Ethical Hackin		2	-	-	-	-				18
16	Mr. Ramjee Yadav	Assistant Professor	Sk. Lab	SE-A	-	4		-	-	10			
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			Skil Lab-1	ME	-	2	_	1		-			160
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		1	Data Science	BE Honors	4		_	_	-		1	$\vdash$	
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17	Ms. Valentina Rani	Assistant Professor	ADSP	ME	2	2					$\vdash$	H	11.
		F-11 Part	CSL	ME	2			-	_	-	$\vdash$	H	•
-		The second	Project	BE				1	_	_	-	1	
	No. Airka Innaid	Assistant Professor	BEE	FE	3	2	2		_	0 -	-	H	17
8	Ms. Aisha Jangid	Assistant Professor	EDC	SE-A	3	6	1			_	-	-	
T	M. Davis Dies	Assistant Professor	MCS	BE B		8				1	-	$\vdash$	17
1	Ms. Renia Dias	Assistant Professor	EIC	SE-B	3	. 6			3		-	-	
1			BEE	FE	3	6	2			1	_	$\vdash$	16
N	As.Lathika Agarwal	Assistant Professor	NT	SE A	3		2		7 1				
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M	Is. Prema Kushe	Assistant Professor	Skil Lab-1	ME		2	- 1		10				17
1			Sk. Lab	SE-B		12		1	1				
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M	s.Sunita Yadav	Assistant Professor	Sk. Lab	SE-A		8			1				.,
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Ms	Haleema Ansari	Assistant Professor	EM-III	SE A	3		_				-	$\vdash$	V
			EM-III	SEB	3		3						
Ms	Grishalda Dsouza	Assistant Professor	EM-III	SE A	-		3	-	1				3
u-	Praveen Kurien	Assistant Professor	PCE	TEA	2	8			j ·				
vII.	riaveen Kuitti	Assistant Professor	PCE	TEA	2	2	T		1	7			1.00
vis.	Sowmya S	Assistant Professor	PCE	TEA		6							6
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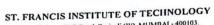
Issued By

Dr. Kevin Noronha

Approved By

Dr. Sincy George - Principal

St (ute Of Tent of Health (Ver. Iv.) Leai -400 103.



Mount Poinsur, SVP Road, Borivali (W), MUMBAI - 400103.

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Electronics & Telecommunication Department
Teaching Load Allocation Plan for classroom teaching (TLAP)
Academic Year: 2023-2024 Semester: EVEN (Jan to June 2024)

	T		Name of the	Class	-	UG	1		-	rs Allo	G		Total
Sr.		Post	Subject	Class	Th.	Pr.	Tut.	Proj.	Th.	Pr.	Sem.	Proj.	TOTAL
No.				SEA	3	6							11
_	Dr. Deepak Jayaswal	Professor-Dean	LIC	SEA				2					
1	Dr. Deepak Jayas van	Academics	BE Project	SEA	-	4		-					
			PCOM	SEB		2	-						13
	Dr. Uday Pandit Khot	Professor- R & D	PCOM		-				3	2			
2	Dr. Oday r andir Knor	Coordinator	RF	ME	-			2					
			BE Project		3	6							11
_	Dr. Gautam Shah	Professor-Vice	LIC	SEB				2					
3	Dr. Gaulani Shan	Proncipal	BE Project	12.1	3	2							
			CCN	TEA			_		3				10
4	Dr. Kevin Noronha	Professor-HOD	NCS	ME	-			2					
			BE Project		3	_	_	_					
-			IPMV	TEB	- 3	8	_	_					15
		Associate Professor-	MP2B	TEB	-	-	-	2					"
5	Dr. Ravindra Chaudhari	ME Coordinator	BE Project		-	_	-	-				2	
			ME		-		-	-	-	1			
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			WSN	ME	-	-	-	-	-	1	1	1	14
6	Dr. Jayasudha Koti	Associate Professor	MPIB	SEB	-	6	_	2	-	1	1	1	
			BE Project				_	2	-	-	-	1	
_			IPMV	TEA	3	8	_	_	-	-	1	+	18
	- W	Assistant Professor	PCOM	SEA	3	2		_	-	-	1	+	
7	Dr. Vaqar Ansari	Assistant Frontisco	BE Project			1		2	_	-	-	1	-
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1		Associate Professor	MA	BE	3					_	-	+	14
s	Dr. Anjali Chaudhari	Associate Professor	BE Project					2			1	1	
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$\neg$			OCN	BEB	3								
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,	Ms. Monika Cheema	Assistant Professor	MDCOM	ME	-	-		2					
1			BE Project		-	4	-	-	-				
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	Ms. Savita Kulkarni	Assistant Professor	MC	SEB	3	6		-	-	+-	+	-	
0	MS. Savita Ruikaiiii	A TOTAL CONTRACTOR OF THE PARTY	· MPIB	SEA		6	_	_	-	-	-	1	
4			BE Project				_	-	-	+-	+-	-	18
		Assistant Professor	IPMV	TEB		8		_	_	-	+-	-	18
1	Ms. Pallavi Patil	Assistant Floresson	SL Python	SEA		8		2	_	-	-	-	
			BE Project					2	_	_	_	-	
1			SAS	SEA	3	1000	3			-	_	-	18
.	Ms. Quanitah Shaikh	Assistant Professor		SEB	3		3						
	Quantum Dilamin.		SAS	SEB	1	4							
			Python	JLD									
1			BE Project	650	3	4							17
	Ms. Snehal Lopes	Assistant Professor	PCOM	SEB	-	8	1	2	1		T		
	Sp. T		MP2B	TEA	+	-		1	1				
+			BE Project		-	-	-	+	-	+	-		1
1			EAA	TEB	3	8	-	-	+	-	+	_	18
N	As. Jovita Serrao	Assistant Professor	EAA	TEA		2	-	-	-	+	+	-	
1			WEB Design	BE	3		-	2	-	-	+	+	
+			BE Project				_	2	-	-	+	-	1
1			ANNFL	TEA	3			-	-	-	+	-	16
	Ms. Shilpa Chaman	Assistant Professor	ANNFL	TEB	3					_	-	-	
1				SEB		8					_	-	
			PYTHON	SEU	1		1	2					
1			BE Project		2	8	1	1					18
1		Assistant Professor	CCN	TEB	3	_	1	1	1				
	Mr. Ramjee Yadav	Assistant Professor	LINUX	TEA	-	4	-	-	+	1	1		1
1			Skill Lab	ME		-	-	1 2	+	+-	+		
+			BE Project			_	-	2	+	-	+		1
		98	NLP	BE	3		-	-	-	-	+	3	18
1		Assistant Professor	Honors/Minors	TE	4		-	-	00		16	1	1
	Ms. Valentina Rani	Assistant Professor	LINUX	TEB		8			-	1	1	4	1
					_		1	1	1	1	11/	470	1

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			BE Project	BE	3	-	-	1		1	T		
T			EM ILOC	ME	1 -1	-	-	3	-				
1		Assistant Professor	EM ILOC	BEB	+-+	12	-	+	+	-		١	8
8	Ms. Aisha Jangid		OCN	FE-A	2	4	2	+	+	+	1		
1		n Conor	SPA	FE-C	2	4	2	1	1	+	+	1	16
1	n is Dias	Assistant Professor	SPA	FE-B	2	6	2	1	1	1	+	+-	
19	Ms. Renia Dias	-	SPA	FE-D		6				1	1	4	16
_	A conval	Assistant Professor	SPA	TEA	3						1	1	-
20	Ms.Lathika Agarwal		DBMS	TEB	3							7	18
_		Assistant Professor	DBMS	TEA		12							1
21	Ms. Prema Kushe		LINUX	SEA	3	6							
			MC	BE	3			-	1	-	1	_	18
_		Assistant Professor	NMT	TEA		6		_	-	-	-	1	
22	Ms.Sunita Yadav		CCN	TEB		8		_	-	_	-	_	
Ť			LINUX	BE	3					-	_	_	18
	T	n Gener	NMT	BE						3	_	_	
23	Ms.Poonam Badadhe	Assistant Professor	ME	TE	4							-	
			Honors/Minor	SE A	3	3							12
_		n Cuar	EM IV		3	3	T						
24	Ms Nancy Sinollin	Assistant Professor	EM IV	SE B	101	210	12	35	15	6	0	2	
										1	م	1 _	_

