ANNA UNIVERSITY, CHENNAI NON-AUTONOMOUS AFFILIATED COLLEGES **REGULATIONS 2021** CHOICE BASED CREDIT SYSTEM **B. E. CIVIL ENGINEERING** CURRICULUM AND SYLLABI FOR SEMESTERS I TO VIII

S.	COURSE	COURSE TITLE	CATE-		RIO	DS EEK	TOTAL	CREDITS
NO.	CODE	Contraction of the second	GORY	L	T	P	PERIODS	CONSIDERATION OF CONSIDER
1.	IP3151	Induction Programme			+			0
THEC	DRY	We want the weather and the	CALCO VALUE			1000		
2.	HS3152	Professional English - I	HSMC	3	0	0	3	3
3.	MA3151-	Matrices and Calculus	BSC	3	1	0	4	4
4.	PH3151	Engineering Physics	BSC	3	0	0	3	3
5,	CY3151	Engineering Chemistry	BSC	3	0	0	3	3
6.	GE3151	Problem Solving and Python Programming	ESC	3	٥	0	3	3
7.	GE3152	தமிழர் மரபு /Heritage of Tamils	HSMC	1	0	0	1	1
PRA	CTICALS	·	14	_	-	1		
8.	GE3171	Problem Solving and Python Programming Laboratory	ESC	0	0	4	4	2
9.	BS3171	Physics and Chemistry Laboratory	BSC	0	0	4	4	2
10.	GE3172	English Laboratory ³	EEC	0	0	2	2	1
	- Constanting	en set en	TOTAL	16	1	10	27	22

¹ Skill Based Course

SEMESTER II

S.	COURSE	COURSE TITLE	CATE-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RIOD	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TOTAL	CREDITS
NO.	CODE	COURCE THEE	GORY	L	T	P	PERIODS	1-2.25204200
THE	ORY					1911		1
1.	HS3252	Professional English - II	HSMC	2	0	0	2	2
2.	MA3251	Statistics and Numerical Methods	BSC	3	1	0	4	4
3.	PH3201	Physics for Civil Engineering	BSC	3	0	0	3	3
4.	BE3252	Basic Electrical, Electronics and Instrumentation Engineering	ESC	3	0	0	3	3
5.	GE3251	Engineering Graphics	ESC	2	0	4	6	4
6.		NCC Credit Course Level 1*		2	0	0	2	2"
7.	GE3252	தமிழகும் தொழில்நுட்பமும் / Tamils and Technology	HSMC	1	0	0	1	1
PRA	CTICALS	La sur de la	-					
8.	GE3271	Engineering Practices Laboratory	ESC	0	0	4	4	2
9.	BE3272	Basic Electrical, Electronics and Instrumentation Engineering Laboratory	ESC	0	0	4	4	2
10.	GE3272	Communication Laboratory / Foreign Language	EEC	0	0	4	4	2
			TOTAL	14/	190	F-ft,	31	23

tudents only. The grad e considered for the co dents will be recorded * NCC Credit Course level 1 in in the Mark Sheet, however U

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Skill Based Course

1000

SEMESTER III

\$	COURSE	COURSE TITLE	CATE	N	1215 1216 1216	an Ex	ATTOTAL CONTACT	caesny
NO.	CODE		SCRI	L	1	\$	REACCE	
THEO	RT.			A Prove a				
1	144835-	Transforms and Partial Differential Equations	850	\$	383	5	x	ŧ
2	1/(E.236*	Engrieering Wersteines	ESC.	1	1	\$	3	3
3	CENSE	Flat Merchanist	11.	3	1	1	ă.	€.
3 4	053312	Construction Wateriast and Technology	25	1	-	4	4	3
-	053303	Nater Sussiy and Meslewater Expressing	955.	4	1	ž	۴.	£
5	122351	Surveying and Leveling	2%	\$	5.	5	÷.	<u>\$</u>
PFAC	CTICALS							
7	023381	Surveying and Leveling Laboratory	23.	4	-		3	15
8	CEBIS	Neter and Mastewater Analysis Lappratory	×:.	10125	\$	30	3	15
9	GENGES	Professional Development 4	884	120	1	2	ž	10 A
			TTAL	-15	5	1	23	24

¹ Skill Based Course

SEMESTER N

S.	COURSE	COURSE TITLE	CATE GORY		RICC P WE		TOTAL CONTACT	CREDITS
NO.	CODE		same -	ų	7	\$	PERIODS	-
THE	ORY				-			
194	CE34(1	Applied Hydrauliot Engineering	805	32	1	2	£	÷
2	CE3472	Svengt of Materials	PSC	12	32	۰.	3	3
2	OE3403	Concrete Technology	PCC	1	2	1		3
4	CE3434	Sol Mechanica	PCC.	1	- 60	4	3	1
5	083405	Highway and Railway Etionetenic	PCL		1	¢.	3	3
8	GE3491	Environmental Sciences and Sustainability	890	2	5	10	2	2
7	1	NOC Credit Course Level 2ª		3		-	3	\$ F:
PRAC	TICALS		- Carro	100				Land III Andre Marchael
8	CESCIS	Hypraulic Engineering Laboratory	PCC	6		3	4	: 5
9	CE3412	Materials Testing Laboratory	200	5	1	4	4	2
190	CE3413	Soil Mechanics Laboratory	255	1	0	3	1	15
			TOTAL	17	1	10	25	23

* NOC Credit Course level 2 is offened for NOC students only. The grades earned by the students will be recorded in the Wark Disert, together the same shall not be considered for the computation of CGPA.

25





SEMESTER VII/VIII*

S. NO.	COURSE	COURSE TITLE	CATE		RIO R WE		TOTAL	CREDITS
1997	0.0000000	and the second sec	GORY	L	T	P	PERIODS	
THEO	RY				-			
1.	CE3701	Estimation, Costing and Valuation Engineering	PCC	3	0	0	3	3
2.	AI3404	Hydrology and Water Resources Engineering	PCC	3	0	0	3	3
3.	GE3791	Human Values and Ethics	HSMC	2	0	0	2	2
4.	GE3752	Total Quality Management	HSMC	3	0	0	3	3
5.		Open Elective - II**	OEC	3	0	0	3	3
6.		Open Elective - III***	OEC	3	0	0	3	3
7,		Open Elective - IV***	OEC	3	0	0	3	3
-	-	No. M. Constanting of the	TOTAL	19	0	2	21	20

"If students undergo internship in Semester VII, then the courses offered during semester VII will be offered during semester VIII

"Open Elective – II shall be chosen from the emerging technologies ""Open Elective III and IV (Shall be chosen from the list of open electives offered by other Programmes

SEMESTER VIII/VII*

S.	COURSE	COURSE TITLE	CATE	1.5.5			TOTAL	CREDITS
NO.	CODE		GORY	L	T	P	PERIODS	
PRAC	TICALS					2		
1.	CE3811	Project Work/Internship	EEC	0	0	20	20	10
	a constant and a second and a	and the second se	TOTAL	0	0	20	20	10

"If students undergo internship in Semester VII, then the courses offered during semester VII will be offered during somester VIII

TOTAL CREDITS: 166

MANDATORY COURSES I*

S.	COURSE	SE COURSE TITLE CATE GORY		PERIODS PER WEEK			CONTACT
NO.			GORT	L	T	P	PERIODS
1.	MX3081	Introduction to Women and Gender Studies	MC	3	0	0	3
2.	MX3082	Elements of Literature	MC	3	0	0	3
3.	MX3083	Film Appreciation	MC	3	0	0	3
4.	MX3084	Disaster Risk Reduction and Management	MC	3	0	0	3

*Mandatory Courses are offered as Non-Credit Courses







ANNA UNIVERSITY, CHENNAI NON-AUTONOMOUS AFFILIATED COLLEGES REGULATIONS 2021 CHOICE BASED CREDIT SYSTEM B. E. MECHANICAL ENGINEERING CURRICULUM AND SYLLABI FOR I TO VIII SEMESTERS

SL.	COURSE	COURSE TITLE	CATE - PERIO		NEE		TOTAL	CREDITS
NO.	- Andrews		GORT	L	T	P	PERIODS	145-00.0010941
1.	IP3151	Induction Programme	1 201	-	-	-		0
THEO	RY					_		*
2.	HS3152	Professional English - 1	HSMC	3	0	0	3	з
3.	MA3151	Matrices and Calculus	BSC	3	1	0	4	4
4.	PH3151	Engineering Physics	BSC	3	0	ū	3	3
5.	CY3151	Engineering Chemistry	BSC	3	0	0	3	3
6.	GE3151	Problem Solving and Python Programming	ESC	3	0	٥	3	3
7.	GE3152	தமிழர் மரபு/Heritage of Tamils	HSMC	1	0	0	1	1
PRAC	TICAL		31	2				1997 - Contra 19
7	GE3171	Problem Solving and Python Programming Laboratory	ESC	0	0	4	4	2
8	BS3171	Physics and Chemistry Laboratory	BSC	0	0	4	4	2
9	GE3172	English Laboratory ¹	EEC	0	0	2	2	1
	Charles and the		TOTAL	16	1	10	27	22

\$ Skill Based Course

SEMESTER II

		36	MEDIEKI					
SL.	COURSE	COURSE TITLE	CATE -		WEEP		TOTAL	CREDITS
NO.	CODE		USAT	L	T	P	PERIODS	
THEO	RY							
1.	HS3252	Professional English - II	HSMC	2	0	0	2	2
2.	MA3251	Statistics and Numerical Methods	BSC	3	1	0	4	4
3.	PH3251	Materials Science	BSC	3	0	0	3	3
4.	BE3251	Basic Electrical and Electronics Engineering	ESC	3	0	0	3	3
5.	GE3251	Engineering Graphics	ESC	2	0	4	6	4
6,	GE3252	தமிழரும் தொழில்துட்பமும் / Tamils and Technology	HSMC	4	0	0	1	1
7.		NCC Credit Course Level 1*		2	0	0	2	2
PRACT	TICAL	Martin and Anna and A		-				
8.	GE3271	Engineering Practices Laboratory	ESC	0	0	4	4	2
9.	BE3271	Basic Electrical and Electronics Engineering Laboratory	ESC	٥	0	4	4	2
10.	GE3272	Communication Laboratory / Foreign Language 3	EEC	0	0	4	4	2
10.05	NACES NO. 10	1 designed and the second s	TOTAL	14	1	16	31	23

* NCC Credit Course level 1 is offered for NCC students only. The grades earned by the students will be recorded in the Mark Sheet, however the same shall not be considered for the computation of CGPA.
* Skill Based Course





SL.	COURSE	COURSE TITLE	CATE		R W		TOTAL	CREDITS
NO.	CODE		GORY	L	τ	P	PERIODS	
THE	ORY					_		
1,	MA3351	Transforms and Partial Differential Equations	BSC	3	1	0	4	4
2.	ME3351	Engineering Mechanics	ESC	3	0	0	3	3
2.	ME3391	Engineering Thermodynamics	PGC	3	0	0	3	3
4	CE3391	Fluid Mechanics and Machinery	ESC	3	1	0	4	4
5.	ME3392	Engineering Materials and Metallurgy	PCC	3	ũ	0	3	3
6	ME3393	Manufacturing Processes	PCC.	3	0	0	3	3
PRA	CTICALS							
7	ME3381	Computer Aided Machine Drawing	ESC	0	0	4	4	2
ß	ME3382	Manufacturing Technology Laboratory	PCC	0	0	4	.4	2
9	GE3361	Professional Development ⁸	EEC	0	0	2	2	1
	- And a state of the		TOTAL	18	2	10	30	25

SEMESTER III

SEMESTER IV

\$ Shill Based Course

SL.	COURSE	COURSE TITLE	CATE		R WI		CONTACT	CREDITS
NO.	CODE	Country in se	GORY	L	T	P	PERIODS	
THE	ORY							
1	ME3491	Theory of Machines	PCC	3	0	0	3	3
2	ME 3451	Thermal Engineering	PCC	4	0	.0	4	- 4
3	ME 3497	Hydraulum and Pheumatica	PCC	3	-0	0	3	3
4	ME 3493	Manufacturing Technology	PCC	2	0	12	3	3
4 5	CE 3491	Strength of Materials	PCG	3	0	0	3	- 3
6	GE3451	Environmental Sciences and Sustainability	MSC	2	٥	0	2	2
7	1	NCC Credit Course Level 2"		3	0	0	3	3#
PRA	CTICALS	11153						
8	CE3481	Strength of Materials and Fluid Machinery Laboratory	POC	0	0	4	4	
9	ME3461	Thermal Engineering Laboratory	PCC	0	0	4	4	2
-			TOTAL	18	0	8	26	22

NCC Credit Course level 2 is offered for NCC students only. The grades earned by the students will be recorded in the Mark Sheet, however the same shall not be considered for the computation of CGPA.





S.	COURSE	COURSE TITLE	CATE	PERIODS PER WEEK			CONTACT	CREDITS
NO.	CODE	e e e e e e e e e e e e e e e e e e e	GORY	L	T	P	PERIODS	1.4900.0000
THE	ORY							
1	ME3791	Mechatronics and IoT	PCC	3	0	0	3	3
2	ME3792	Computer Integrated Manufacturing	PCC	3	0	0	3	3
3	GE3791	Human Values and Ethics	HSMC	2	0	0	2	2
4	GE3792	Industrial Management	HSMC	3	0	0	3	3
5.		Open Elective - II**	OEC	3	0	0	3	3
6		Open Elective - Ill***	OEC	3	0	0	3	3
5 6 7		Open Elective - IV***	OEC	3	0	0	3	3
PRA	CTICALS							
8	ME3781	Mechatronics and IoT Laboratory	PCC	0	0	4	4	2
9	ME3711	Summer Internship*	EEC	0	0	0	0	3
	and the state of the second		TOTAL	20	0	4	24	23

SEMESTER VIL / VIII*

#Two weeks Summer Internship carries one credit and it will be done during VI semester summer vacation and

same will be evaluated in VII semester.

"If students undergo internship in Semester VII, then the courses offered during semester VII will be offered during semester VIII

"Open Elective - 8 shall be chosen from the emerging technologies.

***Open Elective III and IV (Shall be chosen from the list of open electives offered by other Programmes).

SEMESTER VIII /VII'

S.	COURSE	COURSE TITLE	CATE	10000000	NEEK	1	CONTACT	CREDITS
NO.	CODE		GORY	L	T	P	PERIODS	1.0.000
PRA	CTICALS		and the second		1			10
1	ME3811	Project Work / Internship	EEC	12.	.0	20	20	1
	Protoinal de la	Separation and a second second second	TOTAL	0	0	20	20	10

"If students undergo internship in Semester VII, then the courses offered during semester VII will be offered during semester VIII.

TOTAL CREDITS:167







MANDATORY COURSES I*

s.	COURSE	COURSE TITLE	CATE)DS TEEK	TOTAL CONTACT PERIODS
NO.	CODE		GORY	L	T	P	
1.8	MX3081	Introduction to Women	MC	3	0	0	3
		and Gender Studies					
2.	MX3082	Elements of Literature	MC	3	0	0	3
3	MX3083	Film Appreciation	MC	3	0	0	3
4	MX3084	Disaster Risk Reduction and Management	MC	3	0	Ö	3

*Mandatory Courses are offered as Non-Credit courses

s .	COURSE	COURSE TITLE	CATE	PERIODS PER WEEK			TOTAL
NO.	CODE		GORT	1.	T	P	PERIODS
18	MX3085	Well Being with Traditional Practices - Yoga, Ayurveda and Siddha	MC	3	0	0	3
2.	MX3086	History of Science and Technology in India	MC	3	0	0	3
3.	MX3087	Political and Economic Thought for a Humane Society	MC	3	0	0	3
4.	MX3088	State, Nation Building and Politics in India	MC	3	0	0	3
5.	MX3089	Industrial Safety	MC	30	0	0	3

MANDATORY COURSES II*

*Mandatory Courses are offered as Non-Credit courses





ANNA UNIVERSITY, CHENNAI NON-AUTONOMOUS AFFILIATED COLLEGES REGULATIONS 2021 CHOICE BASED CREDIT SYSTEM B.E. ELECTRICAL AND ELECTRONICS ENGINEERING CURRICULUM AND SYLLABI FOR SEMESTERS I TO VIII SEMESTER - I

S.	COURSE	COURSE TITLE	CATE-	PERK	OOS I VEEK	PER	CONTACT	CREDITS	
NO.	CODE	10/010/00/87/01/01/17/	GORY	L.	T	P	PERIODS	tease sectories	
1	1P3151	Induction Programme	1992-1993	1	100			0	
THE	ORY				1				
2.	H\$3152	Professional English - I	HSMC	3	0	0	3	3	
3,	MA3151	Matrices and Calculus	BSC	3	dia	0	4	4	
4	PH3151	Engineering Physics	BSC	3	0	0	3	3	
5	CY3151	Engineering Chemistry	BSC	3	0	0	3	3	
6.	GE3151	Problem Solving and Python Programming	ESC	3	0	0	3	3	
7.	GE3152	தமிழர் மரபு THentage of Tamis	HSMC	1	0	0	1	1	
PR	ACTICALS								
8,	GE3171	Problem Solving and Python Programming Laboratory	ESC	0	ð	4	4	2	
9.	BS3171	Physics and Chemistry Laboratory	BSC	Ő	0	4	4	2	
10.	GE3172	English Laboratory ¹	EEC	0	0	2	2	3	
1	a second second second second		TOTAL	16	1	10	27	22	

Skill Based Course

SEMESTER - H

			TALENS & BUILT T	240				
s.	COURSE	COURSE TITLE	CATE-	PERI	ODS I		TOTAL CONTACT	CREDITS
NO.	CODE	35750T05059735575353	GURT	L	T	P	PERIODS	Consecution and
THE	ORY	Service and the service of the servi	and the second		al boltometer			
1.	H\$3252	Professional English - II	HSMC	2	0	0	2	2
2.	MA3251	Statistics and Numerical Methods	BSC	3	1	9	4	A
3.	PH3202	Physics for Electrical Engineering	BSC	3	a	0	3	3
4	BE3255	Basic Civil and Mechanical Engineering	ESC	3	0	0	3	3
5.	GE3251	Engineering Graphics	ESC	2	0	4	6	4
6	EE3251	Electric Circuit Analysis	PCC	3	1	0	4	4
7	C. T. C. L.	NCC Credit Course Level1*	Sec. Sec.	2	0	0	2	2
8	GE3252	தமிழகும் தொழில்துட்பமும் (Tamis and Technology	H\$MC	1	0	0		1
PR	ACTICALS							
8	GE3271	Engineering Practices Laboratory	ESC	0	0	4	4	2
9	EE3271	Electric Circuits Laboratory	PCC	0	0	4	4	2
	GE3272	Communication Laboratory / Foreign Language ⁵	EEC	0	0	4	4	2
-			TOTAL	17	2	16	35	27

NCC Credit Course level 1 is offered for NCC students only. The grades around by the students will be recorded in the Mark Sheet, however the same include be considered for the company Gdy of CGPA.