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## Syllabus Interpretation by Faculty-Sample



# ST. FRANCIS INSTITUTE OF TECHNOLOGY Department of Electrical Engineering

Renewable Energy Sources

AY:2023-24, Term I, Sem V

		ELECTI ENGINEERI				
Course	Course Name	Teaching scheme (Contac Hours)	g	et ed	Credits Assign	ed
EEDO5011	Renewable Energy Sources	Theor y 3	Pract./Tut	Theor y 3	Pract./Tut.	Tota

Cours	Course Name				amir,ation cheme			
e Code	obtise Name		The	50	· · · · · · · · · · · · · · · · · · ·	Ter	Pract/	T 1
		Test	al Assessment	Sem. Exa	Exam Duratio n (in	m Wor k	Oral	Total
FFGGG	1	1	2 (48)	m	Hrs)			
	Microcontroller Application	201	20 20	80	3	-	-	100

Course Outcome:

EEC603	Microcontroller Application
EEC605.1	To Apply identify and describe different types of conventional energy sources and interpretation of current generation status of different energy alternatives.
EEC603.2	
EEC 603.5	To Identify and analyze the emerging solar ceil technologies and design standalone PV system for different household application
EEC603.4	To Identify and describe the various components and types of Wind Energy system and performance analysis
EEC603.5	To identify and describe performance of different fuel cells and their applications.to understand fuel cell based power generation and its environmental impact.
EEC603.6	To Identify and review research literature to understand features and applications of different nonconventional energy sources like Geothermal, Tidal, Wave energy etc.

Program Outcome Achieved

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- PO1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- PO2. Problem analysis: Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- PO4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- PO5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- PO9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary sptrings.

### Syllabus Interpretation

Chapterl	Introduction to Androcontroller
Topics	Introduction: World's and India's production and reserves of commercial energy sources, energy alternatives, review of conventional and non-conventional energy sources. Statistic of net potential and current generation status of different energy alternatives.
References	Ali Keyhani, Mohammad N. Marwali, Min Dai "Integration of Green and Renewable Energy in Electric Power Systems", Wiley Green M.A. "Solar Cells": Operating Principles, Technology and System Applications, Prentice Hall Inc
Teaching Methodology	offline class using ppt/black board, uploading materials in google classroom
Assessment tools used	Internal assessment test 1,MCQ,Seminar
Course outcome	To Apply, identify and describe different types of conventional energy source and interpretation of current generation status of different energy alternatives

Chapter 2 Francis Institute
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Solar Energy (Thermal Energy applications):

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Chapter4	Wind Energy:
onics	Review of wind energy system and its components, types of wind turbines, characteristics; general concepts of aerofoils and aerodynamics, Wind data, Energy content of the wind,  Power generation and control in wind energy systems, performance calculations of wind energy systems. Topologies of WES, WES with rectifier / inverter system, Power  Converters for Doubly Fed Induction Generators (DFIG) in Wind Turbines.
References	J.F. Manwell and J.G. McGowan, Wind Energy Explained, Theory Design and Applications Wiley publication
Teaching Methodology	offline class using ppt/black board, uploading materials in google classroom
Assessment tools used	Internal assessment test 2,MCQ,module test,assignment
Course outcome	To Identify and describe the various components and types of Wind Energy system and performance analysis

Chapter5	Fuel Cell;
Topics	Review of fuel cells and their principle of operation, Review of types of fuel cell and their performance comparison. Topologies of fuel cell power systems, applications.
References	Timmes Larminie, Andrew Dicles "Fuel Cell Systems Explained," Wiley
Teaching Methodology	offline class using ppt/black board, uploading materials in google classroom
Assessment tools used	Assignment
Course outcome	To identify and describe performance of different fuel cells and their applications to understand fuel cell based power generation and its environmental impact

Chapter6	Other Sources::
Topics	Review of other nonconventional sources, their features and applications: Biomass, Fidal,Ocean, Thermal Electric Conversion, geothermal, Micro-hydro, Wave energy
References	<ul> <li>D. D. Hall and R. P. Grover, Biomass Regenerable Energy, John Wiley, New York, 1987.</li> <li>9. Felix A. Farret and M. Godoy Simoes, Integration of Alternative Sources of Energy, 2006, John Wiley and</li> </ul>

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Topics	Solar thermal energy storage. Liquid flat plate collector, Solar air heater, concentrating collectors, thermal energy storage, solar pond
References	Ali Keyhari, Mohammad N. Marwal Min Dai "Integration of Green and Renewable Energy in Electric Power Systems", Wiley  2. Green M.A. "Solar Cells": Operating Principles, Technology and System Applications, Prentice Hall Inc
Teaching Methodology	offline class using ppt/black-board ,uploading materials in google classroom
Assessment tools used	Internal assessment researt NCO, Assignment, Module Test
Course outcome	To Identify, describe and analyze the process of power generation through solar thermal energy and develop the solution for utilization of renewable energy sources for both domestics and industrial applications.

Chapter3	Solar Energy Pirco Electricity Applications):
Topics Anti-S	Solar Photovoltaine solar cell: characteristics, losses, model of a solar cell, emerging solar cell technologies; Solar PV modules, mismatch in module, hot spots, bypass diode: PV module: I-V and power curve, effect of variation in temperature and solar radiations.  MPPT, types different algorithms for electrical MPPT. Distributed MPPT, MPPT converters. Types of PV systems: standalone, grid connected systems; BOS of PV system.  Battery charge controllers, Power Conditioning Unit, Solar PV Micro-inverters Solar Plant design: mounting of PV panels supporting structures, Calculation and Design methodology of standalone PV system and grid connected system.
References	Chetan Singh Solanki, Solar Photo Voltaics, PHI Learning Pvt Ltd., New Delhi, 2009,
Teaching Methodology	offline class using opt/black board, uploading materials in google classroom
Assessment tools used	Internal assessment test 2,MCQ,module test,Assignment
Course outcome	To identify and analyze the emerging solar cell technologies and design standalone PV system for different household application

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	Sons.
Teaching Methodolcgy	offline class using ppt/black board, uploading materials in google classroom
Assessment tools used	Assignment, MCQ
Course outcome	To Identify and review research literature to understand features and applications of different nonconventional energy sources like Geothermal, Tidal, Wave energy etc

### Text Books:-

1. Ali Keyhani, Mohammad N. Marwali, Min Dai "Integration of Green and Renewable Energy in Electric

Power Systems", Wiley

2. Green M.A "Solar Cells": Operating Principles, Technology and System Applications, Prentice Hall Inc.

Englewood Cliffs N.J, U.S.A, 1982

3. James Larminie, Andrew Dicles "Fuel Coll Systems Explained," Wiley publication

4. Chetan Singh Solanki, Solar Photo Voltaics. PHI Learning Pvt Ltd., New Delhi, 2009

5 Hashem Nehrir and Caisheng Ward Modeling and control of Fuel Cells: Distributed

Applications, IEEE Press, 2009

6. J.F. Manwell and J.G. McGanan, Wind Energy Explained, Theory Design and Applications, Wiley publication

7. Leo J.M.J. Blomen and Michael N. Mugerwa, "Fuel Cell System", New York, Plenum Press, 1993.

8. D. D. Hall and R. P. Grover, Biomass Regenerable Energy, John Wiley, New York,

9. Felix A. Farret and M. Godov Simoes, Integration of Alternative Sources of Energy, 2006. John Wileyand

10. S. Chaldaborty, M. G. Simões and W. E. Kramer, Power Electronics for Renewable and Distributed Energy System, Springer 2013

11. N. Femia • G. Petrone, G. Spagnuolo and M. Vitelli, Power Electronics and Control Techniques for Maximum

Energy Harvesting in Photovoltaic Systems, CRC Press, 2013.

## Website Reference / Video Courses:

- 1. Website Reference/ Video Courses:
- 2.
- 3. 1. NPTEL Course: Energy Resources & Technology By Prof. S. Banerjee, IIT Kharagpur:- Web link-
- https://nptel.ac.in/courses/108/105/108105058/

6. 2. NPTEL Course: Non-Conventional Energy Systems By Prof. L. Umanand St. Francis institute

Of Tach ology (Engg-college) Mount Poinsur, S.V.P. Road, Borivii (West), Mumbai -400 103.



USC Bangalore: - Web link-7. https://nptel.ac.in/courses/105/.03/.03103C78/

## Gaps Identified

Syllabus should be included more design and implementation concept of solar and wind energy

## Action taken:

Miniproject given to the students are based on solar energy design

Topic beyond syllabus:

Ms Shyma K V

Subject in Charge 

Megha Fernandes

HOD, Electrical

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## Institute Academic Calendar- Sample

# ST. FRANCIS INSTITUTE OF TECHNOLOGY

(ENGINEERING COLLEGE)

(Roman Catholic Christian Minority Educational Institute)

(Approved by AICTE & Govt. of Maharashtra with permanent Affiliation to University of Mumbas)

P.B. No. 8456, Mount Poinsur, S.V.P. Road, Borivli (West), Mumbai - 400 103. Tel.: 91673 70622 / 91673 70632 / 91673 70637 E-mail: sfedu@sfit.ac.in Website: www.sfit.ac.in

r. No	Month/Week	Academic Day/Date	rgraduate (FE, SI Calendar for T Academic Activity	Co- Curricular	Extra- Curricular	Institute Activity
				Activity	Activity	
1.	January/0	Thursday/ 04-01-24				Staff Reporting Day
2.		Friday/ 05-01-24	Upload (TT) on google classroom			Staff Orientation
3.			Upload (SP) on google classroom			
4.			Upload approved (DAC) on website		He I	
5.		Saturday/ 06-01-24			s Celebration	
6.	January /1st	Monday/ 08-01-24 Commencement of Even semester for F.E. S.E. T.E II: 4 to 5 hours theory and introductory lab (two-w schedule)				
7.		Tuesday/ 09-01-24 to 13-01-24	Upload: Studen Technical Activi calendar, ISO ca	ty (NTA)Calen	dar, Placement	SCAC), National Calendar, IQAC ar
8.	January /2 <sup>nd</sup>	Monday/ 15-01-24 to Friday/ 19-01-24	Theory Lecture of 45 minutes to be scheduled up to 3:15 pm		IGNITRA- Sports week	
9.		Saturday/ 20-01-24			Alumni mee	et
10.	January/3 <sup>rd</sup>	Wednesday/ 24-01-24	Non- Instructional		IRIS-day One	
11.		Thursday/25- 01-24			IRIS-day Two	
12.		Friday/26- 01-24			Republic Day	Flag Hoisting and cultural event
13.		Saturday/ 27-01-24			SFIT- Annual Day-24	
14.	February/4 <sup>th</sup>	Saturday/				Gen meeti

ST. Francis Institute of Technology: ACADEMIC CALENDAR 2023-24 PRINCIPAL

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15.	February/5 <sup>th</sup>	Friday/ 09-02-24	Display of 1st month Attendance Record		
16.	February/6 <sup>th</sup>	Saturday/ 10-02-24	1st PMADS (parents or guard meet of attendance defaulter students) Extra day + Practical session/	NG. 1	eting
17.	February/6 <sup>th</sup>	Monday/ 12-02-24 to Friday/ 16-02-24	IAT-1 QP submission to Exam cell		
18.	February/7 <sup>th</sup>	Saturday/ 17-02-24	IAT-1 (One paper)	Planning and Execution of	
19.		Tuesday/ 20-02-24	One Paper	and the second	Academic Autonomy
20.		Wednesday/ 21-02-24	One Paper		
21.		Thursday/ 22-02-24	One paper		
22.		Friday/ 23-02-24	One paper + Practical session	on Lectures	
23.	February/8 <sup>th</sup>	Wednesday/ 28-02-24	Last date for showing evaluated IAT-1 answer script		
24.	March/8 <sup>th</sup>	Friday/ 01-03-24	Regular Lectures		Academie Audit beginning: ISO Internal Audits
25.		Saturday/ 02-03-24	IAT-1 Honors & Minors		
26.		Saturday/ 02-03-24	Mid-Term Submission Practical Records		2 <sup>nd</sup> AAC meetin;
27.	March/10 <sup>th</sup>	Monday/ 11-03-24	Display of 2 <sup>nd</sup> month Attendance Record		
28.	March/10 <sup>th</sup>	Saturday/ 16-03-24	PTI (Afternoon Session)		CDC/GC meeting (morning Session
29.	March/12 <sup>th</sup>	Friday/ 22-03-24 to Saturday/ 30-03-24	Intra and Inter level Proj Students  2nd PMADS (parent or guar Students) Extra day + Pract	dians meet of At	
30.	April/13 <sup>th</sup>	Monday/ 01-04-24 to Friday/ 05-04-24	IAT-2 QP submission to Exam cell		
31.		Saturday/			AC mouting

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		06-04-24				
32.	April/13 <sup>th</sup>	Tuesday/ 02-04-24	Display of 3 <sup>rd</sup> month Attendance Record			,
33.	April/13 <sup>th</sup>	Saturday/ 06-04-24	Final PMADS			ment Review prning session)
34.	April/14 <sup>th</sup>	Saturday/ 06-04-24	IAT-2 (One paper	Approval of In external pract examiners by	ical/oral	4th AAC meeting 18O-Academic Audit
35.		Monday/ 08-04-24	IAT-2 (One paper)			Autonomy- meeting ISO- Academic
36.		Wednesday/ 10-04-24	IAT-2 (One paper			Audit ISO-Academic audit
37.		Friday/ 12-04-24	IAT-2 (One Paper			2 <sup>nd</sup> IQAC - meeting
38.		Saturday/ 13-04-24	IAT-2(One Paper) + Honors & Minors IAT-2		A-2 2	
39.	April/15 <sup>th</sup>	Monday/ 15-04-24	Regular lectures lectures, Mock p submission. (Note: Avoid sch Extra curricular 04-23)	ractical exam & eduling co-curric	Final cular and	End of Academi Audit: ISO Internal Audits
40.		Tuesday/ 16-04-24	Regular lectures practical exam & and last date for	Final submissio	n.	
41.		Thursday/ 18-04-24 To Friday/ 19-04-24		Remedial session, mission. ourse Survey.	Revision lectu	res, Mock practica
42.		Friday/ 19-04-24	Last Instructional	al day & Last day teachers	of auditing	
43.		Monday/ 22-04-24	Beginning of Sur			
44.	April/16 <sup>th</sup> To May/18 <sup>th</sup>	Wednesday/ 24-04-24 To Tuesday/ 07-05-24	Conduction of Or Exams of Univers Conduction of Or Exams of Univers	sity of Mumbai als/Practical	ISO DNV I	External Audit
45. 46. 47.	May/18 <sup>th</sup>	Monday/ 08-05-24	Last date to uplo Last date of Subi	mission of TW, L	AT, oral/pract	
		Wednesday/	Last day to subm	it records pertai	ning to NBA a	and NAAC

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49.		Friday / 10-05-24	Subject allocation for Even Semester
50.	May/19th and		Summer Vacation
51.	20 <sup>th</sup>	Monday/ 13-05-24 To Friday/ 24-05-24	Theory Exam of University of Mumbai
52.		Thursday/ 04-07-24	End of Summer vacation
53.		Monday/ 08-07-24	Commencement of new term 24-25 (July to December 2024)

### List of Holidays

Sr. no.	Day	Date	Occasion	Activity	
1.	Friday	26-01-24	Republic Day	Flag Hoisting	
2.	Monday	19-02-24	Chhatrapati Shivaji Maharaj Jayanti	Holiday	
3.	Friday 08-03-24 Mahashiyratri		Holiday		
4.	Monday	25-03-24	Holi (day two)	Holiday	
5.	Friday	Friday 29-03-24 Good Friday		Holiday	
6.	Tuesday	09-04-24	Gudipadwa	Holiday	
7.	Thursday	11-04-24	Ramzan Eid	Holiday	
8.	Sunday	14-04-24	Dr. Babasaheb Ambedkar Jayanti	Holiday	
9.	Wednesday	17-04-24	Ram-Navami	State Holiday	
10.	Sunday	21-04-24	Mahavir Jayanti	Holiday	
11.	Wednesday	01-05-24	Maharashtra Day	State Holiday	
12.	Thursday	23-05-24	Buddha Purnima	Holiday	
13.	Monday	17-06-24	Bakri Eid	Holiday	
14.		TERN	4 END		

58 teaching days with the following distribution of weekdays:

Days	Instructional days	Public Holidays	Institutional activity
Mondays	12	2	1 (IAT-2)
Tuesdays	13	1	1(IAT-1)
Wednesdays	11	1	3(IRIS, IAT-1&2)
Thursdays	12	1	2(IRIS, IAT-1)
Fridays	10	3	2 (IAT-1 & 2)
Total	57	8	9

Dean Academics Dr. Deepak J Jayaswal S.F.I.T.