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S Skill Based Course

1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1200	SEME	STER III			000230-00		
S. NO.	COURSE	COURSE TITLE	CATE	1.	ERIODS		The second second second second	CREDITS
ana ani a			GURT	L	T	P	PERIODS	1-22 60005
THEC	Sector and the sector of the s							-
1	MA3303	Probability and Complex Functions	BSC	з	1	0	4	4
2.	EE3301	Electromagnetic Fields	PCC	3	1	Ó	4	4
3.	EE3302	Digital Logic Circuits	PCC	3	0	0	3	3
4	EC3301	Electron Devices and Circuits	PCC	3	0	Ó	3	3
5.	EE3303	Electrical Machines - I	PCC	3	0	0	3	3
6	CS3353	C Programming and Data Structures	PCC	3	0	0	3	3
PRA	CTICALS					-		10000
7.	EC3311	Electronic Devices and Circuits Laboratory	PCC	0	0	3	3	1.5
8.	EE3311	Electrical Machines Laboratory – I	PCC	0	0	3	3	1.5
9.	CS3362	C Programming and Data Structores Laboratory	PCC	0	0	3	3	1.5
10.	GE3361	Professional Development ⁵	EEC	0	0	2	2	1
			TOTAL	18	2	11	31	25.5

12

\$ Skill Based Course

SEMESTER IV

S. NO.	COURSE		CATE		ERIC R W	DOS EEK	TOTAL CONTACT	CREDITS
	and the second second		GORT	٤.	T	P	PERIODS	100000000000000000000000000000000000000
THE	ORY						terretelesention. Cambuloc.	
1.	GE3451	Environmental Sciences and Sustainability	BSC	2	0	Ò	2	2
2.	EE3401	Transmission and Distribution	PCC	3	0	0	3	3
3.	EE3402	Linear Integrated Circuits	PCC	3	0	0	3	3
4.	EE3403	Measurements and Instrumentation	PCC	3	0	0	3	3
5.	EE3404	Microprocessor and Microcontroller	PCC	Э	0	0	3	3
6.	EE3405	Electrical Machines - II	PCC	3	0	0	3	3
7:		NCC Credit Course Level 2*		3	0	0	3	3
PRAG	TICALS							
8.	EE3411	Electrical Machines Laboratory - II	PCC	0	0	3	3	1.5
9.	EE3412	Linear and Digital Circuits Laboratory	PCC	0	0	3	3	1.5
10.	EE3413	Microprocessor and Microcontroller laboratory	PCC	0	0	3	3	1,5
	and the second second		TOTAL	17	0	9	26	21.5

NCC Credit Course level 2 is offered for NCC students only. The grades earned by the students will be recorded in the Mark Sheet, however the same shellers be considered for the computation of CGPA.





		SEME	STER III					
S.	COURSE	COURSE TITLE	CATE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ERIQ	DDS	TOTAL	CREDITS
NO.	CODE	- All Martine	GORY	L	T	P	PERIODS	
THEC	DRY			disasterio de la composición de la comp				AC 849 (21) 2
t.	MA3303	Probability and Complex Functions	BSC	3	1	0	4	4
2.	EE3301	Electromagnetic Fields	PCC	3	1	0	4	4
З.	EE3302	Digital Logic Circuits	PCC	3	0	0	3	3
4.	EC3301	Electron Devices and Circuits	PCC	3	0	0	3	3
5.	EE3303	Electrical Machines - I	PCC	3	0	0	3	3
6.	CS3353	C Programming and Data Structures	PCC	3	0	0	3	3
PRA	CTICALS							
7.	EC3311	Electronic Devices and Circuits Laboratory	PCC	0	0	3	3	1.5
8.	EE3311	Electrical Machines Laboratory – I	PCC	0	0	3	3	1.5
9.	CS3362	C Programming and Data Structures Laboratory	PCC	0	0	3	3	1.5
10.	GE3361	Professional Development ⁵	EEC	0	0	2	2	1
1287.03	Theorem	Linear strategies and a strategies when the first	TOTAL	18	2	11	31	25.5

\$ Skill Based Course

SEMESTER IV

S.	COURSE	COURSE TITLE	CATE		ERIC R W	DDS EEK	TOTAL CONTACT	CREDITS
NO.	CODE	ooonoe mee	GORY	L	T	P	PERIODS	9-00-00-00-00-00-00-00-00-00-00-00-00-00
THEC	DRY				199910			
1	GE3451	Environmental Sciences and Sustainability	BSC	2	0	0	2	2
2.	EE3401	Transmission and Distribution	PCC	3	0	0	3	3
3.	EE3402	Linear Integrated Circuits	PCC	3	0	0	3	3
4.	EE3403	Measurements and Instrumentation	PCC	3	0	0	3	3
5.	EE3404	Microprocessor and Microcontroller	PCC	3	0	0	3	3
6	EE3405	Electrical Machines - II	PCC	3	0	0	3	3
7.		NCC Credit Course Level 2"		3	0	0	3	3'
PRAC	TICALS				m 275			1
8.	EE3411	Electrical Machines Laboratory - II	PCC	0	0	3	3	1.5
9	EE3412	Linear and Digital Circuits Laboratory	PCC	0	0	3	3	1.5
10	EE3413	Microprocessor and Microcontroller laboratory	PCC	0	0	3	3	1.5
and the	Constant of the		TOTAL	17	0	9	26	21.5

NCC Credit Course level 2 is offered for NCC students only. The grades earned by the students will be recorded in the Mark Sheet, however the same station be considered for the computation of CGPA.





		SEMES	STER VII/V	III Cara				T
S .	COURSE	COURSE TITLE	CATE	PERIODS PER WEEK			TOTAL CONTACT	CREDITS
NO.	CODE		GORY	L	T	Ρ	PERIODS	
THE	ORY				Microso	Logopoly		
1	EE3701	High Voltage Engineering	PCC:	3	G	0	3	3
2	GE3791	Human Values and Ethics	HSMC	2	0	0	2	2
3.		Elective - Management ^e	HSMC	3	0	9	3	3
4.		Open Elective - II**	OEC	3	0	0	3	3
5.	-	Open Elective - III ***	OEC	3	0	6	3	3
6.		Open Elective - IV ***	OEC	3	0	Õ	3	3
7	-	Professional Elective VII	PEC	3	0	0	3	3
1		Francisco and a second for	TOTAL	20	0	0	20	20

"If students undergo internship in Semester VII, then the courses offered during semester VII will be offered during semester VIII.
 *Elective - Management shall be chosen from the Elective Management Courses
 **Open Elective - II shall be chosen from the emerging technologies
 ***Open Elective III and IV (shall be chosen from the list of open electives offered by other Programmes).

SEMESTER VIII/VII'

S.	COURSE	COURSE TITLE	CATE		ERIO R WI		TOTAL CONTACT	CREDITS
NO.	CODE		GORY	L	T	Р	PERIODS	
PRA	CTICALS							
1.	EE3811	Project Work / Internship	EEC	0	0	20	20	10
-			TOTAL	Q	0	20	20	10

"If students undergo internship in Semester VII, then the courses offered during semester VII will be offered during semester VIII.

TOTAL CREDITS: 167



MANDATORY COURSES I'

s.	COURSE	COURSE TITLE	CATE	PERIODS PER WEEK			TOTAL CONTACT
NO.	CODE		GORY	L	T	P	PERIODS
R.	MX3081	Introduction to Women and Gender Studies	MG	3	0	0	3
2.	MX3082	Elements of Literature	MC	3	0	0	-3
3.	MX3083	Film Appreciation	MC	3	0	0	3
	MX3084	Disaster Risk Reduction and Management	MC	3	0	0	3

*Mandatory courses are offered as Non-Credit courses

s.	COURSE	COURSE TITLE	CATE		PER WEEK	TOTAL	
NO.	CODE		GORY	L	T	Ρ	PERIODS
4	MX3085	Well Being with Traditional Practices - Yoga, Ayurveda and Siddha	MC	3	0	0	3
2	MX3086	History of Science and Technology in India	MC	3	0	0	3
3.	MX3087	Political and Economic Thought for a Humane Society	MC	3	0	0	3
4	MX3086	State, Nation Building and Politics in India	MC	3	0	0	3
5.	MX3089	Industrial Safety	MC	3	0	0	3

MANDATORY COURSES II*

"Mandatory courses are offered as Non-Credit courses

ELECTIVE - MANAGEMENT COURSES

SL.	COURSE	COURSE TITLE	CATE		RIOI R WE		TOTAL	CREDITS
NO.	1 10 10 10 10	133.5100.05033344	GORY	L	T	Р	PERIODS	30.01
1.	GE3751	Principles of Management	HSMC	3	0	0	3	3
2.	GE3752	Total Quality Management	HSMC	3	0	0	3	3
3	GE3753	Engineering Economics and Financial Accounting	HSMC	3	0	0	3	3
4,	GE3754	Human Resource Management	HSMC	3	0	0	3	3
5.	GE3755	Knowledge Management	HSMC	3	0	0	3	3
6,	GE3792	Industrial Management	HSMC	3	0	0	3	3



ANNA UNIVERSITY, CHENNAI NON- AUTONOMOUS AFFILIATED COLLEGES REGULATIONS 2021 B. E. COMPUTER SCIENCE AND ENGINEERING CHOICE BASED CREDIT SYSTEM CURRICULUM AND SYLLABI FOR SEMESTERS I TO VIII

SEMESTERI

S. NO.	COURSE	COURSE TITLE	CATE-	PERIODS PER WEEK			TOTAL CONTACT	CREDITS
110.	CODE		GORY	L	Т	P	PERIODS	
1.	IP3151	Induction Programme		+	-			0
THEOR	RY		1			10		
2.	HS3152	Professional English - I	HSMC	3	0	0	3	3
3.	MA3151	Matrices and Calculus	BSC	3	1	0	4	4
4.	PH3151	Engineering Physics	BSC	3	0	0	3	3
5,	CY3151	Engineering Chemistry	BSC	3	0	0	3	3
6.	GE3151	Problem Solving and Python Programming	ESC	3	0	0	3	3
7.	GE3152	தமிழர் மரபு Heritage of Tamils	HSMC	1	0	0	1	1
PRAC	TICALS		a second					
8.	GE3171	Problem Solving and Python Programming Laboratory	ESC	0	0	4	4	2
9.	BS3171	Physics and Chemistry Laboratory	BSC	0	0	4	4	2
10.	GE3172	English Laboratory ¹	EEC	0	0	2	2	1
	-	Constant of the second second	TOTAL	16	1	10	27	22

\$ Skill Based Course

SEMESTER II

S.	COURSE	COURSE TITLE	CATE-		WEEK		TOTAL CONTACT	CREDITS 2 4 3 3 4 3 1 2
NO.	CODE		GORY	L	T	P	PERIODS	
THEOP	RY.							
1.	HS3252	Protessional English - II	HSMC	2	0	0	2	2
2.	MA3251	Statistics and Numerical Methods	BSC	3	1	0	4	4
3.	PH3256	Physics for Information Science	BSC	3	0	0	3	3
4.	BE3251	Basic Electrical and Electronics Engineering	ESC	3	٥	0	3	3
5.	GE3251	Engineering Graphics	ESC	2	0	4	6	
ŝ.	CS3251	Programming in C	PCC	3	0	0	3	3
7.	GE3252	தமிழகும் தொழில்துட்பமும் /Tamils and Technology	HSMC	,	0	0	'	1
		NCC Credit Course Level 1*	· ·	2	0	0	2	2*
RACT	CALS		e					
COMO I	GE3271	Engineering Practices Laboratory	ESC	0	0	4	4	2
	CS3271	Programming in C Laboratory	PCC	0	0	4	4	2
-		Communication Laboratory / Foreign Language ³	EEC	0	0	4	4	2
-	the second		TOTAL	17	1	16	34	26

NCC Credit Course level 1 in the share of students only. The grades remain to the students will be recorded

In the Mark Shoet, how \$ Skill Based Course



		SEME	STER III			1.1-1-1	100000000000000000000000000000000000000	
S.	COURSE	COURSE TITLE	CATE	1.115	ERIC	DDS	CONTACT	CREDITS
NO.	CODE	0.010133334000000100000000	GORY	L	T	Ρ	PERIODS	
THE	DRY							
1.	MA3354	Discrete Mathematics	BSC	3	1	0	4	4
2.	CS3351	Digital Principles and Computer Organization	ESC	3	0	2	5	4
3.	CS3352	Foundations of Data Science	PCC	3	0	0	3	3
4.	CS3301	Data Structures	PCC	3	0	0	3	3
5.	CS3391	Object Oriented Programming	PCC	3	0	0	3	3
PRA	CTICALS	1						
6.	CS3311	Data Structures Laboratory	PCC	0	0	3	3	1.5
7.	CS3381	Object Oriented Programming Laboratory	PCC	0	0	3	3	1.5
8.	CS3361	Data Science Laboratory	PCC	0	0	4	4	2
9.	GE3361	Professional Development ¹	EEC	0	0	2	2	1
19453	1	Dassage	TOTAL	15	1	14	30	23

¹Skill Based Course

SEMESTER IV

S.	COURSE	COURSE TITLE	PATE	ER WEEK		TOTAL	CREDITS	
NO.	CODE		GORT	L	T	Р	PERIODS	
THE	DRY							1
1.	CS3452	Theory of Computation	PCC	3	0	0	3	3
2.	CS3491	Artificial Intelligence and Machine Learning	PCC	3	0	2	5	4
3.	CS3492	Database Management Systems	PCC	3	0	0	3	3
4.	CS3401	Algorithms	PCC	3	0	2	5	4
5.	CS3451	Introduction to Operating Systems	PCC	3	0	0	3	3
6.	GE3451	Environmental Sciences and Sustainability	BSC	2	0	0	2	2
7.		NCC Credit Course Level 2*		3	0	0	3	3 *
PRAC	TICALS					_		
8.	CS3461	Operating Systems Laboratory	PCC	0	0	3	3	15
9.	CS3481	Database Management Systems Laboratory	PCC	0	0	3	3	1.5
			TOTAL	20	0	10	30	22

* NCC Credit Course level 2 is offered for NCC students only. The grades earned by the students will be recorded in the Mark Sheet, however the same shall not be considered for the computation of CGP

S. NO.	COURSE	COUDEE TITLE	CATE GORY	PERIODS PER WEEK			CONTACT	CREDITS
NO.	CODE			L	Т	P	PERIODS	
THE	ORY					1		
1.	GE3791	Human Values and Ethics	HSMC	2	0	0	2	2
2.		Elective - Management*	HSMC	3	0	0	3	3
3.		Open Elective - II**	OEC	3	0	0	3	3
4.		Open Elective - III**	OEC	3	0	0	3	3
5.		Open Elective - IV**	OEC	3	0	0	3	3
PRA	CTICALS					n===		
6,	CS3711	Summer internship	EEC	0	0	0	0	2
			TOTAL	14	0	0	14	16

SEMESTER VII / VIII*

*If students undergo internship in Semester VII, then the courses offered during semester VII will be offered during semester VIII.

** Open Elective II - IV (Shall be chosen from the list of open electives offered by other Programmes).

*Elective - Management shall be chosen from the Elective Management courses.

SEMESTER VIII /VII*

S. NO	COURSE	COURSE TITLE	CATE	1111156	PERIODS PER WEEK		TOTAL	CREDITS
	CODE		GORY	L	T	P	PERIODS	0.000746882105
PRA	CTICALS							
1.	CS3811	Project Work/Internship	EEC	0	0	20	20	10
-			TOTAL	0	0	20	20	10

*If students undergo internship in Semester VII, then the courses offered during semester VII will be offered during semester VIII.