Principal Dr. Sincy George

ST. Francis Institute of Technology: ACADEMIC CALENDAR 2023-24 PRINCIPAL
Celebrating 25 years of Academic excellence

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# Department Academic Calendar- Sample

•			A	cade	mic (	Cale	ndar	of Second half 2023-2024 for	1.1.1 (10) Mech Mechanical Engineering Depar	1.1.2 02)
Month	Su	Mo	Tu	We	Th	Ft	Sa	Curricular Activity	Co-Curricular Activity	Extra curricular Activity
		1	2	3	4	5	6	DTT: Display of Timetable	FRD: Faculty Reporting Day FM: Faculty Meeting	SO: Staff Orientation
	7	8	O)	10	11	12	13	CNT: Commencement of New Term		
January 2024	14	15	16	17	18	19	20			IGNITRA sports week (15Jan-19Jan) Rekindle 24 - Alumni meet (20Jan)
	21	22	23	24	25	26	27			IRIS Days (24Jan-25Jan) Republic day (26Jan) Annual Day (27Jan)
	28	20	30	31					EL: Expert Lecture on Higher Education	
					1	2	3			
	4	5	6	7	8	9	10	DAR: Display of 1st attendance record PMADS: 1st Parents Meet ED: Extra Day PS: Practical Session	EL: United Motorsports Training (7 Feb) EL: Expert Lecture on Motivation (8 Feb)	
February 2024	11	12	13	14	15	16	17	IAT1: Internal Assessment Test 1	PAC meeting (tentative)	
0	18	19	20	21	22	23	24	IAT1: Internal Assessment Test 1 PS: Practical Sessions (23Feb)	IV: HVAC&R (Tentative)	
	25	26	27	28	29				EL: Expert lecture by SIT MM: 1st Mentor-Mentee Session Week	9.4
						1	2	1AT1: Internal Assessment Test 1 (Honors/Minors) MSE: Mid-term Submission	IV: Department IV (Tentative 1st to 3rd Mar) DAB meeting (tentative)	
	3	4	5	6	7	8	9	MOD. Mid-term Salamssion	IV: Turbo Machinery (Tentative)	WD: Women's Day celebration
March	10	11	12	13	14	15	16	DAR: Display of 2nd attendance record PTI: Parents Teachers Interaction	Yantriki	
2024	17	18	19	20	21	22	23	Intra & Inter level Project competition for final year students (22Mar-30Mar)		
	24	25	26	27	28	29	30	PMADS: 2nd Parents Meet ED: Extra Day PS: Practical Session		
	31									
		1	2	3	4	5	6	DAR: Display of 3rd attendance record PMADS: Final Parents Meet IAT2: Internal Assessment Test 2		
O.	7	8	9	10	11	12	13	IAT2: Internal Assessment Test 2		
April 2024	14	15	16	17	18	19	20	TW: Term work submission (18Apr) DLOC & ILOC orientation for Term I 2024-25 (19Apr) Last instruction day (19Apr)	MM: 2nd Mentor-Mentee Session Week	SWD: Staff Welfare Day
	21	22	23	24	25	26	27	and manaction day (127th)		
	28	29	30							
				1	2	3	4	OR/PR: Conduction of Oral/Practical		
May 2024	5	6	7	8	9	10	11	examination	Last date for: Submission of TW/IAT/OR PR marksheets to exam cell (8May) Course file upload on ERP (8May) Submit records pertaining to NBA & NAAC (9May) Department meeting & Subject altogration for next semester (10May)	-
	12	13	14	15	16	17	18	ESE: End Sem Theory Exam	VICE-PRINC	IPAL
	19	20	21	22	23	24	25	ESE: End Sem Theory Exam	VICE-PRINC St. Francis Inst Of Technology(Engr Mount Poinsur, S.V Borivali (West), Mumb	itute -Callege)
	26	27	28	29	30	31		ESE: End Sem Theory Exam	Mount Poinsur, S.V	P. Road, ai - 400 103.

Month	Su	Мо	Tu	We	Th	Fr	Sa	Curricular Activity	Co-Curricular Activity	Extra curricular Activity
							1			
	2	3	4	5	6	7	8			
une 2024	9	10	11	12	13	14	15			
	16	17	18	19	20	21	22		Proposed STTP	
	23	24	25	26	27	28	29			
	30									
		1	2	3	4	5	6	End of summer vacation		
	7	8	9	10	11	12	13	CNT: Commencement of New Term 2024-2025		
July 2024	14	15	16	17	18	19	20			
	21	22	23	24	25	26	27			
	28	29	30	31	<b>建</b>					

Mr. Seen Page 2/24. Head of Department

Dr. Deepak Jayaswal Dean Academics

Dr. Sincy George Principal

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## Class Time Table-ISO Template

	ST FRANCIS INSTITUTE OF TECHNOLOGY  Mount Poinsur, SVP Road, Borivali (W), MUMBAI - 400103.  DEPARTMENT OF COMPUTER ENGINEERING											
24250	Academic Year 2023-2	024 Term-II	Date	e of Commencement	SFIT/CMPN/F-04/REV0 of Term: 8th Jan 2024							
ming: oom no. : ass:	9.00 am - 5.00 pm		Batches: SCB1 SCB2 SCB3	Roll No- Roll No Roll No	34H 2024							
Regular Periods	Monday	Tuesday	Wednesday	Thursday	Friday							
9.00 TO 10.00 10.00 TO					Friday							
11.00 11-11:15			TEA BREAK									
11.15 TO 12.15			TEA BREAK									
TO 1.15				1214101								
TO 2.00 2:00			Lunch Break									
TO 3:00												
3:00 TO 4:00												
4:00 TO 5:00												
viation :	L: LECTURE, P: PR	ACTICAL, T: TUTORIA	L									
ets :		Legend										

## **Lab Time Table-ISO Template**

			.a, Borivii (West)	GY(Engineering Co Mumbai - 400 103			
	COMI	PUTER ENGI	NEERING DE	SFIT/CMP	N/F-06/REV0		
Academic Year College Timings -	> 2023- 20	124 TEDATE					
College Timings -	> From 09.00	0 AM To 05 00 1	OUN- DEC 2023	3) ODD SEM			
and I wall	e:	- 10 05.00 1	171				
Lab Incharge Nan	ne:			Room No.:			
ab Assistant Nan					PART TO THE		
Practical load all				Department:	CMPN		
Class & Branch							
	Si	ubject	Number	r of Practicals	-		
SECMPN A SECMPN B			Batches	Hours per batch	Total		
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TE CMPN B							
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4.00				St. Francis	Inctitute		
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To 5.00				Borivii (vvest), Mu	mbai 400		

			(1, 656)	Mumbai - 400 103	CMPN/F-06/REV	
	COMPL	TER ENGINE	ERING DEPA	RTMENT	WIFIN/F-UO/REV	0
			ry Time Table			
Academic Year	> 2023- 2024	TERM II ( JA	N- APRIL 2024	) EVEN SEM		
College Timings	> From 09.00 A	M To 05.00 PM				
aboratory Name:				Room No. :	403	
ab Incharge Name				1		
ractical load allo				Department:	CMPN	
	ntea :					
Class & Branch	Su	bject		of Practicals	Total	
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01.15						
.15 To 02.00			LUNCH BREAK			
2:00						
TO 3.00					all	
3:00					PRINCIPA	
ТО				St	t. Francis instit n ology (Engg	tute
400				Mouri	Poinsur, S.V.	P. Road,
4:00 TO 5:00				Borivli (V	Vest), Mumbai	-400 103.

## Individual Time Table-ISO Template

		ST. FRANCIS IN	ISTITUTE OF TECHNO	DLOGY		
	Mou	unt Poinsur, SVP Ro	oad, Borivali (W), MUM	IBAI - 400103.	SFIT/CMPN/F-05/REV0	
		Department of	of Computer Engineering	ng	SPITICMPINIT-USINE VU	
Academic Year :- Jul	ly-Dec 2023- 24	Mulviduai 10a	acher's Time Table (IT		4000	
College Timings :- 9:	00 AM - 5:00 PM			Term: I (July- Sem: Odd	Dec)	
eacher's Name :			Designation : Department :			
Class & Branch	S.,,	blast		er of Periods		
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		Total				
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12.15 TO 1.00			LUNCH BREAK			
1.00 TO 2.00						
2.00 TO 3.00						
3.00 TO 4.00						
4.00 TO 5.00						
	Mr Shamsuddin Khan Convenor		Dr. Sarifa Sonawane HOD	00	Of Te	PRINCIPAL St. Francis Institute sch. ology (Engg-college) ant Poinsur, S.V.P. Road, (West), Mumbai -400 103.

## ST. FRANCIS INSTITUTE OF TECHNOLOGY



Mount Poinsur, SVP Road, Borivali (W), MUMBAI - 400103.

SFIT/CMPN/F-05/REV0

Department of Computer Engineering Individual Teacher's Time Table (ITTT)

NBA Accredated Till June 2025

Academic Year :- 2023- 24 College Timings :- 9:00 AM - 5:00 PM

Term: II (Jan-May) Sem: Even

Teacher's Name :

Designation : Department :

Cl 0 D		Number of Periods		
Class & Branch	Subject	Theory	Practicals/ Tutorials	Total
	Total			

Periods	Monday	Tuesday	Wednesday	Thursday	F-1-1-
9.00 TO 10.00				mursuay	Friday
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11.15 TO 12.15					
12.15 TO 1.15					
1.15 to 2.00			LUNCH BR	EAK	
2.00 TO 3.00					
3.00 TO 4.00					
4.00 TO 5.00					

Mr. Shamsuddin Khan Convenor Dr. Kavita Sonawane HOD

Dr. Deepak Jayaswal Dean Academics

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Of Technology (Engg-college)
Mount Poinsur, S.V.P. Road,
Borivii (West), Mumbai -400 103.

# Course Session Plan – ISO Template

	E-				
		ST. FRANCIS INST Mount Poinsur, SVP Road, I	TUTE OF TECHNOLOGY Borivali (W), MUMBAI - 40	0103	
Mount Poinsur, SVP Road, Borivali (W), MUMBAI - 400103.  Electronics and Telecommunication Engineering Department SESSION PLAN (SP)					
Class / Branch Semester Star Subject :	ting Date :		Semeste Academic Year Semester Ending Date Name of Faculty	:	- N
Lecture No.	Lecture Date	Topic Planned	Text Book	Reference Reading	Assignments
	2				
-1					

## **Course Session Plan – Sample**

	ST. FRANC Mount Poinsur, SV	ZIS INSTITUTE OF TECH /P Road, Borivali (W), MI	INOLOGY IMBAL - 400103		
		lecommunication Engineer SESSION PLAN (SP)		SFIT/EXTC/F-07/REV	
Semester Subject :	ranch : TE/EXTC/B Starting Date : 10/07/2023 Random Signal Analysis	Semester: V Academic Year: 2023-24 Semester Ending Date: 2 Name of Faculty: Ms. Jo	20/10/2023		
Lecture No.	Topic Planned	Text Book	Reference Reading	Assignments	
1	Definitions of probability and basic numericals	T. Veerarajan,	P. Ramesh Habu, "Probability Theory and Random Process", Tata McGraw Hill Hadication		
2	Independence of events, Joint and conditional probability	"Probability, Statistics and Random Process",			
3	Total probability theorem, Bayes' theorem and numericals	Tata McGraw Hill Education, Third Edition		Black Board	
4	Binary symmetric communication channel analysis using Bayes' theorem.	(2018).	Mucation		
5	Continuous, discrete, and mixed random variables, probability density function	4	Hwei Hsu, "Theory and Problems of Probability,		
6	probability distribution function, and probability mass function,	T. Veeraraja	Random Variables, and Random Processes", Schaum's Outline Series, McGraw Hill, 1997. iv. P. Ramesh Babu, "Probability Theory and Random Process", Tata McGraw Hill	Black Board	
7	properties of PDF and CDF	"Probability, Statistics			
8	Binomial, Poisson and Uniform Distributions				
9	Gaussian and Rayleigh Distributions				
10	Mean, variance and moments of random variables				
11	Numericals on Module 2	4 -1	Education		
12	Function of a random variable and their distribution and density functions.	, 30	i. Hwei Hsu, "Theory and		
13	Expectation, variance, moments	01	Problems of Probability,		
14	Numericals on random variable and their distribution and density functions	Probability, Statistics and Random Process", Tata McGraw Hill Education, Third Edition	Random Variables, and Random Processes", Schaum's Outline Series, McGraw Hill, 1997. ii. P. Ramesh Babu, "Probability Theory and Random Process", Tata McGraw Hill	Black Board	
15	characteristic function of random variable				
16	Transformation of a random variable				
17	Markov and Chebyshev inequality	(2018).			
18	characteristic functions, moment theorem				
	Numericals on characteristic functions, moment theorem	_	Education		

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Borivli (West), Mumbai -400 103.

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joint CDF and joint PDF.	1	i. Hwei Hsu, "Theory and	
		Problems of Probability,	
One function of two random variables	T. Veerarajan,	Random Variables, and	
One function of two random variables	"Probability, Statistics	Random	
joint moments, covariance and	and Random Process",	Processes".	Black Board
correlationindependent	Tata McGraw Hill	ii. P. Ramesh Babu,	Black Board
uncorrelated and orthogonal random	,	"Probability Theory and	
variables	(2018).	Random Process", Tata	
Central limit theorem and its significance		McGraw Hill	
Numericals on Module 3		Education	
Definitions, statistics of stochastic processes,		i. Hwei Hsu, "Theory and	
	T Vannania	Problems of Probability,	
		Random	
		Processes"	Black Board
	- CONTRACTOR CONTRACTO	ii. P. Ramesh Babu,	
iviean and correlation ergodic processes			
Transmission of WSS through LTI system	(2016).	Random Process",	
Introduction to Markov process.		Education	
residual calculations	4		
	Douglas C. Montgomery,		
4 15	Elizabeth A. Peck and G.		
11	Geoffrey Vining,	~/	Black Board
prediction of new observations.	"Introduction to		Diack Board
	linear regression		
	Analysis"		
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	N. 0 . W	Education	
e of H.O.D.	XX. 20		Signature of Teacher Date:
2. EVIT	Dr.		
	correlationindependent uncorrelated and orthogonal random variables Central limit theorem and its significance Numericals on Module 3 Definitions, statistics of stochastic processes, n th order distribution Second-order properties: mean and autocorrelation Poisson process, normal processes, SSS, WSS. Mean and correlation ergodic processes Transmission of WSS through LTI system Introduction to Markov process. residual calculations  Applications of simple linear regression in prediction of new observations.	correlationindependent uncorrelated and orthogonal random variables Central limit theorem and its significance Numericals on Module 3 Definitions, statistics of stochastic processes, nt horder distribution Second-order properties: mean and autocorrelation Poisson process, normal processes, SSS, WSS. Transmission of WSS through LTI system Introduction to Markov process. residual calculations  Tata McGraw Hill Education, Third Edition (2018).  T. Veerarajan, "Probability, Statistics and Random Process", Tata McGraw Hill Education, Third Edition (2018).  Douglas C. Montgomery, Elizabeth A. Peck and G. Geoffrey Vienng, "Introduction to linear regression Analysis"	correlationindependent uncorrelated and orthogonal random variables Central limit theorem and its significance Numericals on Module 3 Definitions, statistics of stochastic processes, nt horder distribution Second-order properties: mean and autocorrelation Poisson process, normal processes, SSS, WSS.  Mean and correlation ergodic processes Introduction to Markov process. residual calculations  Tata McGraw Hill Education T. Veerarajan, "Probability, Statistics and Random Process", Tata McGraw Hill Education T. Veerarajan, "Probability, Statistics and Random Process", Tata McGraw Hill Education T. Veerarajan, "Probability, Statistics and Random Processes" Tata McGraw Hill Education T. Veerarajan, "Probability, Statistics and Random Processes" Tata McGraw Hill Education T. Veerarajan, "Probability, Statistics and Random Processes" Tata McGraw Hill Education T. Veerarajan, "Probability, Random Variables, and Random Processes" Tata McGraw Hill Education Toblems of Probability, Random Variables, and Random Processes" Toblems of Probability, Random Processes Teducation Throduction to Markov process.  Power of the Meritan McGraw Hill Education Toblems of Probability, Random Variables, and Random Processes" Toblems of Probability, Random Variables, and Random Processes Teducation Throduction to Markov process.  Power of the Meritan McGraw Hill Education Toblems of Probability, Random Variables, and Random Processes Teducation Throduction to Markov process.  Toblems of Probability, Random Variables, and Random Processes Teducation Throduction to Markov processes Toblems of Probability, Random Variables, and Random Processes Teducation Throduction to Markov processes Toblems of Probability, Random Variables, and Random Processes Teducation Throduction to Markov processes Toblems of Probability, Random Variables, and Random Processes Teducation Throduction to Markov processes Toblems of Probability, Random Variables, and Random Processes Teducation Throduction to Markov processes Toblems of Probability Random Processes Tobl

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Borlvli (West), Mumbai -400 103.