TOTAL CREDITS: 162

ELECTIVE - MANAGEMENT COURSES

	COURSE	COURSE TITLE	CATE	10000		EEK	TOTAL	CREDITS
	CODE		GORY	L	T	P	PERIODS	
1.	GE3751	Principles of Management	HSMC	3	0	0	3	3
2.	GE3752	Total Quality Management	HSMC	3	0	0	3	3
3.	GE3753	Engineering Economics and Financial Accounting	HSMC	3	0	0	3	3
4.	GE3754	Human Resource Management	HSMC	3	0	0	3	3
5.	GE3755	Knowledge Management	HSMC	3	0	0	3	3
6.	GE3792	Industrial ways ment	HSMC	3	1	OFEN	3	3

MANDATORY COURSES I'

S. NO.	COURSE	COURSE TITLE	CATE	CORY PER WEEN	PER WEEK CONTAG		TOTAL	and the second second second
	CODE		GORT	L	т	P	PERIODS	
1.	MX3081	Introduction to Women and Gender Studies	MC	3	0	0	3	0
2.	MX3082	Elements of Literature	MC	3	0	0	3	0
3.	MX3083	Film Appreciation	MC	3	0	0	3	0
4,	MX3084	Disaster Risk Reduction and Management	MC	3	0	0	3	0

*Mandatory Courses are offered as Non-Credit Courses

MANDATORY COURSES II'

S.	COURSE	COURSE TITLE	CATE	1.07	120000	DDS	TOTAL	CREDITS
NO.	CODE	Restant Accurate	GORY	L	T	P	PERIODS	
1,	MX3085	Well Being with Traditional Practices - Yoga, Ayurveda and Siddha	MC	3	0	0	3	0
2,	MX3086	History of Science and Technology in India	MC	3	0	0	3	0
3.	MX3087	Political and Economic Thought for a Humane Society	MC	3	0	0	з	0
4.	MX3088	State, Nation Building and Politics in India	MC	3	0	0	3	0
5.	MX3089	Industrial Safety	MC	3	0	0	3	0

*Mandatory Courses are offered as Non-Credit Courses





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ANNA UNIVERSITY, CHENNAL NON- AUTONOMOUS AFFILIATED COLLEGES **REGULATIONS 2021 B. TECH. INFORMATION TECHNOLOGY** CHOICE BASED CREDIT SYSTEM CURRICULUM AND SYLLABI FOR SEMESTERS I TO VIII SEMESTER I

S. NO.	COURSE	COURSE TITLE	CATE-	PEP	WEEK		CONTACT	CREDITS
110.	CODE	Contraction of the second second	GORY	L	T	P	PERIODS	
1	IP3151	Induction Programme		1.		-		0
THEO	RY			-				-
2	H\$3152	Professional English - I	HSMC	3	0	0	3	3
3.	MA3151	Matrices and Calculus	BSC	3	1	0.	4	4
4	PH3151	Engineering Physics	BSC	3	0	0	3	3
5.	CY3151	Engineering Chemistry	BSC	3	0	0	3	3
6.	GE3151	Problem Solving and Python Programming	ESC	3	0	0	3	3
7.	GE3152	தமிழர் மரபு Aleritage of Tamils	HSMC	1	0	0	1	1
PRAC	TICALS							
8.	GE3171	Problem Solving and Python Programming Laboratory	ESC	0	0	4	4	2
9.	BS3171	Physics and Chemistry Laboratory	BSC	0	0	4	4	2
10.	GE3172	English Laboratory ¹	EEC	0	0	2	2	1
			TOTAL	16	1	10	27	22

⁵ Skill Based Course

SEMESTER II

S.	COURSE	COURSE TITLE	CATE-	PERIODS PER WEEK			CONTACT	CREDITS
NO.	CODE	2017/02/02/02/02/02/02/02/02/02/02/02/02/02/	GORY	L	T	P	PERIODS	1200000000
THEO	RY				3-0-1			10
1.	HS3252	Professional English - II	HSMC	2	0	0	2	2
2.	MA3251	Statistics and Numerical Methods	BSC	3	1	0	4	4
3.	PH3256	Physics for Information Science	BSC	3	0	0	3	3
4.	BE3251	Basic Electrical and Electronics Engineering	ESC	3	0	0	3	3
5.	GE3251	Engineering Graphics	ESC	2	0	4	6	4
6.	CS3251	Programming in C	PCC	3	0	0	3	3
7.	GE3252	தமிழரும் தொழில்துட்பமும் /Tamis and Technology	HSMC	1	0	0	1	1
8.		NCC Credit Course Level 1*		2	0	0	2	2"
PRAC	TICALS							
9.	GE3271	Engineering Practices Laboratory	ESC	0	0	4	4	2
10.	CS3271	Programming in C Laboratory	PCC	0	0	4	4	2
11.	GE3272	Communication Laboratory / Foreign Language ³	EEC	0	0	4	4	2
		AND ADD DO TO ADD DO	TOTAL	17	1	16	34	26

*NCC Credit Course level 1 is offered for NCC students only. The grades earned by the students will be recorded in the Mark S CGPA. the same shall not be conside computation of

⁴ Skill Based Course



		SEME	STER III	0.05			TOTAL	1																				
S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PER WEEK		FER HELL		PER WEEK		PER WEE				PER WEEK	PER WEEK		CONTACT	CREDIT										
THE	ORY	1				-																						
1.	MA3354	Discrete Mathematics	BSC	3	1	0	4	4																				
2.	CS3351	Digital Principles and Computer Organization	ESC	3	0	2	5	4																				
3.	CS3352	Foundations of Data Science	PCC	3	0	0	3	3																				
4.	CD3291	Data Structures and Algorithms	PCC	3	0	0	3	3																				
5.	CS3391	Object Oriented Programming	PCC	3	0	0	3	3																				
PRA	CTICALS				_			1																				
6.	CD3281	Data Structures and Algorithms Laboratory	PCC	0	0	4	4	2																				
7.	CS3381	Object Oriented Programming Laboratory	PCC	0	0	3	3	1.5																				
8.	CS3361	Data Science Laboratory	PCC	0	0	4	4	2																				
9.	GE3361	Professional Development ⁵	EEC	0	0	2	2	1																				
100	SE3001		TOTAL	15	1	15	31	23.5																				

* Sk	ill Based Course	S	EMESTER IV
S. NO.	COURSE	COURSE TITLE	CATE GORY
-	10V		

¹ Skill Based Course

S.	COURSE	COURSE TITLE	CATE		RW	EEK	CONTACT	CREDITS
NO.	CODE	COOKSE THEE	GORY	L	т	P	PERIODS	
THE	DRY			1	~ 1	-		3
1.	CS3452	Theory of Computation	PCC	3	0	0	3	3
2.	CS3491	Artificial Intelligence and Machine Learning	PCC	3	0	2	5	4
3.	CS3492	Database Management Systems	PCC	3	0	0	3	3
4.	IT3401	Web Essentials	PCC	3	0	2	5	4
5.	CS3451	Introduction to Operating Systems	PCC	3	0	0	3	3
6.	GE3451	Environmental Sciences and Sustainability	BSC	2	0	0	2	2
7,		NCC Credit Course Level 2*	•	3	0	0	3	3*
PRAC	CTICALS			-		_		1 10
8.	CS3461	Operating Systems Laboratory	PCC	0	0	3	3	1.5
9.	CS3481	Database Management Systems Laboratory	PCC	0	0	3	3	1.5
		Systems coocidiony	TOTAL	20	0	10	30	22

* NCC Credit Course level 2 is offered for NCC students only. The grades earned by the students will be recorded in the Mark Sheet, however the same shall not be considered for the computation of CGPA.





PERIODS

TOTAL



		SEMES	TER VII / V	m.	-		TOTAL	
_	COURSE		CATE	PER	NIOD	EK	CONTACT	CREDITS
S.	CODE		GORY	L	T	P	PERIODO	
1.11						-	2	2
HE	ORY	Human Values and Ethics	HSMC	2	0	0	3	3
1	GE3791	Elective - Management*	HSMC	3	0	0	3	3
2			OEC	3	0	0	3	3
2		Open Elective – II** Open Elective – III**	OEC	3	0	0	3	3
-		Open Elective - IV**	OEC	3	0	0		Margare -
	CTICALS	Trables and a	1.1		17537	-	0	2
-1000	A COLORADO	Summer internship	EEC	0	Q	0		16
5.	IT3711	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	TOTAL	14	0	0	14	ter VII will be

'If students undergo internship in Semester VII, then the courses offered during semester VII will ** Open Elective II - IV (Shall be chosen from the list of open electives offered by other Programmes).

*Elective - Management shall be chosen from the Elective Management courses.

SEMESTER VIII /VII*

COURSE TITLE	CATE GORY				CONTACT PERIODS	CREDITS
	ere.	0	6	20	20	10
Project Work/Internship	- Partition	0	0	20	20	10
	COURSE TITLE Project Work/Internship	COURSE TITLE GORY	COURSE TITLE CATE GORY PE L Project Work/Internship EEC 0	COURSE TITLE CATE OF WE GORY L T	COURSE TITLE GORY L T P Project Work/Internship EEC 0 0 20	COURSE TITLE CATE GORY PER WEEK L CONTACT PERIODS Project Work/Internship EEC 0 0 20 20

'If students undergo internship in Semester VII, then the courses offered during s offered during semester VIII.

TOTAL CREDITS: 162

ELECTIVE - MANAGEMENT COURSES

6 1		COURSE TITLE	CATE	PERIODS			CONTACT	CREDITS
S.	COURSE		GORY	L	T	P	PERIODS	
NO.	CODE		HSMC	3	0	0	3	3
1.	GE3751	Principles of Management	HSMC	3	0	0	3	3
and the second second	GE3752	Total Quality Management Economics	And Address of the Ad	3	0	0	3	3
2. 3.	GE3753		1190703	1.	1.28	18-01-0		
80.1		and Financial Accounting Resource	HSMC	3	0	0	3	3
1	GE3754	Herman			10			-
82.1		Management	HSMC	3	0	0	3	3
5.	GE3755	Knowledge Management	HSMC	3	0	0	3	3
6.	GE3792	Industrial Management	and the second s	10000		10.020		





MANDATORY COURSES I

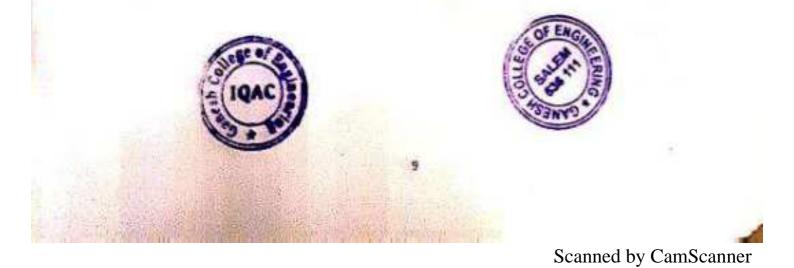
S. NO.	COURSE	COURSE TITLE	CATE	PERIODS PER WEEK			TOTAL	CREDITS
NO.	CODE		GORY	L	T	P	PERIODS	
1.	MX3081	Introduction to Women and Gender Studies	MC	3	0	0	3	0
2.	MX3082	Elements of Literature	MC	3	0	0	3	0
3.	MX3083	Film Appreciation	MC	3	0	0	3	0
4,	MX3084	Disaster Risk Reduction and Management	MC	3	0	0	3	0

*Mandatory Courses are offered as Non-Credit Courses

S.	COURSE	COURSE TITLE	CATE	PERIODS PER WEEK			TOTAL	CREDITS
NO.	CODE		GORT	L	T	P	PERIODS	
1.	MX3085	Well Being with Traditional Practices - Yoga, Ayurveda and Siddha	мс	3	0	0	3	0
2.	MX3086	History of Science and Technology in India	MC	3	0	0	3	0
3.	MX3087	Political and Economic Thought for a Humane Society	MG	3	0	0	3	Ō
4.	MX3088	State Nation Building and Politics in India	MC	3	0	0	3	0
5.	MX3089	Industrial Safety	MC	3	0	0	3	0

MANDATORY COURSES II

*Mandatory Courses are offered as Non-Credit Courses



ANNA UNIVERSITY, CHENNAI NON- AUTONOMOUS AFFILIATED COLLEGES REGULATIONS 2021 CHOICE BASED CREDIT SYSTEM B.TECH. ARTIFICIAL INTELLIGENCE AND DATA SCIENCE CURRICULUM AND SYLLABI FOR SEMESTERS I TO VIII SEMESTER I

S.	COURSE		CATE-		IODS I		TOTAL	CREDITS
NO.	CODE	G	GORY	L	T	P	PERIODS	
÷	IP3151	Induction Programme		-	-			0
HEO	RY	dec s o					1	-
2.	HS3152	Professional English - I	HSMC	3	0	0	3	3
3.	MA3151	Matrices and Calculus	BSC	3	1	0	4	4
4.	PH3151	Engineering Physics	BSC	3	0	0	3	3
5.	CY3151	Engineering Chemistry	BSC	3	0	0	3	3
6.	GE3151	Problem Solving and Python Programming	ESC	3	0	0	• 3	3
7.	GE3152	தமிழர் மரபு /Heritage of Tamils	HSMC	1	0	0	1	1
PRA	CTICALS							
8.	GE3171	Problem Solving and Python Programming Laboratory	ESC	0	0	4	4	2
9.	BS3171	Physics and Chemistry Laboratory	BSC	0	0	4	4	2
12	GE3172	English Laboratory S	EEC	0	0	2	2	1
10.	OES112	Light Coontroly	TOTAL	16	1	10	27	22

* Skill Based Course

SEMESTER II

c	S. COURSE	COURSE TITLE	CATE-		ODS P	PER	TOTAL CONTACT PERIODS	CREDITS
NO.	CODE	COURSE TITLE	GORY	L	T	P		
THEO	RY		United 1	0.1	0	0	2	2
1.	HS3252	Protessional Lugion in	HSMC	2	0	0	4	4
2	MA3251	Statistics and Numerical Methods	BSC	3			3	3
3.	PH3256	Physics for Information Science	BSC	3	0	0	3	
4.	BE3251	Basic Electrical and Electronics	ESC	3	0	0	3	3
	1 State	Engineering	ESC	2	0	4	6	4
5.	GE3251	Engineering Graphics	PCC	3	0	0	3	3
6.	AD3251	Data Structures Design	HSMC	1	0	0	1	1
7.	GE3252	தமிழரும் தொழில்துட்பமும் /Tamils and Technology	TIONIO			-		2
8.	-	NCC Credit Course Level 1	•	2	0	0	2	1.4
	TICALS	A second s	ESC	0	0	4	4	2
9.	GE3271	Engineering Practices Laboratory				1	4	2
SU	Contraction of the second s	Data Structures Design Laboratory	PCC	0	0	4	4	_
10.	AD3271	Communication Laboratory /	EEC	0	0	4	4	2
11.	GE3272	Foreign Language	TOTAL	17	10	FER	34	26

on the for NCC students only. The grades of the

In the Mark Sheet, Borner the C

		SEME	STER III					
S. NO.	COURSE	COURSE TITLE	CATE	PERIODS PER WEEK			TOTAL	CREDITS 4 4 4 4 4 3 1.5 1.5
0726	120000		GORY	L	T	P	PERIODS	
THE	DRY							
1.	MA3354	Discrete Mathematics	BSC	3	1	0	4	4
2.	C\$3351	Digital Principles and Computer Organization	PCC	3	0	2	5	4
3.	AD3391	Database Design and Management	PCC	3	0	0	3	3
4.	AD3351	Design and Analysis of Algorithms	PCC	3	0	2	5	4
5.	AD3301	Data Exploration and Visualization	PCC	3	0	2	5	4
6.	AL3391	Artificial Intelligence	PCC	3	0	0	3	3
PRA	CTICALS					-		
7.	AD3381	Database Design and Management Laboratory	PCC	0	0	3	3	1.5
8.	AD3311	Artificial Intelligence Laboratory	PCC	0	0	3	3	1.5
9.	GE3361	Professional Development ^s	EEC	0	0	2	2	1
			TOTAL	18	1	14	33	26

¹ Skill Based Course

SEMESTER IV

	1	SEMICO	I LIVIT	-				
S. NO.	COURSE	COURSE TITLE	CATE		RIC	EEK	CONTACT	CREDITS 4 4 3 3 4 2 3*
NO.	CODE	279-026-0660 (A) (A) (40-60)	GORT	L	T	P	PERIODS	
THE	DRY				1			
1.	MA3391	Probability and Statistics	BSC	3	1	0	4	4
2.	AL3452	Operating Systems	PCC	3	0	2	5	4
3.	AL3451	Machine Learning	PCC	3	0	0	3	3
4.	AD3491	Fundamentals of Data Science and Analytics	PCC	3	0	0	3	3
5. 6.	CS3591	Computer Networks	PCC	3	0	2	5	4
6.	GE3451	Environmental Sciences and Sustainability	BSC	2	0	0	2	2
7.		NCC Credit Course Level 2"		3	0	0	3	3*
PRAC	CTICALS							
8.	AD3411	Data Science and Analytics Laboratory	PCC	0	0	4	4	2
9.	AD3461	Machine Learning Laboratory	PCC	0	0	4	4	2
			TOTAL	17	1	12	30	24

*NCC Credit Course level 2 is offered for NCC students only. The grades earned by the students will be recorded in the Mark Sheet, however the same shall not be considered for the computation of CGPA.





S. NO	COURSE	COURSE TITLE	CATE	1.	RIO		TOTAL	CREDITS
	CODE		GORY	L	T	P	PERIODS	- The State Street Sector
THE	ORY			and a state of the			a state of the sta	
1.	GE3791	Human Values and Ethics	HSMC	2	0	0	2	2
2.		Elective - Management*	HSMC	3	0	0	3	3
3.		Open Elective - II**	OEC	3	0	0	3	3
4.		Open Elective - III**	OEC	3	Ð	0	3	3
5.		Open Elective - IV**	OEC	3	0	0	3	3
			TOTAL	14	D	0	14	14

SEMESTER VII / VIII*

"If students undergo internship in Semester VII, then the courses offered during semester VII will be offered during semester VIII.

** Open Elective II - IV (Shall be chosen from the list of open electives offered by other Programmes).

* Elective - Management shall be chosen from the Elective Management courses.

SEMESTER VIII /VII*

S. NO	COURSE	COURSE TITLE	CATE	PERIODS PER WEEK			TOTAL	CREDITS
	CODE	Sounde mile	GORY	L	T	P	PERIODS	2,000,2000
PRA	CTICALS							
1.	AD3811	Project Work / Internship	EEC	0	0	20	20	10
			TOTAL	0	0	20	20	10

"If students undergo internship in Semester VII, then the courses offered during semester VII will be offered during semester VII.

TOTAL CREDITS: 163

ELECTIVE - MANAGEMENT COURSES

S.	COURSE	COURSE TITLE	CATE	CATE PER GORY WEE		2	TOTAL	CREDITS
NO.	CODE			L	T	P	PERIODS	
1.	GE3751	Principles of Management	HSMC	3	0	0	3	3
	a second s	Total Quality Management	HSMC	3	0	0	3	3
2.	GE3752		HSMC	3	0	0	3	3
2. 3.	GE3753	Engineering Economics and Financial Accounting						
4.	GE3754	Human Resource Management	HSMC	3	0	0	3	3
		Management	HSMC	3	0	0	3	3
5.	GE3755	Knowledge Management	HSMC	3	0	0	3	3
5. 6.	GE3792	Industrial Management	HOMO	13	1.0	0		





MANDATORY COURSES I'

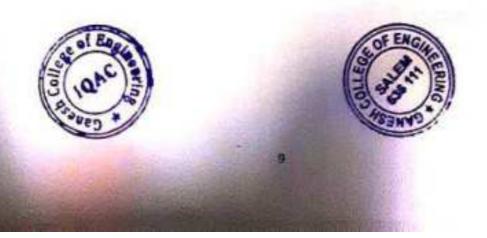
S. NO.	COURSE	COURSE TITLE	CATE	1.1.2.12		DDS	TOTAL	CREDITS
	CODE		GORY	L	T	P	PERIODS	
t.	MX3081	Introduction to Women and Gender Studies	MC	3	0	0	3	0
2.	MX3082	Elements of Literature	MC	3	0	0	3	0
3.	MX3083	Film Appreciation	MC	3	0	0	3	0
4.	MX3084	Disaster Risk Reduction and Management	MC	3	0	0	3	0

*Mandatory Courses are offered as Non-Credit Courses

S.	COURSE	COURSE TITLE	CATE	1.1.1.1	11000	DDS	CONTACT	CREDITS 0 0
NO.	CODE		GORY	L	T	P	PERIODS	
1.	MX3085	Well Being with Traditional Practices - Yoga, Ayurveda and Siddha	МС	3	0	0	3	0
2.	MX3086	History of Science and Technology in India	MC	3	0	0	3	0
3.	MX3087	Political and Economic Thought for a Humane Society	MC	3	0	0	3	0
4.	MX3088	State, Nation Building and Politics in India	MC	3	0	a	3	0
5.	MX3089	Industrial Safety	MC	3	0	0	3	0

MANDATORY COURSES II'

*Mandatory Courses are offered as Non-Credit Courses



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ANNA UNIVERSITY, CHENNAI NON- AUTONOMOUS AFFILIATED COLLEGES REGULATIONS 2021 B. E. ELECTRONICS AND COMMUNICATION ENGINEERING CHOICE BASED CREDIT SYSTEM CURRICULUM AND SYLLABI FOR SEMESTERS I TO VIII SEMESTER I

S.	COURSE	COURSE TITLE	CATE-	PER	ERIODS PER WEEK		CONTACT	CREDITS
NO.	CODE		GORY	L	T	P	PERIODS	
1.	IP3151	Induction Programme						0
THEC	DRY	N. China and Chi			-			
2.	HS3152	Professional English + I	HSMC	3	0	0	3	3
3.	MA3151	Matrices and Calculus	BSC	3	1	0	4	4
4.	PH3151	Engineering Physics	BSC	3	0	0	3	3
5.	CY3151	Engineering Chemistry	BSC	3	0	0	3	3
6.	GE3151	Problem Solving and Python Programming	ESC	з	0	0	3	3
7.	GE3152	தமிழர் மரபு /Heritage of Tamis	HSMC	1	0	0	1	t
PRAC	TICALS							
8,	GE3171	Problem Solving and Python Programming Laboratory	ESC	0	0	4	4	2
9.	BS3171	Physics and Chemistry Laboratory	BSC	0	0	4	4	2
10.	GE3172	English Laboratory \$	EEC	0	0	2	2	1
			TOTAL	16	1	10	27	22

		SEME	STER II					
S.	COURSE	COURSE TITLE	CATE-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NEE)	PER	TOTAL	CREDITS
NU.	CODE		GORY	L	T	P	PERIODS	
THE	ORY	-11			-	12-112-1	Interesting and	
1.	HS3252	Professional English - II	HSMC	2	0	0	2	2
2	MA3251	Statistics and Numerical Methods	BSC	3	1	0	4	4
3.	PH3254	Physics for Electronics Engineering	BSC	з	0	0	3	3
4.	BE3254	Electrical and Instrumentation Engineering	ESC	3	0	0	3	3
5.	GE3251	Engineering Graphics	ESC	2	0	4	6	4
6.	EC3251	Circuit Analysis	PCC	3	1	0	4	.4
7.	GE3252	தமிழரும் தொழில்துட்பமும் /Tamils and Technology	HSMC	1	0	0	1	1
B.		NCC Credit Course Level 1*		2	0	0	2	2*
PRA	CTICALS				-			
9.	GE3271	Engineering Practices Laboratory	ESC	0	0	4	4	2
10.	EC3271	Circuits Analysis Laboratory	PCC	0	0	2	2	1
1.	GE3272	Communication Laboratory / Foreign Language ³	EEC	0	0	4	4	2
-			TOTAL	17	1	14	33	26

NCC Credit Course level 1 is offered for NCC students only. The grades earned by the students will be recorded in the Mark Sheet, however the same shall not be considered for the computation of CGPA.

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¹ Skill Based Cour

S. NO.	COURSE	COURSE TITLE	CATE		RW	DS	CONTACT	CREDITS
			GORY	L	T	P	PERIODS	
THEC	DRY			the state of the s				d
1.	MA3355	Random Processes and Linear Algebra	BSC	3	1	0	4	4
2.	CS3353	C Programming and Data Structures	ESC	3	0	0	3	3
3.	EC3354	Signals and Systems	PCC	3	1	0	4	4
4.	EC3353	Electronic Devices and Circuits	PCC	3	0	0	3	3
5,	EC3351	Control Systems	PCC	3	0	0	3	3
б.	EC3352	Digital Systems Design	PCC	3	0	2	5	4
PRA	CTICALS		13208/15			-		
7.	EC3361	Electronic Devices and Circuits Laboratory	PCC	0	0	3	3	1.5
8,	C\$3362	C Programming and Data Structures Laboratory	PCC	0	0	3	3	1.5
9.	GE3361	Professional Development ⁴	EEC	0	0	2	2	1
			TOTAL	18	2	10	30	25

SEMESTER III

³ Skill Based Course

SEMESTER IV

S.	COURSE	COURSE TITLE	CATE	1.00	ERIC	DDS	TOTAL	CREDITS
NO.	CODE		GORY	L	T	P	PERIODS	1 Contraction of the second se
THE	DRY							
1.	EC3452	Electromagnetic Fields	PCC	3	0	0	3	3
2.	EC3401	Networks and Security	PCC	3	0	2	5	4
3.	EC3451	Linear Integrated Circuits	PCC	3	0	0	3	3
4.	EC3492	Digital Signal Processing	PCC	3	0	2	5	4
5.	EC3491	Communication Systems	PCC	3	0	0	3	3
6.	GE3451	Environmental Sciences and Sustainability	BSC	2	0	0	2	2
7.		NCC Credit Course Level 2*	1	3	0	0	3	3*
PRAC	TICALS							
8.	EC3461	Communication Systems Laboratory	PCC	0	0	3	3	1.5
9.	EC3462	Linear Integrated Circuits Laboratory	PCC	0	0	3	3	1.5
			TOTAL	17	0	10	27	22

*NCC Credit Course level 2 is offered for NCC students only. The grades earned by the students will be recorded in the Mark Sheet, however the same shall not be considered for the computation of CGPA.







S. NO	COURSE	COURSE TITLE	CATE	PERIODS PER WEEK			TOTAL CONTACT	CREDITS
	CODE		GORY	L	т	P	PERIODS	CREDITS 2 3 3 3 3 3 2 2
THE	ORY		-		-			
1.	GE3791	Human Values and Ethics	HSMC	2	0	0	2	2
2.	1.2	Elective - Management*	HSMC	3	0	0	3	3
3.	N	Open Elective - II**	OEC	3	0	0	3	3
4.		Open Elective - III**	OEC	3	0	0	3	3
5.		Open Elective - IV**	OEC	3	0	0	3	3
PRA	CTICALS							
б.	EC3711	Summer internship	EEC	0	0	0	0	2
			TOTAL	14	0	0	14	16

SEMESTER VII / VIII"

"If students undergo internship in Semester VII, then the courses offered during semester VII will be offered during semester VIII.

** Open Elective II - IV (Shall be chosen from the list of open electives offered by other Programmes). *Elective - Management shall be chosen from the Elective Management courses.

SEMESTER VIII /VII*

S. NO	COURSE	COURSE TITLE	CATE GORY	PERIODS PER WEEK		2200	TOTAL	CREDITS
	CODE			L	T	P	PERIODS	
PRA	CTICALS							
1.	EC3811	Project Work / Internship	EEC	0	0	20	20	10
			TOTAL	0	0	20	20	10

"If students undergo internship in Semester VII, then the courses offered during semester VII will be offered during semester VIII.

FLECTIVE - MANAGEMENT COURSES

TOTAL CREDITS : 162

S.	COURSE	COURSE TITLE	CATE		RW	EEK	TOTAL	CREDITS
NO.	CODE	Contraction of the second	GORY	L	T	P	PERIODS	9221717-2017
1.	GE3751	Principles of Management	HSMC	3	0	0	3	3
2.	GE3752	Total Quality Management	HSMC	3	0	0	3	3
3.	GE3753	Engineering Economics and Financial Accounting	HSMC	3	0	0	3	3
4.	GE3754	Human Resource Management	HSMC	3	0	٥	3	3
5.	GE3755	Knowledge Management	HSMC	3	0	0	3	3
6.	GE3792	Industrial Management	HSMC	3	0	0	3	3





MANDATORY COURSES I'

S.	COURSE	COURSE TITLE	CATE			DDS	TOTAL	CREDITS
NO.	CODE		GORY	L	T	P	PERIODS	
1	MX3081	Introduction to Women and Gender Studies	MC	3	0	0	3	0
2.	MX3082	Elements of Literature	MC	3	0	0	3	0
3	MX3083	Film Appreciation	MC	3	0	0	3	0
4.	MX3084	Disaster Risk Reduction and Management	MC	3	0	0	3	0

*Mandatory Courses are offered as Non-Credit Courses

s.	COURSE	COURSE TITLE	CATE	CORY PER WEEK	CONTACT	CREDITS		
NO.	CODE		GORT	L	T	P	PERIODS	0 0 0
1.	MX3085	Well Being with Traditional Practices - Yoga, Ayurveda and Siddha	MC	3	0	0	3	0
2.	MX3086	History of Science and Technology in India	MC	3	0	0	3	0
3.	MX3087	Political and Economic Thought for a Humane Society	MC	3	0	0	3	0
4.	8806XM	State, Nation Building and Politics in India	MC	3	0	0	3	0
5.	MX3089	Industrial Safety	MC	3	0	0	3	0

MANDATORY COURSES II'

"Mandatory Courses are offered as Non-Credit Courses





ANNA UNIVERSITY, CHENNAI 600 025 NON- AUTONOMOUS AFFILIATED COLLEGES REGULATIONS 2021 B. E. BIOMEDICAL ENGINEERING CHOICE BASED CREDIT SYSTEM CURRICULUM AND SYLLABI FOR SEMESTERS I TO VIII

		SEMES	TERI					
s.	COURSE	COURSE TITLE	CATE-	PERIODS PER WEEK		CONTACT	CREDITS	
NO.	CODE	COORSE TITLE	GORY	L	T	P	PERIODS	
1.	IP3151	Induction Programme	1 B		-			0
THEO	RY							
2.	H\$3152	Professional English - I	HSMC	3	0	0	3	3
3.	MA3151	Matrices and Calculus	BSC	3	1	0	4	4
4.	PH3151	Engineering Physics	BSC	3	0	G	3	3
5.	CY3151	Engineering Chemistry	BSC	3	0	0	3	3
6.	GE3151	Problem Solving and Python Programming	ESC	3	0	0	3	3
7.	GE3152	கமிழர் மரபு /Heritage of Tamils	HSMC	1	0	0	1	1
PRA	CTICALS		10					
8.	GE3171	Problem Solving and Python Programming Laboratory	ESC	0	0	4	4	2
9,	BS3171	Physics and Chemistry Laboratory	BSC	0	0	4	4	5
10.	GE3172	English Laboratory ¹	EEC	0	0	2	2	1
			TOTAL	16	1	10	27	22

SEMESTER I

¹ Skill Based Course

SEMESTER II

S.	COURSE	COURSE TITLE	CATE-		NEEK		TOTAL CONTACT PERIODS	CREDITS
NO.	CODE	COOKSE IIICE	GORY	L	T	P		
THE	ORY							
1.	H\$3252	Professional English - II	HSMC	2	0	0	2	2
2.	MA3251	Statistics and Numerical Methods	BSC	3	1	0	4	4
3.	BM3251	Biosciences for Medical Engineering	PCC	3	0	0	3	3
4.	BE3251	Basic Electrical and Electronics Engineering	ESC	3	0	0	3	3
5.	BM3252	Medical Physics	PCC	3	0	0	3	3
6.	GE3251	Engineering Graphics	ESC	2	0	4	6	4
7.	GE3252	தமிழரும் தொழில்துட்பமும் /Tamils and Technology	HSMC	1	0	0	1	1
8.	-	NCC Credit Course Level 1*		2	0	0	2	2*
PRA	CTICALS	- Alantaria - Andreas						
9.	GE3271	Engineering Practices Laboratory	ESC	0	0	4	4	2
10.	8M3271	Biosciences Laboratory	PCC	0	0	4	4	2
11.	GE3272	Communication Laboratory / Foreign Language 1	EEC	0	0	4	4	2
-			TOTAL	17	1	16	34	26

* NCC Credit Course level 1 is offered for NCC students only. The grades earons by the students will be recorded in the Mark Sheet, however the shall not be considered for the consider





s.	COURSE	COURSE TITLE	CATE		RIOD		TOTAL CONTACT PERIODS	CREDITS 4 3 3 4 3 1.5 1.5 1.5 1.5 1
NO.	CODE	COUNCE MILE	GORY	L	т	P		0.000000000000
THEC	DRY							
1.	MA3351	Transforms and Partial Differential Equations	BSC	3	1	0	4	4
2.	BM3353	Fundamentals of Electronic Devices and Circuits	ESC	3	0	0	3	
3.	BM3301	Sensors and Measurements	PCC	3	0	0	3	
4.	BM3352	Electric Circuit Analysis	ESC	3	0	0	3	3
5.	BM3351	Anatomy and Human Physiology	PCC	3	0	2	5	- 10 K.
6.	CS3391	Object oriented programming	ESC	3	0	0	3	3
PRA	CTICALS				_			
7.	BM3361	Fundamentals of Electronic Devices and Circuits Laboratory	ESC	0	0	3	3	1.5
8.	BM3311	Sensors and Measurements Laboratory	PCC	0	0	3	3	1.5
9.	CS3381	Object oriented programming Laboratory	ESC	0	0	3	3	1.5
10.	GE3361	Professional Development ⁵	EEC	0	0	2	2	1
-			TOTAL	18	1	13	32	25.5

⁵ Skill Based Course

SEMESTER IV

S.	COURSE	LUURAE IIILE	CATE		RIO		TOTAL CONTACT PERIODS	CREDITS
NO.	CODE	COUNCE INCL	GORY	L	T	P		
THEC	RY				_			
1.	MA3355	Random Processes and Linear Algebra	BSC	3	1	0	4	4
2.	BM3491	Biomedical Instrumentation	PCC	3	0	0	3	3
3.	BM3402	Analog and Digital Integrated Circuits	PCC	3	0	0	3	3
4.	BM3451	Bio Control Systems	PCC	3	0	0	3	3
5.	BM3401	Signal Processing	PCC	3	0	2	5	4
6.	GE3451	Environmental Sciences and Sustainability	BSC	2	0	0	2	2
7.		NCC Credit Course Level 2*	1	3	0	0	3	3*
PRA	CTICALS					_		
8.	BM3411	Biomedical Instrumentation Laboratory	PCC	0	0	3	3	1.5
9.	BM3412	Analog and Digital Integrated Circuits Laboratory	PCC	0	0	3	3	1.5
-		Citato coor de la	TOTAL	17	1	8	26	22

* NCC Credit Course level 2 is offered for NCC students only. The grades earned by the students will be recorded in the Mark Sheet, however the same shall not be considered for the computation of CGPA.