# **Course Session Execution Plan - ISO Template**

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			Mount Poinsur, SVP R	S INSTITUTE OF TECHNO Road, Borivali (W), MUM	IBAI - 400103.		SFIT/EXTC/F-0	8/REV2	
Seme	we gr		Electronics & Telecommu Session Pl	unication Engineering De Plan Execution Report (SPER)	epartment (EXTC)				
Class Subje	/ Branch :	-					Academic Year Name of Facult	r: y:	
Lectu No.	re Lasture Date 8	& Execution Date & Time	Topic Covered	Teaching Aid/ Tools	Pedagogy*	Percentage Attendance (Class BE A)	Percentage Attendance (Class BE B)	Remarks	
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# Course Session Execution Plan - Sample

		Mount Po	T. FRANCIS INSTITUTE OF insur, SVP Road, Borivali ( & Telecommunication E	W), MUMBAI	- 400103.	_	
	 Branch : TE/EXTC or Starting Date : 10/0 : RSA	1	Session Plan Execution Re	eport (SPER)	Semester: V Academic Year: 2 Semester Ending Name of Faculty:	Date: 21/10	
Lecture No.	Lecture Palnned Date & Time	Lecture Execution Date & Time	Topic Covered	Teaching Aid/ Tools	Pedagogy*	Percentage Attendance	Remarks
1	11/07/2023 11.15 am to 12.15 pm	11/07/2023 11.15 am to 12.15 pm	Definitions of probability and basic numericals		5	98.55%	
2	12/07/2023 3.00 pm to 4.00 pm	12/07/2023 3.00 pm to 4.00 pm	Independence of events, Joint and conditional probability		250	98.55%	
3	14/07/2023 10.00 am to 11.00 am	14/07/2023 10.00 am to 11.00 am	Total probability theorem, Bayes' theorem and numericals		300	98.55%	
4	18/07/2023 11.15 am to 12.15 pm	18/07/2023 11.15 am to 12.15 pm	Binary symmetric communication channel analysis using Bayes' theorem.	23	100 St. O.	94.20%	-
5	19/07/2023 3.00 pm to 4.00 pm	24/07/2023 11.15 am to 12.15 pm	Continuous, discrete, and mixed random variables, probability density function	TY.		100.00%	19/07 half day due to rain
6	21/07/2023 10.00 am to 11.00 am	25/07/2023 11.15 am to 12.15 pm	probability distribution function, and probability mass function,	7	<b>\</b>	85.51%	
7	25/07/2023 11.15 am to 12.15 pm	26/07/2023 3.00 pm to 4.00 pm	properties of PDF and CDF	S	7,	100.00%	
8	26/07/2023 3.00 pm to 4.00 pm	28/07/2023 10.00 am to 11.00 am	Binomial, Poisson and Uniform Distributions	Chalk board	Lectures/ Discussions/	100.00%	
9	28/07/2023 10.00 am to 11.00 am	01/08/2023 11.15 am to 12.15 pm	Gaussian and Rayleigh Distributions	20	Online Learning	89.86%	7. 42
10	01/08/2023 11.15 am to 12.15 pm	02/08/2023 3.00 pm to 4.00 pm	Mean, variance and moments of random variables	D.		91.30%	
11	02/08/2023 3.00 pm to 4.00 pm	04/08/2023 10.00 am to 11.00 am	Numericals on Module 2	X.		97.10%	
12	04/08/2023 10.00 am to 11.00 am	08/08/2023 11.15 am to 12.15 pm	Function of a random variable and their distribution and density functions.			98.55%	110 101 11 14
13	08/08/2023 11.15 am to 12.15 pm	09/08/2023 3.00 pm to 4.00 pm	Expectation, variance, moments		[	98.55%	
14	09/08/2023 3.00 pm to 4.00 pm	11/08/2023 10.00 am to 11:00 am	Numericals on random variable and their distribution and density functions.			94.20%	
15	11/08/2023 10.00 am to 11.00 am	22/08/2023 11.15 am to 12.15 pm	characteristic function of random variable			94.20%	
16	22/08/2023 11.15 am to 12.15 pm	29/08/2023 3.00 pm to 4.00 pm	Transformation of a random variable			94.20%	
17	23/08/2023 3.00 pm to 4.00 pm	25/08/2023 10.00 am to 11.00 am	Markov and Chebyshev inequality			94.20%	
18	25/08/2023 10.00 am to 11.00 am	29/08/2023 11.15 am to 12.15 pm	characteristic functions, moment theorem			94.20%	
19	29/08/2023 11.15 am to 12.15 pm	30/08/2023 3.00 pm to 4.00 pm	Numericals on characteristic functions, moment theorem				3
20	30/08/2023 3.00 pm to 4.00 pm	01/09/2023 10.00 am to 11.00 am	Pairs of random variables			95.65% 88.40%	
21	01/69/2023 10.00 am to 11.00 am	05/09/2023 11.15 am to 12.15 pm	joint CDF and joint PDF.		1	84.06%	
22	05/09/2023	06/09/2023	One function of two random		-		
23	11.15 am to 12.15 pm 06/09/2023	3.00 pm to 4.00 pm 08/09/2023	Variables One function of two random		-	98.55%	
24	08/09/2023 10.00 am to 11.00 am	12/09/2023 11.15 am to 12.15 pm	joint moments, covariance and correlationindependent			98.55%	
25	12/09/2023 11.15 am to 12.15 pm	13/09/2023 3.00 pm to 4.00 pm	uncorrelated and orthogonal random variables			94.20%	
26	13/09/2023 3.00 pm to 4.00 pm	26/09/2023 11.15 am to 12.15 pm	Central limit theorem and its significance			100.00%	
27	26/09/2023 11.15 am to 12.15 pm	27/09/2023 3.00 pm to 4.00 pm	Definitions, statistics of stochastic processes, n th order distribution	Chalk board	Lectures/ Discussions	85.51%	
		ologini (o sioo pini	order distribution	(eg. 118 201 (00)	St. F	RINCIF rancis ir ology (Er	PAL nstitute ngg-college S.V.P. Road nbai -400 10