S. NO	COURSE	COURSE TITLE	CATE	PE	RIO		TOTAL	CREDITS
NO	CODE	COURSE HILE	GORY	L	τ	P	PERIODS	
THE	ORY			-	-	-	2	2
1.	GE3791	Human Values and Ethics	HSMC	2	0	0	2	
2.		Management - Elective*	HSMC	3	0	0	3	3
			OEC	3	0	0	3	3
3.		Open Elective - II**	OEC	3	0	0	3	3
4.		Open Elective - III**	OEC	3	0	0	3	3
5.		Open Elective – IV**	UEC.					
PRA	CTICALS				-	-		
6.	BM3711	Hospital Training	EEC	0	0	0	0	2
etc. 1	DIMOTIT	respires training	TOTAL	14	0	0	14	16

STED VIL/VIII*

"If students undergo internship in Semester VII, then the courses offered during semester VII will be offered during semester VIII.

** Open Elective II - IV (Shall be chosen from the list of open electives offered by other Programmes). * Management - Elective shall be chosen from the Management Elective courses.

SEMESTER VIII /VII*

S. COURSE		SE COURSE TITLE	CATE	PERIODS PER WEEK			TOTAL	CREDITS
NO	CODE	COURSE MEE	GORY	L	T	Ρ	PERIODS	10 10
PRA	CTICALS		1			20	20	10
1.	BM3811	Project Work / Internship	EEC	0	0	20		
	the state of the s	hard the first of the second	TOTAL	0	0	20	20	10

"If students undergo internship in Semester VII, then the courses offered during semester VII will be offered during semester VIII.

TOTAL CREDITS : 163

ELECTIVE - MANAGEMENT COURSES

s.	COURSE	COURSE TITLE	CATE	FERMELS I		TOTAL	CREDITS	
NO		COURSE ITTLE	GORY	L	T	P	PERIODS	
	GE3751	Principles of Management	HSMC	3	0	0	3	3
1.	GE3752	Total Quality Management	HSMC	3	0	0	3	3
2. 3.	GE3753	Engineering Economics and Financial Accounting	HSMC	3	0	0	3	3
4.	GE3754	Human Resource Management	HSMC	3	0	0	3	3
5.	GE3755	Knowledge Management	HSMC	3	0	0	3	3
6.	GE3792	Industrial Management	HSMC	3	0	0	3	3





MANDATORY COURSES I'

S. NO.	COURSE	COURSE TITLE	E CATE PERIODS GORY L T P		EEK	TOTAL CONTACT PERIODS	CREDITS	
1.	MX3081	Introduction to Women and Gender Studies	MG	3	0	0	3	0
2.	MX3082	Elements of Literature	MC	3	0	0	3	0
3	MX3083	Film Appreciation	MC	3	0	0	3	0
4	MX3084	Disaster Risk Reduction and Management	MC	3	0	0	3	0

*Mandatory Courses are offered as Non-Credit Courses

S. NO.	COURSE	COURSE TITLE	CATE		RW	DDS	TOTAL	CREDITS	
	CODE		GORY	LT		P	PERIODS	0	
1. MX3085		Well Being with Traditional Practices - Yoga, Ayurveda and Siddha	MC	3	0	0	3		
2.	MX3086	History of Science and Technology in India	MC	3	0	0	3	0	
3.	MX3087	Political and Economic Thought for a Humane Society	MC	3	0	٥	3	0	
4.	MX3088	State, Nation Building and Politics in India	MC	3	0	0	3	0	
5.	MX3089	Industrial Safety	MC	3	0	0	3	0	

MANDATORY COURSES II'

*Mandatory Courses are offered as Non-Credit Courses





IP3151

INDUCTION PROGRAMME

This is a mandatory 2 week programme to be conducted as soon as the students enter the institution. Normal classes start only after the induction program is over.

The induction programme has been introduced by AICTE with the following objective:

"Engineering colleges were established to train graduates well in the branch/department of admission, have a holistic outlook, and have a desire to work for national needs and beyond. The graduating student must have knowledge and skills in the area of his/her study. However, he/she must also have broad understanding of society and relationships. Character needs to be nurtured as an essential quality by which he/she would understand and fulfill his/her responsibility as an engineer, a citizen and a human being. Besides the above, several meta-skills and underlying values are needed."

"One will have to work closely with the newly joined students in making them feel comfortable, allow them to explore their academic interests and activities, reduce competition and make them work for excellence, promote bonding within them, build relations between teachers and students, give a broader view of life, and build character. "

Hence, the purpose of this programme is to make the students feel comfortable in their new environment, open them up, set a healthy daily routine, create bonding in the batch as well as between faculty and students, develop awareness, sensitivity and understanding of the self, people around them, society at large, and nature.

The following are the activities under the induction program in which the student would be fully engaged throughout the day for the entire duration of the program.

(i) Physical Activity

This would involve a daily routine of physical activity with games and sports, yoga, gardening, etc.

(ii) Creative Arts

Every student would choose one skill related to the arts whether visual arts or performing arts. Examples are painting, sculpture, pottery, music, dance etc. The student would pursue it everyday for the duration of the program. These would allow for creative expression. It would develop a sense of aesthetics and

also enhance creativity which would, hopefully, grow into engineering design later.

(iii) Universal Human Values

This is the anchoring activity of the Induction Programme. It gets the student to explore oneself and allows one to experience the joy of learning, stand up to peer pressure, take decisions with courage, be aware of relationships with colleagues and supporting stay in the hostel and department, be sensitive to others, etc. A module in Universal Human Values provides the base. Methodology of teaching this content, secure a wimportant. It must not be through the base Methodology of teaching this content, secure a wimportant. It must not be through the base dont's, but get students to explore and think by engagementem in a dialogue. It is best tages in the base base and real Me activities rath a conduction small groups of about 20 appendix with courty.

34

mentor each. It would be effective that the faculty mentor assigned is also the faculty advisor for the student for the full duration of the UG programme.

(iv) Literary Activity

Literary activity would encompass reading, writing and possibly, debating, enacting a play etc.

(v) Proficiency Modules

This would address some lacunas that students might have, for example, English, computer familianty etc.

(vi) Lectures by Eminent People

Motivational lectures by eminent people from all walks of life should be arranged to give the students exposure to people who are socially active or in public life.

(vii) Visits to Local Area

A couple of visits to the landmarks of the city, or a hospital or orphanage could be organized. This would familiarize them with the area as well as expose them to the under privileged.

(viii) Familianzation to Dept/Branch & Innovations

They should be told about what getting into a branch or department means what role it plays in society, through its technology. They should also be shown the laboratories, workshops & other facilities.

(ix) Department Specific Activities

About a week can be spent in introducing activities (games, guizzes, social interactions, small experiments, design thinking etc.) that are relevant to the particular branch of Engineering / Technology / Architecture that can serve as a motivation and kindle interest in building things (become a maker) in that particular field. This can be conducted in the form of a workshop. For example, CSE and IT students may be introduced to activities that kindle computational thinking, and get them to build simple games. ECE students may be introduced to building simple circuits as an extension of their knowledge in Science, and so on. Students may be asked to build stuff using their knowledge of science.

Induction Programme is totally an activity based programme and therefore there shall be no tests / assessments during this programme.

References. Guide to Induction program from AICTE





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GE3451 ENVIRONMENTAL SCIENCES AND SUSTAINABILITY LTPC

2 0 0 2

COURSE OBJECTIVES:

- To introduce the basic concepts of environment, ecosystems and biodiversity and emphasize on the biodiversity of India and its conservation.
- To impart knowledge on the causes, effects and control or prevention measures of environmental pollution and natural disasters.
- To facilitate the understanding of global and Indian scenario of renewable and nonrenewable resources, causes of their degradation and measures to preserve them.
- To familiarize the concept of sustainable development goals and appreciate the interdependence of economic and social aspects of sustainability, recognize and analyze climate changes, concept of carbon credit and the challenges of environmental management.
- To inculcate and embrace sustainability practices and develop a broader understanding on green materials, energy cycles and analyze the role of sustainable urbanization.

UNIT I ENVIRONMENT AND BIODIVERSITY

Definition, scope and importance of environment – need for public awareness.Eco-system and Energy flow- ecological succession. Types of biodiversity, genetic, species and ecosystem diversity- values of biodiversity. India as a mega-diversity nation – hot-spots of biodiversity – threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts – endangered and endemic species of India – conservation of biodiversity. In-situ and ex-situ.

UNIT II ENVIRONMENTAL POLLUTION

Causes, Effects and Preventive measures of Water, Soil, Air and Noise Pollutions. Solid, Hazardous and E-Waste management, Case studies on Occupational Health and Safety Management system (OHASMS). Environmental protection, Environmental protection acts.

UNIT III RENEWABLE SOURCES OF ENERGY

Energy management and conservation. New Energy Sources: Need of new sources. Different types new energy sources. Applications of- Hydrogen energy, Ocean energy resources, Tidal energy conversion. Concept, origin and power plants of geothermal energy.

UNIT IV SUSTAINABILITY AND MANAGEMENT

Development, GDP, Sustainability- concept, needs and challenges-economic, social and aspects of sustainability-from unsustainability to sustainability-millennium development goals, and protocols-Sustainable Development Goals-targets, indicators and intervention areas Climate change- Global, Regional and local environmental issues and possible solutions-case studies. Concept of Carbon Credit, Carbon Footprint, Environmental management in industry-A case study.

UNIT V SUSTAINABILITY PRACTICES

Zero waste and R concept. Circular economy. ISO 14000 Series. Material Life cycle assessment. Environmental Impact Assessment. Sustainable habitat: Green building DScent materials. Energy efficiency, Sustainable tenergy. Sustainable energy. Non-conventional Sources: Energy Cyclescarbon cycle. emission and sequentration. Green Engineering Sustainable unperization- Socioeconomical and technology. charge

TOTAL:30 PERIODS

COURSE OUTCOMES:

CO1 To recognize and understand the functions of environment, ecosystems and biodiversity and their conservation.

CO2 To identify the causes, effects of environmental pollution and natural disasters and contribute to the preventive measures in the society.

CO3: To identify and apply the understanding of renewable and non-renewable resources and contribute to the sustainable measures to preserve them for future generations.

CO4: To recognize the different goals of sustainable development and apply them for suitable technological advancement and societal development.

CO5 To demonstrate the knowledge of sustainability practices and identify green materials, energy cycles and the role of sustainable urbanization,

TEXT BOOKS :

- Anubha Kaushik and C. P. Kaushik's "Perspectives in Environmental Studies", 6th Edition, New Age International Publishers ,2018.
- Benny Joseph, 'Environmental Science and Engineering', Tata McGraw-Hill, New Delhi, 2016.
- Gilbert M.Masters, 'Introduction to Environmental Engineering and Science', 2nd edition, Pearson Education, 2004.
- Allen, D. T. and Shonnard, D. R., Sustainability Engineering: Concepts, Design and Case Studies, Prentice Hall.
- Bradley, A.S; Adebayo, A.O., Maria, P. Engineering applications in sustainable design and development, Cengage learning.
- 6. Environment Impact Assessment Guidelines, Notification of Government of India, 2006.
- Mackenthun, K.M., Basic Concepts in Environmental Management, Lewis Publication, London, 1998.

REFERENCES :

- R.K. Trivedi, 'Handbook of Environmental Laws, Rules, Guidelines, Compliances and Standards', Vol. I and II, Enviro Media. 38 . edition 2010.
- Cunningham, W.P. Cooper, T.H. Gorhani, 'Environmental Encyclopedia', Jaico Publ., House, Mumbai, 2001.
- Dharmendra S. Sengar, 'Environmental law', Prentice hall of India PVT. LTD, New Delhi, 2007.
- Rajagopalan, R, 'Environmental Studies-From Crisis to Cure', Oxford University Press, Third Edition, 2015.
- 5. Erach Bharucha "Textbook of Environmental Studies for Undergraduate Courses" Orient Blackswan Pvt. Ltd. 2013.

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CO's-PO's & PSO's MAPPING



AERO	ENGINES
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E1	Introduction and	types of	Aero Engine
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Aircraft Controls E 2

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	THICS	LTPC
GE3791	HUMAN VALUES AND ETHICS	2002

COURSE DESCRIPTION

This course aims to provide a broad understanding about the modern values and ethical principles that have evolved and are enshrined in the Constitution of India with regard to the democratic, secular and scientific aspects. The course is designed for undergraduate students so that they could study, understand and apply these values in their day to day life.

COURSE OBJECTIVES:

- To create awareness about values and ethics enshrined in the Constitution of India
- To sensitize students about the democratic values to be upheld in the modern society.
- > To inculcate respect for all people irrespective of their religion or other affiliations.
- To instill the scientific temper in the students' minds and develop their critical thinking.
- > To promote sense of responsibility and understanding of the duties of citizen.

DEMOCRATIC VALUES UNIT I

Understanding Democratic values Equality, Liberty, Fraternity, Freedom, Justice, Pluralism, Tolerance, Respect for All, Freedom of Expression, Citizen Participation in Governance - World Democracies: French Revolution, American Independence, Indian Freedom Movement. Reading Text: Excerpts from John Stuart Mills' On Liberty

SECULAR VALUES UNIT II

Understanding Secular values - Interpretation of secularism in Indian context - Disassociation of state from religion - Acceptance of all faiths - Encouraging non-discriminatory practices.

Reading Text: Excerpt from Secularism in India: Concept and Practice by Ram Puniyani

SCIENTIFIC VALUES UNIT III

Scientific thinking and method; Inductive and Deductive thinking, Proposing and testing Hypothesis, Validating facts using evidence based approach - Skepticism and Empiricism - Rationalism and Scientific Temper.

Reading Text: Excerpt from The Scientific Temper by Antony Michaelis R

SOCIAL ETHICS UNIT IV

Application of ethical reasoning to social problems - Gender bias and issues - Gender violence -Social discrimination - Constitutional protection and policies - Inclusive practices.

ons for the 21" Century by Yuval Noah Harari Reading Text: Excerpt fry





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SCIENTIFIC ETHICS

Transparency and Fairness in scientific pursuits - Scientific inventions for the betterment of society -Unfair application of scientific inventions - Role and Responsibility of Scientist in the modern society.

Reading Text: Excerpt from American Prometheus: The Triumph and Tragedy of J.Robert Oppenheimer by Kai Bird and Martin J. Sherwin. TOTAL: 30 PERIODS

REFERENCES:

- 1. The Nonreligious: Understanding Secular People and Societies, Luke W. Galen Oxford University Press, 2016.
- 2. Secularism: A Dictionary of Atheism, Bullivant, Stephen; Lee, Lois, Oxford University Press, 2016.
- The Oxford Handbook of Secularism, John R. Shook, Oxford University Press, 2017.
- 4. The Civic Culture: Political Attitudes and Democracy in Five Nations by Gabriel A. Almond and
- Sidney Verba, Princeton University Press, 5. Research Methodology for Natural Sciences by Soumitro Banerjee, IISc Press, January 2022

COURSE OUTCOMES

Students will be able to

- CO1 : Identify the importance of democratic, secular and scientific values in harmonious functioning of social life
- CO2 : Practice democratic and scientific values in both their personal and professional life.
- CO3 : Find rational solutions to social problems.
- CO4 : Behave in an ethical manner in society
- CO5 : Practice critical thinking and the pursuit of truth.

LTPC SUMMER INTERNSHIP 0 0 0 2

COURSE OBJECTIVES:

EC3711

To enable the students to

- Get connected with industry/ laboratory/research institute
- · Get practical knowledge on production process in the industry and develop skills to solve related problems
- Develop skills to carry out research in the research institutes/laboratories

The students individually undergo training in reputed firms/ research institutes / laboratories for the specified duration. After the completion of training, a detailed report should be submitted within ten days from the commencement of next semester. The students will be evaluated as per the Regulations.

No. of Weeks: 04

COURSE OUTCOMES:

On completion of the course, the student will know about

- CO1 System-level design processes, ventication and validation techniques, manufacturing and production processes in the firm or research facilities in the laboratory/research institute
- CO2 Analysis of 10 contract problems and their solutions
- specifications, design method cess parameters. CO3 Documents testing page

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MANDATORY COURSES I

MX3081 INTRODUCTION TO WOMEN AND GENDER STUDIES

LTPC 3 000

COURSE OUTLINE

UNIT I CONCEPTS

Sex vs. Gender, masculinity, femininity, socialization, patriarchy, public/ private, essentialism, binaryism, power, hegemony, hierarchy, stereotype, gender roles, gender relation, deconstruction, resistance, sexual division of labour.

UNIT II FEMINIST THEORY

Liberal, Marxist, Socialist, Radical, Psychoanalytic, postmodernist, ecofeminist.

UNIT III WOMEN'S MOVEMENTS: GLOBAL, NATIONAL AND LOCAL

Rise of Feminism in Europe and America. Women's Movement in India.

UNIT IV GENDER AND LANGUAGE

Linguistic Forms and Gender. Gender and narratives.

UNIT V GENDER AND REPRESENTATION

Advertising and popular visual media.

Gender and Representation in Alternative Media. Gender and social media.

TOTAL : 45 PERIODS

MX3082 ELEMENTS OF LITERATURE

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OBJECTIVE:

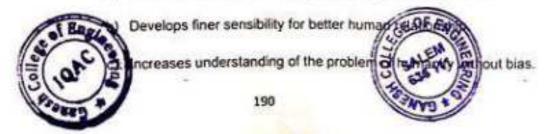
 To make the students aware about the finer sensibilities of human existence through an art form. The students will learn to appreciate different forms of literature as suitable modes of expressing human experience.

1. COURSE CONTENTS

Introduction to Elements of Literature

1. Relevance of literature

a) Enhances Reading, thinking, discussing and writing skills.



Theme - C: Film Theories and Criticism/Appreciation

C-1: Realist theory; Auteurists

C-2: Psychoanalytic, Ideological, Feminists

C-3. How to read films?

C-4; Film Criticism / Appreciation

Theme - D: Development of Films

D-1: Representative Soviet films

D-2: Representative Japanese films

D-3: Representative Italian films

D-4: Representative Hollywood film and the studio system

Theme - E: Indian Films

E-1: The early era E-2: The important films made by the directors E-3: The regional films

E-4: The documentaries in India

READING:

A Reader containing important articles on films will be prepared and given to the students. The students must read them and present in the class and have discussion on these.

MX3084 DISASTER RISK REDUCTION AND MANAGEMENT LTPC

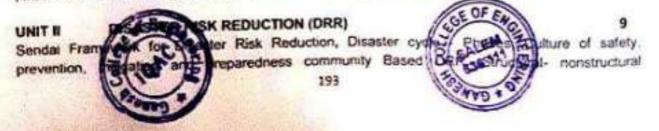
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COURSE OBJECTIVE

- To impart knowledge on concepts related to disaster, disaster risk reduction, disaster management
- To acquaint with the skills for planning and organizing disaster response

UNIT I HAZRADS, VULNERABILITY AND DISASTER RISKS

Definition Disaster, Hazard, Vulnerability, Resilience, Risks – Types of Disasters: Natural, Human induced, Climate change induced –Earthquake, Landslide, Flood, Drought, Fire etc – Technological disasters- Structural collapse, Industrial accidents oil spills -Causes, Impacts including social, Economic, political, environmental, health, psychosocial, etc.- Disaster vulnerability profile of India and Tamil Nadu - Global trends in disasters, urban disasters, pandemics, Complex emergencies, - - , Inter relations between Disasters and Sustainable development Goals



measures, Roles and responsibilities of- community, Panchayati Raj Institutions / Urban Local Bodies (PRIs/ULBs), States, Centre, and other stakeholders- Early Warning System – Advisories from Appropriate Agencies,- Relevance of indigenous Knowledge, appropriate technology and Local resources.

UNIT III DISASTER MANAGEMENT

Components of Disaster Management – Preparedness of rescue and relief, mitigation, rehabilitation and reconstruction- Disaster Risk Management and post disaster management – Compensation and Insurance- Disaster Management Act (2005) and Policy - Other related policies, plans, programmers and legislation - Institutional Processes and Framework at State and Central Level-(NDMA –SDMA-DDMA-NRDF- Civic Volunteers)

UNIT IV TOOLS AND TECHNOLOGY FOR DISASTER MANAGEMENT

Early warning systems -Components of Disaster Relief: Water, Food, Sanitation, Shelter, Health, Waste Management, Institutional arrangements (Mitigation, Response and Preparedness, – Role of GIS and Information Technology Components in Preparedness, Risk Assessment, Response and Recovery Phases of Disaster – Disaster Damage Assessment, - Elements of Climate Resilient Development –Standard operation Procedure for disaster response – Financial planning for disaster Management

UNIT V DISASTER MANAGEMENT: CASE STUDIES

Discussion on selected case studies to analyse the potential impacts and actions in the contest of disasters-Landslide Hazard Zonation: Earthquake Vulnerability Assessment of Buildings and Infrastructure: Case Studies, Drought Assessment: Case Studies, Coastal Flooding: Storm Surge Assessment, Floods: Fluvial and Pluvial Flooding: Case Studies; Forest Fire: Case Studies, Man Made disasters: Case Studies, Space Based Inputs for Disaster Mitigation and Management and field works related to disaster management.- Field work-Mock drill -

TOTAL : 45 PERIODS

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TEXT BOOKS:

1 Taimpo (2016), Disaster Management and Preparedness, CRC Publications

2 Singh R (2017), Disaster Management Guidelines for earthquakes, Landslides, Avalanches and Isunami, Horizon Press Publications

3 Singhal J.P. "Disaster Management", Laxmi Publications, 2010. ISBN-10: 9380386427 ISBN-13: 978-9380386423

4 Tushar Bhattacharya, "Disaster Science and Management", McGraw Hill India Education Pvt. Ltd., 2012. ISBN-10: 1259007367, ISBN-13: 978-1259007361]

REFERENCES

1. Govt. of India: Disaster Management Act, Government of India, New Delhi, 2005.

2. Government of India, National Disaster Management Policy, 2009.

3. Shaw R (2016), Community based Disaster risk reduction, Oxford University Press

COURSE OUTCOME:

CO1: To impart knowledge on the concepts of Disaster, Vulnerability and Disaster Risk reduction (DRR)

CO2: To enhance understanding on Hazards, Vulnerability and Disaster Risk Assessment prevention

CO3: To dealer esponse skills by adopting relevant tools address CO4: Entrance a green reside institutional processes for Disaster response CO5: Develop rodimentary ability to respond to their surroundings with pos

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ACADEMIC YEAR- 2023-2024 (ODD SEM)

CERTIFICATE COURSE

SP10311 - STAAD PRO

SYLLABUS

UNIT-1

Introduction to STRUCTURAL ENGINEERING - Introduction to STAAD.Pro.V8i - Getting familiar with STAAD window - Model generation using STAAD editor

UNIT-2

Introduction to Snap Node/Beam Editor - Model generation using Node/Beam Editor -Introduction to Translational Repeat -Model generation using Translational Repeat

UNIT-3

Assigning Properties - Assigning Supports - Assigning Loads - Structure Analysis

UNIT-4

Simply Supported Beam - Analysis of Framed Structure - Applying Floor Loads

T. W. PROGRAM COORDINATOR



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ACADEMIC YEAR- 2023-2024 (EVEN SEM)

CERTIFICATE COURSE

TK10312 - TEKLA

SYLLABUS

UNIT 1

Introduction To BIM - Getting Started Tekla Structures - Overview Of Structures Modelling - Create New Models - Create Gridlines And Creating Views - Modify And Delete Grids - Create Radial Grids - Create Model Views - Save View & Modify Views - Change The Color Settings

UNIT 2

Create Reinforcements, Modify, Create Planes And Points - Predefined Parametric Profiles - Modelling Concrete Structural Members - Editing Structural Members And Connections

UNIT 3

Drawing And Reports - Report Templates, Reports For Rbars - Create Rebar Drawing Layout - Create GA Drawing - Single Part Drawing Import And Export Models(3d Drawing/Dxf.3d Dgn, Etc.,)

UNIT 4

Analyse And Design - Export Rebar Detailing - Generate Structural Drawings -Foundation Types - Load Application - Foundation Design - Structural Designer Introduction -Transfer Model To Tsd - Important Cad Layout - Loading And Design Codes.

T.M PROGRAM COORDINATOR





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SYLLABUS

SYLLABUS OF THE CERTIFICATE COURSE

MODULE 1:

Preparatory Sessions- Python & Linux

Python Basics, OOPS, Numpy, Pandas, Matplotlib, Seaborn, Linux installation, Linux Commands for File Handling and Data Extraction, etc.

MODULE 2:

Git

Intoduction toGit VersionControl/Revision Control system. The types of VCS - 2. Getting Started with Git and Its Architecture.

MODULE 3

Python with Data Science

Building a solid foundation to explore the fields of web development, game development, data science & artificial intelligence. Become Industry 4.0 ready with this

comprehensive Python course.

MODULE 4

Advanced Statistics

Statistical Methods: Definition and scope of Statistics, concepts of statistical population and sample. Data: quantitative and qualitative, attributes, variables, scales of measurement nominal,ordinal, interval and ratio. Presentation: tabular and graphical, including histogram and ogives, consistency and independence of data with special reference to attributes.

MODULE 5

Machine Learning & Prediction Algorithm

BASICS Learning Problems Perspectives and Issues Concept Learning Version Spaces and Candidate eEliminations – Inductive bias – Decision Tree learning – Representation – Algorithm –Heuristic Space Search

MODULE 6:

Data Science at Scale with PySpark

Data Science at Scale with PySpark. 5.1 Introduction to Big Data and Apache Spark. 5.2 Apache Spark framework and RDDs. 5.3 PySpark SQL and Data Science.

Program Coordinator







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SYLLABUS

SYLLABUS OF THE CERTIFICATE COURSE

MODULE 1:

Basics of Networking and Web Architecture

Basic network concepts, Internet, channel, Bandwidth, Data Transfer Rate, Protocols: HTTP, FTP, TCP/IP, VoIP, Types of network: PAN, LAN, MAN, WAN, Web Architecture: Types of architecture- Client Server Model, Three Tier Model, Service Oriented Architectures. MODULE 2:

WEBSITE DEVELOPMENT USING HTML AND CSS

Concept of website, its need and purpose, Languages used for website development, HTML: basic tags, formatting tags, Adding images, Lists, Internal and External Linking Frames, Forms, Basics of Cascading Style sheets, Overriding, Comments, color, background, Font, images

MODULE 3

MULTIMEDIA DESIGN- GIMP

Gimp as a graphics tool Gimp interface, color modes, tools, transform, color tools, foreground, background Creating and editing images Filter tools like Blur, Layers : creating , rearranging and masking layers.

MODULE 4

INTRODUCTION TO DYNAMIC WEBSITES USING JAVASCRIPT

Limitations of static websites, Dynamic websites Features of JavaScript, extension of JavaScript Syntax of JavaScript, data types, operators, variables, Document object Creating interactive web pages using JavaScript Selection, terative statement: for, for/in, while, do while break and continueMODULE 5

Server-Side Development

Designing and implementing the server logic, database management, user authentication, and business logic. Common programming languages for server-side development include Python, Ruby, Java, PHP, and Node is

MODULE 6:

Frameworks and Libraries

Developers use frameworks and libraries to streamline the development process, ensure best practices. These tools provide pre-built components, structures, and patterns for routing, authentication, and data handling tasks.

SALEN Program Coordinato 636 11



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ACADEMIC YEAR 2023-2024 (ODD SEM)

CERTIFICATE COURSE

EVT10509- ELECTRIC VEHICLE TECHNOLOGY

SYLLABUS

UNIT I: Electric Vehicle: Introduction

History of Electric Vehicles - Automobile power Train-Architecture of Electric Vehicles -Types of Electric Vehicles- Break down of key components in EV-Vehicle Control Unit - Controllers used in EV

UNIT II: Power Electronics Converters and Electrical Motors for EV

Power Semiconductor devices- Rectifiers- DC -DC converters-Inverters -Bidirectional Chargers. Induction Motors -Permanent Magnet Brushless DC motor - Switched reluctance motor - Permanent magnet synchronous motor and their controllers -Regenerative Braking-Integration with Vehicle Systems

UNIT III: Battery Management Systems (BMS) for EV

Batteries –Types of Batteries- Battery packs- Energy Density and Range- Battery Degradation and Lifetime-Functions of a BMS-State of Charge (SoC) –State of Health-Temperature Management-Cell Balancing- Charging Control-Sensors-Battery Management Systems

UNIT IV: Electric Vehicle Charging

ON Board chargers - Off board chargers- Level 1 Charging -Level 2 Charging -DC fast Charging-Charging Connectors- Range and Efficiency

Program Coordinator





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PRINCIPAL Ganesh College of Engineering. Attur Main Road, Mettupatti, SALEM-836 111



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ACADEMIC YEAR 2023-2024 (EVEN SEM)

CERTIFICATE COURSE

SPDI10508- SOLAR PHOTOVOLTAIC SYSTEM DESINING AND INSTALLATION

SYLLABUS

UNIT I: Solar Photovoltaic

Solar Cell and its function, Solar Technologies, Solar Cell Parameters, Efficiency of Solar Cell, Solar PV Module, Rating of Solar PV Module, PV Module Parameters, Efficiency of PV Module, Measuring Module Parameters, Connection of PV Module in Series and Parallel, Estimation and Measurement of PV Module Power, Selection of PV Module.

UNIT II: Batteries

Battery function, Types of Batteries, Battery parameters, Selection of Battery, Series Parallel combination of Batteries, Batteries for Photo voltaic System, Application of Batteries in Solar PV system, Battery Maintenance and Measurements, Battery Fault Detection and Test, Battery Installation for PV system.

UNIT III: Electrical Wiring

Types of Wire, Wire Sizing, Junction Box, DC cabling, AC cabling, Array Combiner Box, AC Distribution Box, Energy Metering, Electrical Grounding, Earth Resistance and Insulation Resistance Measurements.

UNIT IV: Solar PV System Design and Installation

Solar Radiation Energy Measurements, Estimating Energy requirement, Types of Solar PV System, Design methodology for SPV system, Design and Development of Solar Street Light and Solar Lantern, Installation and Trouble shooting of Standalone Solar PV System, Safety in installation of Solar PV System, Maintenance of Solar PV System.

Program Coordinator





HOD

PRINCIPAL Sanesh College of Engineering Attur Main Road, Mettupatti, SALEM-636 111



Syllabus

MODULE-I

Definition & Characteristics of IOT, Physical Design of IOT, Basic Components of IoT, Thing Sensing & Actuators, Vision, Physical Parameters. IOT Protocols. Application Areas of IoT: Home Automation, Smart Cities, Medical, Logistics, Environment, Analytics, Smart Grids.

MODULE-II

IOT Communication Models, APIs, IoT Architecture: Basic Architecture: 3 layer and 5-layer Architecture, ITU- IoT Reference Model, Machine to Machine Communication, IoT Gateways, Wireless Sensor Networks. Technologies: Bluetooth Low Energy (BLE), ZigBee: Architecture, Comparison with other wireless standards. LoraWAN.

MODULE-III

Electronic Product Code (EPC), Near Field Comm. (NFC), 6LoWPAN, End to End Reliability: MQTT, SCADA. Hardware and Software Platforms: Hardware: Raspberry PL ESP8266 Wifi Module, Arduino. Implementation of Basic Sensors (temperature, humidity, proximity, gas, air quality, Ultrasonic sensors)





Syllabus

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MODULE-I

Transducers and sensors- Accuracy and precisions, types of errors, statistical analysis, probability of errors, limiting errors, sensitivity, linearity, hysteresis, resolution, reproducibility, transfer function. Analog Signal Conditioning: Signal conditioning, Loading effects, Bridges for measurement techniques. Attenuators and Amplifiers, Passive filters, Op-amp based signal conditioning circuits, Inverting and Non-Inverting Amplifiers, Linearization, Differential amplifiers and Instrumentation amplifiers.

MODULE-II

Digital Signal Conditioning: Digital measuring techniques, Sample and Hold Circuits, Comparator, Buffers, D/A Conversion and A/D Conversion, Single channel and multichannel Data Acquisition System (DAS). Temperature Sensors: Resistance Vs Temperature characteristics for different materials, Thermistors, Thermocouples - thermoelectric effects for thermocouple tables, RTD, Other Thermal Sensors.

MODULE-III

Pressure, force, displacement and weight measurement: Capacitive and inductive transducers, Displacement Sensor (LVDT), Strain Sensors - strain gauges, its principle, applications, types of strain gauges. Load cells, Piezo-electric sensors, Motion sensors.

MODULE-IV

Flow measurement: Basic principle of flow meter, Differential pressure flow meters, Variable area flow meter, Volumetric flow meter, Hotwire anemometer, Magnetic and ultrasonic flow meter, Rota meter, Hall effect transducer working and measurement techniques.

MODULE-5

RF sensing: Basic principle of EM fields, Antenna, RFID, Near Field and Far Field Sensing, Radar and Navigation, EMI & EMC sensing,







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ACADEMIC YEAR - 2023-2024 (EVEN SEM)

VALUE ADDED COURSE

"TOA11402 - TRAINING ON ANSYS"

SYLLABUS

Chapter 1: before you start using Ansys

- a. Introduction to the Finite Element Method
- b. What is the Finite Element Method?
- c. General Steps of the Finite Element Method
- d. Explanation of 1D, 2D and 3D Elements with examples of ANSYS Elements
- e. Need of FEM
- f. Types of analysis that can be done using ANSYS
- g. Advantages of the Finite Element Method
- h. Limitations of FEA.
- i. About ANSYS Inc.
- j. ANSYS Family of products with their capabilities
- k. Types of analysis that can be done with ANSYS.
- 1. Introduction to the Ansys GUI
- m. Operation Modes of Ansys

Chapter 2: Selection Logic

- a. Pan-Zoom-Rotate
- b. Picking
- c. Coordinate Systems

Chapter 3: Solid Modeling

- a. An Overview of Solid Modeling Operations
- b. Working with Boolean operations
- c. Working Plane
- d. Importing of 3D models

Chapter 4: Meshing

- a. Free meshing or Mapped meshing
- b. Setting Element Attributes
- c. Selecting Element Type
- d. Shape Function
- e. Defining Element Types
- Determine Section Properties

Syngning Binnent Attributes before meshing



- h. Mesh Controls
- 1 The ANSYS Mesh Tool
- 1 Smart sizing
- k. Meshing
- 1. Free Meshing

Chapter 5: Material Properties

- a. Material Library
- b. Specifying properties

Chapter 6: Boundary Conditions

- a Types of Loads
- b. Applying loads

Chapter 7: Solvers

- a Types of Solvers
- b. Solver Setup
- e. Load Step Options
- d. Solving Multiple Load Steps

Chapter 8: Post-processing

- a. Contour Plot Viewing
- b. Time History Postprocessor (POST26)
- c. Report Generator

Chapter 9: Introduction to Non-Linear Analysis

Chapter 10: Sample Structural Analysis

a. Workshop

Chapter 11: Sample Thermal Analysis

n. Workshop

Chapter 12: Sample Modal Analysis

a. Workshop

Chapter 13: Tips & Tricks

- a. Using the Toolbar & Creating Abbreviations
- b. Introduction to APDL
- c. Using Parameters
- d. Using the Start File
- e. Using the Session Editor
- f. Using Input Files

Chapter 14: ANSYS Workbench

- a. Introduction to ANSYS Workbench
- b. Graphical User Interface
- c. Static Structural Analysis
- d. Modal Analysis
- e. Thermal Analysis
- t. Contact Recognition

Just

Program Coordinator





(Approved by AICTE, New Delhi & Afiliated to Anna University, Chennai) Attur Main Road, Mettupatti, Salom - 636 111, Tamilnadu, India Phone: 0427 - 2211212, +91 5865440414 E-Mail: principal@ganeshenggcollege.org www.ganeshenggcollege.org

ACADEMIC YEAR- 2023-2024 (ODD) VALUE ADDED COURSE PRODUCT DESIGN USING CREO SYLLABUS

Section -1

Introduction to Creo Parametric, parametric Nature, File Menu options Managing Files Menu Manager Model Tree, Understanding the functions of the Mouse Buttons, Ribbon Toolbars Navigator, Creo Parametric Browser Appearance Gallery Rendering in Creo Parametric, Colour Scheme Used in this Book. Sketch Mode Environment, Drawing a line, Centerline, Geometry centerline, Rectangle Ellipse, Dimensioning a Sketch Using the normal Tool Linear Dimensioning of a line.