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29 12/90/2023 10.00 am to 11.00 am 11.15 am to 12.15 pm 06/10/2023 06/10/2023 11.15 am to 12.15 pm 06/10/2023 10.00 am to 11.00 am 10 11.0	10.00 am to 11.00 am   11.15 am to 12.15 pm   11.15 am to 12.15 pm   10.00 am to 11.00 am   11.15 am to 12.15 pm   10.00 am to 11.00 am   11.15 am to 12.15 pm   12.15 am to 12.15 pm	10.00 am to 11.00 am   11.15 am to 12.15 pm   processes, SSS, WSS.	28	27/09/2023 3.00 pm to 4.00 pm	29/09/2023 10.00 am to 11.00 am	Second-order properties: mean and autocorrelation		
30	30	30	29					
31 06/10/2023 LTI system, Introduction to Markov process.  Regression and model building, simple linear regression, multiple linear regression, multiple linear regression of the coefficients, residual calculations  33 19/10/2023 least square estimation of the coefficients, residual calculations  Applications of simple linear regression in prediction of	31 06/10/2023 LTI system, Introduction to Markov process.  Regression and model building, simple linear regression, multiple linear regression, multiple linear regression of the coefficients, residual calculations  32 17/10/2023 least square estimation of the coefficients, residual calculations  33 19/10/2023 Applications of simple linear regression in prediction of	31 06/10/2023 LTI system, Introduction to Markov process.  Regression and model building, simple linear regression, multiple linear regression, multiple linear regression of the coefficients, residual calculations  32 17/10/2023 least square estimation of the coefficients, residual calculations  33 19/10/2023 Applications of simple linear regression in prediction of	30			Mean and correlation ergodic		
32 17/10/2023 regression, multiple linear regression of the coefficients, residual calculations of simple linear regression of the coefficients, residual calculations  33 19/10/2023 least square estimation of the coefficients, residual calculations  Applications of simple linear regression in prediction of	32 17/10/2023 regression, multiple linear regression of the coefficients, residual calculations of simple linear regression of the coefficients, residual calculations of simple linear regression in prediction of the coefficients of simple linear regression in prediction of the regression in prediction of the coefficients of simple linear regression in prediction of the coefficients are regression.	32 17/10/2023 regression, multiple linear regression, multiple linear regression and to 12.15 pm least square estimation of the coefficients, residual calculations  33 19/10/2023 least square estimation of the coefficients, residual calculations  Applications of simple linear regression in prediction of	31			Transmission of WSS through LTI system, Introduction to		
33 19/10/2023 least square estimation of the coefficients, residual calculations 3.00 pm to 4.00 pm  Applications of simple linear regression in prediction of	33 19/10/2023 least square estimation of the coefficients, residual calculations 3.00 pm to 4.00 pm  Applications of simple linear regression in prediction of	33 19/10/2023 least square estimation of the coefficients, residual calculations  Applications of simple linear regression in prediction of				building, simple linear regression, multiple linear		
Applications of simple linear regression in prediction of new observations.  Lectures, Demonstrations, Discussion, Online Learning, Role Play, Small Group Teaching, Case Studies etc.  Eview Report / Comments  Eview/Feedback  gnature of H.O.D.	Applications of simple linear regression in prediction of new observations.  Lectures, Demonstrations, Discussion, Online Learning, Role Play, Small Group Teaching, Case Studies etc. Provided Report / Comments eview/Feedback gnature of H.O.D.	Applications of simple linear regression in prediction of new observations.  Lectures, Demonstrations, Discussion, Online Learning, Role Play, Small Group Teaching, Case Studies etc., 105 eview/Feedback gnature of H.O.D.	33	19/10/2023 3.00 pm to 4.00 pm		least square estimation of the coefficients, residual calculations		Neg.
Lectures, Demonstrations, Discussion, Online Learning, Role Play, Small Group Teaching, Case Studies etc.  eview/Feedback gnature of H.O.D.	Lectures, Demonstrations, Discussion, Online Learning, Role Play, Small Group Teaching, Case Studies etc., 125 eview Report / Comments eview/Feedback gnature of H.O.D.	Lectures, Demonstrations, Discussion, Online Learning, Role Play, Small Group Teaching, Case Studies etc., 2005 eview Report / Comments eview/Feedback gnature of H.O.D.	34	20/10/2023 10.00 am to 11.00 am		Applications of simple linear regression in prediction of new observations.	*	3250
	THE ROLL OF STREET	A THE POLAR SOLAR	gnature	or H.O.D.		RO	T A	The same of the sa
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	91.30%	
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	98.55%	

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Of Technology (Engg-college)
Mount Poinsur, S.V.P. Road,
Borivli (West), Mumbai -400 103.

# Internal Assessment Test Question Paper-Sample

Electrical

	St. Francis Institute of Technology (Engg. College) Internal Assessment Test-I Academic Year: 2023-2024				
Branch: Electrical	Division: A	Year: B.E. Semester: VII			
Subject: EEC 701 : Electrical Drives	& Control	Time: 10:00 A.M 11:00 A.M.			
Date: 14.08.2023  Marks: 20 Marks		No. of Pages: 01			

Instructions: Candidates should read carefully the instructions printed on the question paper and on the cover of the Answer Book, which is provided for their use.

Note the following instructions.

. All questions are compulsory.

2. Draw neat diagrams wherever necessary.

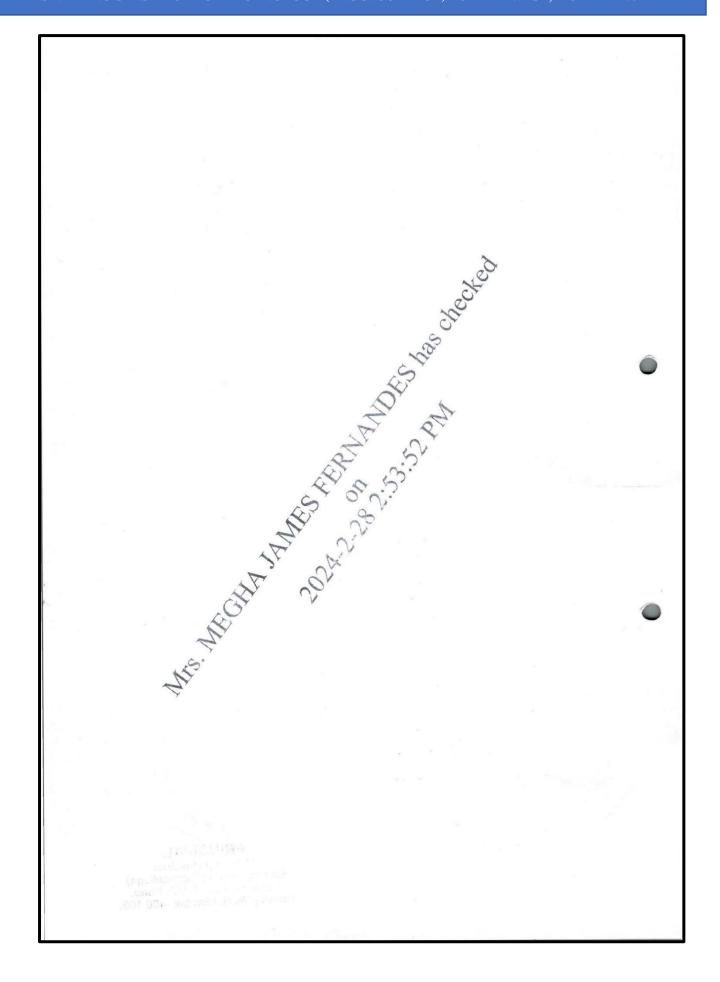
3. Verite everything in ink (no pencil) only.

4.	Assume	data,	if missing,	with	justification.
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Q.1.	Attempt any five.	Marks	Course Outcome	BL	PI
a.	What are the main factors which decide the choice of electrical drive for a given application?	2M	CO 1	BL5	1.5.1
b	List the advantages of Electrical Drives.	2M	CO 1	BL1	1.6.1
C.	What are the desired functions of a power modulator?	2M	CO 1	BLI	1.0.1
·1.	State and explain with neat sketches the three main classes of motor duty cycle.	2M	CO 2	BL4	4.4.1
O.	Derive an equation to determine motor rating for fluctuating and intermittent loads.	2M	CO 2	BL6	4.4.1
f.	A motor of smaller rating can be selected for a short time duty.  Justify.	2M	CO 2	BL5	3.6.1
Q.2.	Answer any one question				
a.	Choose an application and explain with neat diagrams the multi quadrant operation of an electrical drive. Mention the speed torque conventions in at the four quadrants	5M	CO 1	BL5	5.6.1
<b>5.</b>	Park!	534			5.6.1
Q.3.	Answer any one question				
a.	Derive the thermal model of motor for heating and cooling and draw the heating and cooling curves.	5M	CO 2	BL3	1.3.1
	The motor operates on a periodic duty cycle in which it is clutched to its load for 10 minutes and declutched to run on no-load for 20 minutes. Minimum temperature rise is 40 °C. Heating and cooling time constant are equal and have a value of 60 minutes. When load is declutched continuously the temperature rise is 15 °C.	51/A			1.3.1