Section -2

Creating Sketches : - Creating Fillets, Circular Fillets, Elliptical, Fillets, Creating Base Features Invoking the part Mode the Default Datum planes Creating a protrusion, Extruding a Sketch, Revolving a Sketch, Understanding the Orientation of Datum planes, parent --child Relationship,, Implicit Relationship,, Explicit Relationship,Nesting of Sketches.

Section -3

Default Datum Planes Need for Datums in Modeling Selection Method in creo Parametric Datum Options, Datum Planes, Creating Datum Planes, Datum Planes created On -The -Fly, Datum Axes, Datum points Creating Cuts, Removing Material by using the Extrude Tool, Options Aiding Construction of parts creating Holes, Creating Rounds, Creating Basic Rounds.

Section -4

Creating Feature Patterns, Copying Features, Refs Mirror, Section of a solid Models, Works Region Method ,Sweep Features, Thin sweep Protrusion, Sweep Cut, Blend General Blend Vertex., shell Feature, Constant Thickness Shell, Thickness shell, Datum curves, Curve Button, Project option, wrap Option.

Section -5

Assembly Modeling, Top -Down Assemblies, Components in the Assembly Model, Assembling Components, 3D Dragger, Applying constraints Status Area Placement Tab, Packaging components, Creating Simplified Representations redefining the components of an Assembly reordering components Suppressing /Resuming components replacing.

Section -6

Surface modeling, Creo Parametric, Extruded Surface creating a Revolved surface creating a Sweep, t blend surface creating a Helical Sweep Surface, Blending the boundaries, Style Environment of creo parametric, style Dashboard. Introduction to sheet metal, Mode, Planer wall, Revolve Wall, offset wall, Flat wall, Twist wall, Flange wall, bend back, sheet metal part, cuts in the sheet metal components.

ram Coordinator



Messened to An W. New Deficie Additional Research, Committee Attac Main Road, Methodatti, Salem - 636 111, Tamilhadu, India Phase 0427, 2221212, -46, 0865140134 E Mail ammund dynastrongeologi, July areas, genesburggoutege arts

Syllabus

MODULE-I

41-12-12-12-12

Generalized Instrumentation System-General properties of input transducer - Static Characteristics- Accuracy, Precision - Resolution-Reproducibility, Sensitivity, Drift, Hysteresis - Linearity, Input Impedance and Output Impedance. Dynamic Characteristics: First Order and Second Order Characteristics, Time Delay, Transfer Function – First and Second Order Systems.

MODULE-II

Temperature transducers- thermo resistive transducers, thermoelectric, Displacement transducers - potentiometric, resistive strain gauges, inductive displacement, and capacitive displacement transducer. Pressure transducer-indirect method - measurement of blood pressure using sphygmomanometer - piezoelectric type - catheter tip transducers - measurement of intracranial pressure - catheter tipimplantable type - Optical Sensors.

MODULE-III

Electrodes- Electrolyte Interface - Half Cell Potential - Polarization, Polarizable and Non Polarizable, Electrodes - Calomel Electrode - Electrode Circuit Model-Electrode Skin Interface and Motion Artifact - Body Surface Electrodes- Ion exchange membrane electrodes, oxygen electrodes, CO2 electrodes enzyme electrode - ISFET for glucose - urea.







(Approximating ACA), Seen During & Attick and the Approximation of p. Chemistral Attur Main Road, Mettupotti, Salem - 636 111, Tamiinadu, India Phone: 0427 2211212, +91 9905440414 E Mail. geinepung westenggesflege.org www.ganuthinggoings.org

Syllabus

MODULE-I

ALL TYPE Fred

Bio signals characteristics - Origin of bio potential and its propagation. Frequency and amplitude ranges. Electrode configurations: Electrode-electrolyte interface, electrodeskin interface impedance, polarization effects of electrode - non-polarizable electrodes. Unipolar and bipolar configuration-classification of electrodes.

MODULE-II

Bio signals characteristics - ECG-frequency and amplitude ranges - Einthoven's triangle, standard 12 lead system. EEG - EEG - 10-20 electrode system, unipolar, bipolar and average mode. EMG- unipolar and bipolar mode. EMG - Electrode configuration unipolar and bipolar mode.

MODULE-III

Need for bio-amplifier - Differential bio-amplifier - Single ended amplifier - Band pass filtering, isolation amplifiers - transformer and optical isolation - isolated DC amplifier and AC carrier amplifier-Chopper amplifier- Power line interference.









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SYLLABUS

SYLLABUS OF THE CERTIFICATE COURSE

MODULE 1:

Overview of Blockchain

Introduction to Blockchain and its Origin, Blockchain is crucial and its objectives, Blockchain terminologies, databases and blockchain, Distributed Ledger, Blockchain ecosystem and structure, Working of blockchain, Types of blockchain.

MODULE 2:

Create & deploy your private Blockchain on MultiChain

Cryptography and Crypto-currency, Anonymity and Pseudonymity in cryptocurrencies

MODULE 3

Delving into Blockchain

The role and property of crypto, Terminology: Alice, Bob, Eve, encrypt, decrypt, cryptography, cryptanalysis, ROTx, substitution cipher, Symmetric encryption: DES, AES

MODULE 4

Hyperledger

Access policy, access control matrix, Oracle authentication: password, Kerberos, Oracle authorization: privileges, roles

MODULE 5

Prospects of Blockchain

Necessity of VPD, How to implement VPD, Problems of VPD, Launch SQL injection attacks, Countermeasures

MODULE 6:

Ethereum

Challenges in outsourced database, Merke Hash Tree, Data confidentiality: relational encryption.

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SYLLABUS

SYLLABUS OF THE CERTIFICATE COURSE

MODULE 1:

IOT Introduction

IOT enabling technologies.IOT Architecture, Major component of IOT, IOT communication and networking protocols, Role of wired and wireless communication.

MODULE 2:

IOT Security

Attack, Defense, and Network Robustness of Internet of Things, Malware Propagation and Control in Internet of Things, Privacy Preservation Data Dissemination

MODULE 3

IOT Data Acquisition & Platforms

MicroControllers(Arduino uno/mega2560,Rasberry-Pi,ARM), Real-time systems and embedded software, OS and Drivers (End Device Program)

MODULE 4

IOT Data Communication

IEEE 802.15.4, IEEE 802.15.4e, 802.11ah, Relay Access Point (AP), Grouping of station, Target Wake Time (TWT)

MODULE 5

IOT Data Storage & Retrieval

Overview and Role of Storage in Cloud / Server /Inhouse Storage. Databases Connectivity with IOT and uses .

MODULE 6:

IOT Data Analytics & Visualization

Analysis Of data using python Module, Visualization and interpretation of Data, Data Cleaning in IOT



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SYLLABUS

SYLLABUS OF THE CERTIFICATE COURSE

MODULE 1:

Social Media Features:

Social media platforms use machine learning algorithms and approaches to create some attractive and excellent features. For instance, Facebook notices and records.

MODULE 2:

Product Recommendations:

Product recommendation is one of the most popular and known applications of machine learning. Product recommendation is one of the stark features of almost every e-commerce website today, which is an advanced application of machine learning.

MODULE 3:

Image Recognition:

Image recognition, which is an approach for cataloging and detecting a feature or an object in the digital image, is one of the most significant and notable machine learning and AI techniques.

MODULE 4:

Sentiment Analysis:

Sentiment analysis is one of the most necessary applications of machine learning. AI is a realtime machine learning application that determines the emotion or opinion of the speaker or the write.

MODULE 5:

Automating Employee Access Control:

Organizations are actively implementing machine learning algorithms to determine the level of access employees would need in various areas, depending on their job profiles.

MODULE 6:

Regulating Healthcare Efficiency and Medical Services:

Significant healthcare sectors are actively looking at using machine learning algorithms to manage better. They predict the waiting times of patients in the emergency waiting rooms across various departments of hospitals.







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SYLLABUS

SYLLABUS OF THE CERTIFICATE COURSE

MODULE 1:

Foundation of Cyber Security and Engineering: This module covers four broad topic areas: programming, operating systems, encryption and networks. These topics will be taught in the context of Cyber Security.

MODULE 2:

Cyber Threat Intelligence and Network Security: Cyber threat intelligence has become one of the most popular topics in recent years with the explosion of cyber threat data from different data sources.

MODULE 3:

Malware Analysis, Penetration Testing and Incident Response : This module shows how to think like an attacker, how to probe systems for exploitable vulnerabilities and how to react appropriately when an incident occurs.

MODULE 4:

Digital Forensics with Legal, Ethical and Research Methods: The module focuses on the ethical and professional context of cyber security digital engineering, systems management, and digital forensics and in doing so it addresses the theory of professionals in organisations, security management, project management, the legal framework.

MODULE 5:

Data Analysis Project: In a data analysis project, the student is expected to evaluate, select and apply computational techniques for data analysis and knowledge extraction, to solve a novel data analysis or knowledge extraction problem.

MODULE 6:

Conceptual Analysis Project: In a conceptual analysis project, the student is expected to develop an analysis on paper of a system or of how to solve a problem. Such projects might involve developing an analysis of a working software system.

Program Coordinator







MUTHAYAMMAL ENGINEERING COLLEGE

(An Autonomous Institution)

(Approved by AICTE, New Delhi, Accredited by NAAC & Affiliated to Anna University) Rasipuram - 637 408, Namakkal Dist., Tamil Nadu

Office of the Controller of Examinations

Email id: coc.office@imec.edu.in

Appointment Letter

MEC / AE / COE / - VALUATION / Dec-2024

Date : 27.12.2024

From

Dr.N. Saravanan, M.Tech., Ph.D., FIE., **Controller of Examinations**

To

Dr.Jambulingam.s Designation:HOD/ECE College name: Ganesh college of Engineering Phone no:9994866089 Email id: jambueee07@gmail.com

Sir/Madam,

Sub : Appointment of Examiner to Autonomous institution - Nov/Dec-2024 Examinations - Reg.

I am by direction to inform you that you are appointed as Examiner for the paper valuation to Autonomous institution for Nov/Dec-2024 Examinations as noted below.

> : EEE Board : 28.12.2024 Date Timings : 9.00 a.m - 05.00 p.m

You are requested to decline the order, if your Son / Daughter / Relative is appearing in the Subject(s) for which you have been appointed as an Examiner. In such case, kindly inform us through Phone within two days from the receipt of this communication to make alternative arrangements.

Note : You are requested to follow the schedule and timings.

The Appointment order has to be kept strictly confidential. Your kind cooperation is requested in this regard.



Yours faithfully

CONTROLLER OF EXAMINATIONS MUTHAYAMMAL ENGINEERING COLLEGI (AUTONOMOUS) RASIPURAM - 637 488. NAMAKIKAL DIST





PRINCIPAL Ganesh College of Engineering Attur Main Road, Metturiett





Accredited by NAAC with "A" Drade, UGC Reception 210 Status, An ISD 9005205 Contrast Institution, Approved by AICTE New Delle, Attituded to Anna Delensity Chemical PONNUSAMY NACAR, SALEM ROAD(NH 44), NAMAKKAL-637033, TAMILNADU, Mobile 9942099122, 9942099109, Web, www.schamtech.edu.in

OFFICE OF THE CONTROLLER OF EXAMINATIONS

Mobile: 9363036225

Mail id: coe@selvamtech.edu.in

APPOINTMENT ORDER FOR QUESTION PAPER SCRUTINY MEMBER

Ref. No:SCT/CoE/NOV-DEC-2024/QP Scrutiny/55

Date: 29.10.2024

To

Dr.N.Senthilkumar, Associate Professor, Mechanical, Ganesh College of Engineering, Salem

Sir/Madam,

Sub: UG/PG Degree Examinations NOV/DEC-2024-Appointment of Scrutiny of Question Paper - Reg.

We have the honor by direction to inform you that you are appointed as Expert Member for Scrutiny of Question Paper for NOV/DEC-2024 Examinations of our college. We would be grateful for sparing your valuable time, efforts and also appreciate your commitment for the same.

Name of the Board	MECH
Date & Time	9.11.2024 @ 10:00AM
Venue	CoE Office, Selvam College of Technology

Remuneration for the scrutiny work will be provided as per the norms of the institute. Kindly keep the order confidential. Solicit your kind cooperation in this regard.



With warm regards,

Controller of Examinations

PRINCIPAL Ganesh College of Engineering Attur Main Road, Mettupatt! SALEM-638 111



Examiner for Central Valuation

20.09.2023

From

The Zonal Coordinator Anna University Chennal 25.

To

PROF.K.JAISON JAYARAJ, AP , FACULTY ID(6206114) - Board - PHYSICS 5206 - GANESH COLLEGE OF ENGG

Sir,

Sub: Central Valuation- U.G (I&II semester)- R2021 Examinations- Zone 8 Confidential work-Reg.

I am by direction pleased to appoint you as the Examiner for Central Valuation at GOVERNMENT COLLEGE OF ENGINEERING - SALEM (6177) From 22.09.2023 to 27.09.2023. You are requested to report to the Camp Officer at 8.30 A.M. during the days of central valuation at the above venue. The duties and responsibilities of the Examiner are enclosed herewith for your ready reference and strict adherence. You are eligible to claim remuneration and allowances as per the norms.

The above orders have to be kept confidential. I seek your kind cooperation for the successful completion of the Central Valuation.

yours sincerely,

- sd/-

Zonal Coordinator





Construction (2020) III - Laboration

PRITICIPAL Ganesh College of Engineerin Attur Main Road, Mettupatti SALEM-636 111



ANNA UNIVERSITY :: CHENNAI - 600 025

OFFICE OF THE CONTROLLER OF EXAMINATIONS

Examiner for Central Valuation

20.09.2023

From

The Zonal Coordinator Anna University Chennai 25.

To

PROF.M.MOHAN, AP , FACULTY ID(6206148) - Board - MECH 6206 - GANESH COLLEGE OF ENGG

Sir,

Sub: Central Valuation- U.G (I&II semester)- R2021 Examinations- Zone & Confidential work-Reg.

I am by direction pleased to appoint you as the Examiner for Central Valuation at GOVERNMENT COLLEGE OF ENGINEERING - SALEM (6177) From 22.09.2023 to 27.09.2023. You are requested to report to the Camp Officer at 8.30 A.M. during the days of central valuation at the above venue. The duties and responsibilities of the Examiner are enclosed herewith for your ready reference and strict adherence. You are eligible to claim remuneration and allowances as per the norms.

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yours sincerely.

- sd/-

Zonal Coordinator





Deservices STOCKETCH Televice Investment Institutioners PRINCIPAL Ganesh College of Engineerin: Attur Main Road, Mettupati SALEM-636 111



Examiner for Central Valuation

20.09.2023

From

The Zonal Coordinator Anna University Chennai 25.

To

PROF.S.REVATHI, AP , FACULTY ID(6206212) - Board - ENGLISH 6206 - GANESH COLLEGE OF ENGG

Sir.

Sub: Central Valuation- U.G (I&II semester)- R2021 Examinations- Zone 8 Confidential work-Reg.

.....

I am by direction pleased to appoint you as the Examiner for Central Valuation at GOVERNMENT COLLEGE OF ENGINEERING - SALEM (6177) From 22.09.2023 to 27.09.2023. You are requested to report to the Camp Officer at 8.30 A.M. during the days of central valuation at the above vonue. The duties and responsibilities of the Examiner are enclosed herewith for your ready reference and strict adherence. You are eligible to claim remuneration and allowances as per the norms.

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yours sincerely.

- sd/-

Zonal Coordinator





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PRINCIPAL Ganash College of Engineer Attur Main Road, Mettur SALEM-ASE ***



ANNA UNIVERSITY :: CHENNAI - 600 025

OFFICE OF THE CONTROLLER OF EXAMINATIONS

Examiner for Central Valuation

20.09.2023

From

The Zonal Coordinator Anna University Chennai 25,

To

PROF.T.PRIYA, AP , FACULTY ID(6206095) - Board - MATHS 6206 - GANESH COLLEGE OF ENGG

Sir,

Sub: Central Valuation- U.G (I&II semester)- R2021 Examinations- Zone 8 Confidential work-Reg.