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# Experiment List – Sample

# St. Francis Institute of Technology <u>Department of Information Technology</u>

Academic Year: 2023-24

Semester: IV

Class / Branch / Division: SE/IT/A&B

Subject: UNIX Lab

### LIST OF EXPERIMENTS

110	LIST OF EAPE				
Sr. No.	Title of Experiment		PO addressed	PSO addressed	Week number
110.		addressed	addiessed	addressed	Indinoci
	A. To study UNIX Operating System. B. To install UNIX Operating System (Ubuntu OS)	L402.4	PO3	PSO2	W1
2	To study and implement UNIX general purpose utility commands.	L402.1	PO1	PSO2	W2
3	To study and implement UNIX Networking commands.	L402.2	PO2, PO4	PSO2	W3
4	To study UNIX file system and Implement File and Directory Permissions.	L402.3	PO3	PSO2	W4
5	Study and Implementation of Basic system administrative tasks.	L402.4	PO4	PSO2	W5
6	A. To study security tools and best practices in Linux (Ubuntu) operating system (Topic beyond syllabus)	L402.6	PO2, PO3	PSO2	W6
	B. Study of various Text Editors.	L402.4	PO3,PO4	PSO2	W6
7	Shell script programming-I	L402.5	PO2, PO3	PSO2	W7
8	Shell script and sed programming	L402.5	PO2, PO3	PSO2	W8
9	A. grep/egrep script programming.	L402.6	PO2, PO3	PSO2	W9
	B. Advanced filtering with awk scripts.	L402.6	PO2, PO3	PSO2	W9
10	Text processing using perl scripts.	L402.6	PO2, PO3	PSO2	W10
11	To implement Mini Project.	L402.1,L402.2 ,L402.3,L402. 4,L402.5, L402.6	PO1, PO2, PO3, PO4, PO9, PO10	PSO2, PSO4	WH

Lab Outcomes

lents will be abl	e to
L402.1	Understand and apply UNIX general purpose commands. [PO1] [PSO2]
L402.2	Apply UNIX networking commands and analyze the network traffic. [PO2, PO4] [PSO2]
L402.3	Apply and change the ownership and file permissions using advance UNIX commands.[PO2] [PSO2]
L402.4	Understand UNIX OS and implement installation of UNIX OS and to evaluate system performance using various administrative commands. [PO3, PO4] [PSO2]
L402.5	Develop shell scripts and sed programming. [PO2, PO3] [PSO2]
L402.6	Apply simple filters and develop scripts using advanced filters. [ PO2,PO3,PO9,PO10] [PSO2,PSO4]

Ms. Palyoti Dsilva and Ms. Pratibha Rane (Subject In-charges)

Dr. Prachi Raut (HOD-INFT)

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### St. Francis Institute of Technology **Department of Information Technology**

Academic Year: 2023-24

Semester: VI

Class / Branch / Division: TE/IT/A&B

Subject: Data Mining and Business Intelligence/Business Intelligence Lab List of Experiments

Sr. No	Title of Experiment	CO Address ed	PSOs Addressed	PO Addressed
1	Problem Definition for a Data Warehouse, and Construction of Star/ Snowflake Schema	C601.1	PSO1	PO1,PO2,
2	Data Exploration using Java / Python / R	C601.2	PSO1	PO1,PO2,PO3,PO4
3	Data preprocessing using WEKA	C601.3	PSO1	PO1,PO2,PO3.PO4
4	To implement a classifier- Decision tree using open source tool WEKA/ORANGE	C601.4 C601.5	PSO2, PSO3	PO2,PO3,PO4,PO6
5	a) To implement a classifier- Naïve Bayes using any one Language (JAVA/Python)     b) To implement a classifier-Adaboost using any one Language (JAVA/Python) (TBS)	C601.4 C601.5	PSO2, PSO3	PO2.PO3,PO4,
6	To implement any one clustering algorithm (K-means, Agglomerative, Divisive) using any one Language (JAVA/Python) (Mini Project Mid Sem Evaluation)	C601.4	PSO2. PSO3	PO2,PO3,PO4,PO6
7	To implement any one of the clustering algorithm (K-means, Agglomerative, Divisive) using open source tool WEKA/ORANGE	C601.4	PSO2, PSO3	PO2,PO3,PO4,PO6
8	To implement any one Association mining (Apriori, FPM) using open source tool WEKA/ORANGE	C601.4 C601.5	PSO2, PSO3	PO2,PO3,PO4
9	To implement Association Mining (Apriori, FPM) in data mining using any one Language (JAVA/Python)	C601.4 C601.5	PSO2, PSO3	PO2,PO3,PO4
10	Case study on open source BI tool (Pentaho, Rapid Miner, Tableau Qlikview)	C601.6	PSO2, PSO4	PO3, PO4, PO5,PO8,PO9,PO12
11	Implementation of Business Intelligence tool with Mini Project(Mini project End sem evaluation)	C601.1 C601.6	PSO2, PSO4	PO3, PO4, PO5,PO8,PO9.PO12

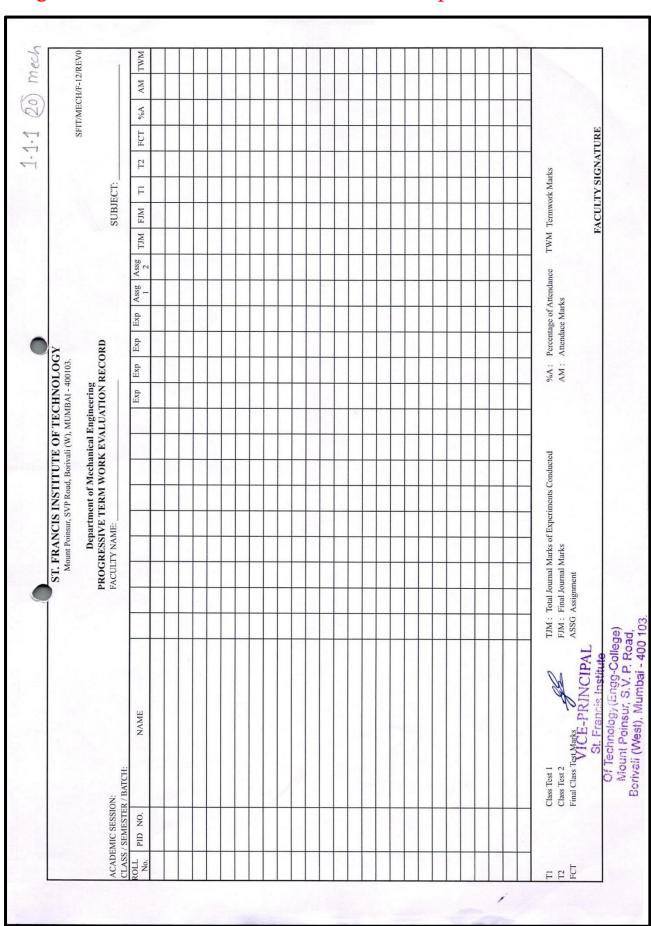
Course O	utcomes
C601.1	Demonstrate an understanding of the importance of data warehousing and data mining and the principles of business intelligence. (PO1,PO2)
C601.2	Organize and prepare the data needed for data mining using preprocessing  Techniques and perform exploratory analysis of the data to be used for mining (PO1, PO2, PO4)
C601.3	Design and Implement various classification data mining techniques and apply metrics to measure its performance (PO3,PO4)
C601.4	Design and Implement various clustering data mining techniques on large data sets (PO2,PO3,PO4,PO6)
C601.5	Design and Implement various frequent data mining techniques and formulate association rules on large data sets
C601.6	Apply BI to solve practical problems: Analyze the problem domain, use the data collected in enterprise apply the appropriate data mining technique, interpret and visualize the results and provide decision support. (PO3, PO4, PO5)

Ms Shree Jaswal Ms.Prajyoti Dsilva (Subject Incharge)

Dr. Prachi Raut (HOD-INFT)

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## Progressive Term Work Marksheet-ISO Template



### Course File Index

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Computer Engineering (CMPN) Department

### Course File

Class: TECMPN

Subject

Sem: V

Academic Year: 2023-24

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3	University End Sem Examination	
	a. Question Paper Analysis	
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	Final Report by Faculty	

Signature of HOD / Coordinator

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Computer Engineering (CMPN) Department

### Course File

Class: SECMPN

Sem: IV

Subject

Academic Year: 2023-24

### CONTENTS OF COURSE FILE

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	b. Solution and Scheme of marking	
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2	Internal Assessment Test (IAT)	
	a. IAT1 Analysis	
	b. IAT2 Analysis	
3	University End Sem Examination	
	a. Question Paper Analysis	
	b. Result Analysis	
4	Final Report by Faculty	

Signature of HOD / Coordinator

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