I am by direction pleased to appoint you as the Examiner for Central Valuation at GOVERNMENT COLLEGE OF ENGINEERING - SALEM (6177) From 22.09.2023 to 27.09.2023. You are requested to report to the Camp Officer at 8.30 A.M. during the days of central valuation at the above venue. The duties and responsibilities of the Examiner are enclosed herewith for your ready reference and strict adherence. You are eligible to claim remuneration and allowances as per the norms.

The above orders have to be kept confidential. I seek your kind cooperation for the successful completion of the Central Valuation.

yours sincerely.

- sd/-

Zonal Coordinator





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Examiner for Central Valuation

20.09.2023

From

The Zonal Coordinator Anna University Chennal 25.

To

PROF.R.SUNDARAM, AP , FACULTY ID(6206158) - Board - CSE 6206 - GANESH COLLEGE OF ENGG

Sir.

Sub: Central Valuation- U.G (I&II semester)- R2021 Examinations- Zone 8 Confidential work-Reg.

I am by direction pleased to appoint you as the Examiner for Central Valuation at GOVERNMENT COLLEGE OF ENGINEERING - SALEM (6177) From 22.09.2023 to 27.09.2023. You are requested to report to the Camp Officer at 8.30 A.M. during the days of central valuation at the above venue. The duties and responsibilities of the Examiner are enclosed herewith for your ready reference and strict adherence. You are eligible to claim remuneration and allowances as per the norms.

The above orders have to be kept confidential. I seek your kind cooperation for the successful completion of the Central Valuation.

yours sincerely,

- sd/-

Zonal Coordinator





PRINCIPAL Ganesh College of Engineering Attur Main Road, Metturya SALEM-636 111



SE OF THE CONTROLLER OF EXAMINATIO

Examiner for Central Valuation

20.09.2023

From

The Zonal Coordinator Anna University Chennai 25.

To

PROF.M.KARTHIKEYAN, ASP , FACULTY ID(6206024) - Board - EEE 6206 - GANESH COLLEGE OF ENGG

Sir

Sub: Central Valuation- U.G (I&II semester)- R2021 Examinations- Zone 8 Confidential work-Reg.

I am by direction pleased to appoint you as the Examiner for Central Valuation at GOVERNMENT COLLEGE OF ENGINEERING - SALEM (6177) From 22.09.2023 to 27.09.2023. You are requested to report to the Camp Officer at 6.30 A.M. during the days of central valuation at the above venue. The duties and responsibilities of the Examiner are enclosed herewith for your ready reference and strict adherence. You are eligible to claim remuneration and allowances as per the norms.

The above orders have to be kept confidential. I seek your kind cooperation for the successful completion of the Central Valuation.

yours sincerely,

~sd/-

Zonal Coordinator





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ANNA UNIVERSITY :: CHENNAI - 600 025

OFFICE OF THE CONTROLLER OF EXAMINATIONS

Examiner for Central Valuation

21.09.2023

From

The Zonal Coordinator Anna University Chennal 25.

To

PROF.KALAIVANI L, AP , FACULTY ID(6206224) - Board - TAMIL 6206 - GANESH COLLEGE OF ENGG

Sir.

Sub: Central Valuation- U.G (I&II semester)- R2021 Examinations- Zone 8 Confidential work-Reg.

I am by direction pleased to appoint you as the Examiner for Central Valuation at GOVERNMENT COLLEGE OF ENGINEERING - SALEM (6177) From 22.09.2023 to 27.09.2023. You are requested to report to the Camp Officer at 8.30 A.M. during the days of central valuation at the above venue. The duties and responsibilities of the Examiner are enclosed herewith for your ready reference and strict adherence. You are eligible to claim remuneration and allowances as per the norms.

The above orders have to be kept confidential. I seek your kind cooperation for the successful completion of the Central Valuation.

yours sincerely,

~ sd/-

Zonal Coordinator





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Examiner for Central Valuation

23.05.2023

From

The Zonal Coordinator Anna University Chennai 25.

To

PROF.SAKTHIVEL K, TAMIL(Faculty Code:6206223) - Board - TAMIL 6206 - GANESH COLLEGE OF ENGG

Sir.

Sub: Central Valuation- Phase - 3 - Zone 8 Confidential work-Reg.

I am by direction pleased to appoint you as the Examiner for Central Valuation at GOVERNMENT COLLEGE OF ENGINEERING - SALEM (6177) From 24.05.2023 to 31.05.2023. You are requested to report to the Camp Officer at 8.30 A.M. during the days of central valuation at the above venue. The duties and responsibilities of the Examiner are enclosed herewith for your ready reference and strict adherence. You are eligible to claim remuneration and allowances as per the norms.

The above orders have to be kept confidential. I seek your kind cooperation for the successful completion of the Central Valuation.

yours sincerely.

- sd/-

Zonal Coordinator





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PRINCIPAL Ganesh College of Engineerin, Attur Main Road, Mettupatti SALEM-636 111



ANNA UNIVERSITY :: CHENNAI - 600 025

OFFICE OF THE CONTROLLER OF EXAMINATIONS

Examiner for Central Valuation

23.05.2023

From

The Zonal Coordinator Anna University Chennal 25.

To

PROF.SAKTHIVEL K, TAMIL(Faculty Code:6206223) – Board - TAMIL 6206 - GANESH COLLEGE OF ENGG

Sir,

Sub: Central Valuation- Phase - 3 - Zone 8 Confidential work-Reg.

I am by direction pleased to appoint you as the Examiner for Central Valuation at GOVERNMENT COLLEGE OF ENGINEERING - SALEM (6177) From 24.05.2023 to 31.05.2023. You are requested to report to the Camp Officer at 6.30 A.M. during the days of central valuation at the above venue. The duties and responsibilities of the Examiner are enclosed herewith for your ready reference and strict adherence. You are eligible to claim remuneration and allowances as per the norms.

The above orders have to be kept confidential. I seek your kind cooperation for the successful completion of the Central Valuation.

yours sincerely,

- sd/-

Zonal Coordinator





Conclusive ID 22402 AVE States Physical Distribution PRINCIPAL Ganesh College of Engineering Attur Main Road, Mettupatti SAL-EM-636 111



Examiner for Central Valuation

31.05.2023

From

The Zonal Coordinator Anna University Chennai 25.

To

PROF.SAKTHIVEL K, TAMIL – Board - TAMIL 5206 - GANESH COLLEGE OF ENGG

Sir,

Sub: Central Valuation- Phase - 3 - Zone & Confidential work-Reg.

I am by direction pleased to appoint you as the Examiner for Central Valuation at GOVERNMENT COLLEGE OF ENGINEERING - SALEM (6177) From 01.06.2023 to 10.06.2023. You are requested to report to the Camp Officer at 8.30 A.M. during the days of central valuation at the above venue. The duties and responsibilities of the Examiner are enclosed herewith for your ready reference and strict adherence. You are eligible to claim remuneration and allowances as per the norms.

The above orders have to be kept confidential. I seek your kind cooperation for the successful completion of the Central Valuation.

yours sincerely,

- sd/-Zonal Coordinator





dans Salarina Millind (R. Baka Pune bur (NJ) Jakatti PRINCIPAL Ganesh College of Engineert Attur Main Road, Mettupe SALEM-693 111



Examiner for Central Valuation

09.06.2023

From

The Zonal Coordinator Anna University Chennai 25.

To

PROF.SAKTHIVEL K, TAMIL – Board - TAMIL 6206 - GANESH COLLEGE OF ENGG

Sir.

Sub: Central Valuation- Phase - 3 - Zone 8 Confidential work-Reg.

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yours sincerely;

- sd/-Zonal Coordinator





PRINCIPAL Ganesh College of Engineering Attur Main Road, Mettupatti SALEM-636 111

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Examiner for Central Valuation

16.06.2023

From

The Zonal Coordinator Anna University Chennai 25.

To

PROF.T.PRIYA, AP , FACULTY ID(6205095) - Board - MATHS 6206 - GANESH COLLEGE OF ENGG

Sir.

Sub: Central Valuation- Phase - 1 - Zone & Confidential work-Reg.

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- ad/-

Zonal Coordinator





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PRINCIPAL Ganesh College of Engineering Attur Main Road, Mettupatti SALEM-636 111



OFFICE OF THE CONTROLLER OF EXAMINATIONS

Examiner for Central Valuation

16.06.2023

From

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PROF.S.MANGAIYARKARASI, AP , FACULTY ID(6206220) - Board - MATHS 6206 - GANESH COLLEGE OF ENGG

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Ganesii College of Engineerin Attur Main Road, Methupati SALEM-636 111

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Examiner for Central Valuation

16.06.2023

From

The Zonal Coordinator Anna University Chennai 25.

To

PROF.P.BANUPPRIYA, AP , FACULTY ID(6206173) - Board - CSE 6206 - GANESH COLLEGE OF ENGG

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PRINCIPAL Ganeeb College of Engineering

Attur Main Road, Mettupatti SALEM-636 111



Examiner for Central Valuation

16.06.2023

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SALEM-635 111



Examiner for Central Valuation

16.06,2023

From

The Zonal Coordinator Anna University Chennai 25.

То

PROF.C.SILAMDARASAN, AP , FACULTY ID(6206183) - Board - CSE 6206 - GANESH COLLEGE OF ENGG

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Examiner for Central Valuation

16.06.2023

From

The Zonal Coordinator Anna University Chennai 25.

To

PROF.R.ASHOK KUMAR, AP , FACULTY ID(6206184) - Board - CSE 6206 - GANESH COLLEGE OF ENGG

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PRINCIPAL Ganesh College of Engineer: Attur Main Road, Mettupatu SALEM-636 111



Examiner for Central Valuation

16.06.2023

From

The Zonal Coordinator Anna University Chennal 25.

To

PROF.P.BALASUBRAMANIAM, AP , FACULTY ID(6206037) - Board - ECE 6206 - GANESH COLLEGE OF ENGG

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OFFICE OF THE CONTROLLER OF EXAMINATIONS

Examiner for Central Valuation

16.06.2023

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PROF.R.SUNDARAM, AP , FACULTY ID(6206168) - Board - CSE 6206 - GANESH COLLEGE OF ENGG

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Name EXCEPTION (1) Former Name 2010 (2010) (1) PRINCIPAL Ganesh College of Engineering Attur Main Road, Mettupatti SALEM-636 111



Examiner for Central Valuation

16.08.2023

From

The Zonal Coordinator Anna University Chennal 25.

To

PROF.G.VISALAKSHI, ASP , FACULTY ID(6206084) - Board - EEE 6206 - GANESH COLLEGE OF ENGG

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PROF.R.KARTHIKEYAN, AP , FACULTY ID(6206067) - Board - EEE 6206 - GANESH COLLEGE OF ENGG

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PRINCIPAL Ganesh College of Engineerin Attur Main Road, Mettupa" SALEM-698 111

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Examiner for Central Valuation

16.06.2023

From

The Zonal Coordinator Anna University Chennai 25.

To

PROF.V.JAGADEESHWAR, AP , FACULTY ID(6206153) - Board - MECH 6206 - GANESH COLLEGE OF ENGG

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PRINCIPAL Ganesh College of Engine Attur Main Road, Melbup SALEM-636 111



Examiner for Central Valuation

16.06.2023

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The Zonal Coordinator Anna University Chennai 25.

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PROF.M.RAMKUMAR, AP , FACULTY ID(6206151) - Board - MECH 6206 - GANESH COLLEGE OF ENGG

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Ganesh College of Engineerin Attur Main Road, Mettupal' SALEM-636 111



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PROF.S.SIVAKUMAR, AP , FACULTY ID(6206131) - Board - MECH 6206 - GANESH COLLEGE OF ENGG

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PRINCIPAL Ganesh College of Engineering Attur Main Road, Mettupatti SALEM-638 111



ICE OF THE CONTROLLER OF EXAMINATION

Examiner for Central Valuation

16.06.2023

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The Zonal Coordinator Anna University Chennai 25.

To

PROF.E.VENKATESAN, AP , FACULTY ID(6296119) - Board - MECH 6206 - GANESH COLLEGE OF ENGG

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Dire Completes (CADIN) Mr. Solari Director (Addination) PRINCIPAL Ganesh College of Engineering Attur Main Road, Mettupatti SALEM-636 111



Examiner for Central Valuation

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The Zonal Coordinator Anna University Chennai 25.

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PROF.M.MOHAN, AP , FACULTY ID(6206148) - Board - MECH 6206 - GANESH COLLEGE OF ENGG

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16.06.2023

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PROF.A.GOWRISHANKAR, AP , FACULTY ID(6206118) - Board - MECH 6206 - GANESH COLLEGE OF ENGG

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PRINCIPAL Ganesh College of Engineering Attur Main Road, Mettupatti SALEM-636 111



OFFICE OF THE CONTROLLER OF EXAMINATIONS

Examiner for Central Valuation

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The Zonal Coordinator Anna University Chennai 25.

To

PROF.T.GOBI, AP , FACULTY ID(6206070) - Board - CIVIL 6206 - GANESH COLLEGE OF ENGG

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PRINCIPAL Ganesh College of Engineerir Attur Main Road, Mettupatti SALEM-636 111

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To

PROF.J.M.VENKATESAN, AP , FACULTY ID(6206204) - Board - CIVIL 6206 - GANESH COLLEGE OF ENGG

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PR SIPAL Ganesh College of Engineering Attur Main Road, Mettupatti SALEM-636 111



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PROF.S.TAMILARASI, AP , FACULTY ID(6206192) - Board - CIVIL 6206 - GANESH COLLEGE OF ENGG

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Jose Contingen ST2CND (1) Contr Projector, and Control PRINCIPAL Genesh College of Engineerin Attur Main Road, Mettupatti SALEM-636 111



Examiner for Central Valuation

16.06.2023

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PROF.E.NANDHINI, AP , FACULTY ID(6206191) - Board - CIVIL 6206 - GANESH COLLEGE OF ENGG

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Examiner for Central Valuation

10.07.2023

From

The Zonal Coordinator Anna University Chennai 25.

To

PROF.C.SILAMDARASAN, AP , FACULTY ID(6206183) - Board - CSE 6206 - GANESH COLLEGE OF ENGG

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FIR Ganesh College of Engineerin Attur Main Road, Mettupatti SALEM-636 111



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Java Constitute STATING Str. Salar Para No. 2417 4241411

PAL. Gannah Colour of Engineering Amar Main Road, Menupatri SALEM-636 111



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Jan Lawlook (CDP); (E. Saler Mary In: 107-2147) Ganesh College of Engineering Attur Main Road, Mettupatti SALEM-636 111



Examiner for Central Valuation

10.07.2023

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PROF.LANGU, AP , FACULTY ID(6206170) - Board - MECH 6206 - GANESH COLLEGE OF ENGG

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Ganesh College of Engineer Attur Main Road, Mettupal SALEM-636 111



OFFICE OF THE CONTROLLER OF EXAMINATIONS

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The Zonal Coordinator Anna University Chennai 25,

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PROF.R.KARTHIKEYAN, AP , FACULTY ID(6206067) - Board - EEE 6205 - GANESH COLLEGE OF ENGG

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PRINCIPAL Ganesh College of Engineeri-Attur Main Road, Metupati-SALEM-636 111.



Examiner for Central Valuation

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PROF.V.JAGADEESHWAR, AP , FACULTY ID(6206153) - Board - MECH 6206 - GANESH COLLEGE OF ENGG

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PRINCIPAL Ganesh College of Engineerir Attur Main Road, Mettupat: SALEM-636 111



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The Zonal Coordinator Anna University Chennal 25.

To

PROF.M.RAMKUMAR, AP , FACULTY ID(6206151) - Board - MECH 6206 - GANESH COLLEGE OF ENGG

Sir.

Sub: Central Valuation- Phase - 2 - Zone 8 Confidential work-Reg.

I am by direction pleased to appoint you as the Examiner for Central Valuation at GOVERNMENT COLLEGE OF ENGINEERING - SALEM (6177) From 13.07.2023 to 16.07.2023. You are requested to report to the Camp Officer at 8.30 A.M. during the days of central valuation at the above venue. The duties and responsibilities of the Examiner are enclosed herewith for your ready reference and strict adherence. You are eligible to claim remuneration and allowances as per the norms.

The above orders have to be kept confidential. I seek your kind cooperation for the successful completion of the Central Valuation.

yours sincerely.

- sd/-Zonal Coordinator





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PRINCIPAL Ganesh College of Engineerinc Attur Main Road, Mettupatti SALEM-636 111



Examiner for Central Valuation

10.07.2023

From

The Zonal Coordinator Anna University Chennai 25.

To

PROF.E.VENKATESAN, AP , FACULTY ID(6206119) - Board - MECH 6206 - GANESH COLLEGE OF ENGG

Sir,

Sub: Central Valuation- Phase - 2 - Zone 8 Confidential work-Reg.

I am by direction pleased to appoint you as the Examiner for Central Valuation at GOVERNMENT COLLEGE OF ENGINEERING - SALEM (6177) From 13.07.2023 to 16.07.2023. You are requested to report to the Camp Officer at 8.30 A.M. during the days of central valuation at the above venue. The duties and responsibilities of the Examiner are enclosed herewith for your ready reference and strict adherence. You are eligible to claim remuneration and allowances as per the norms.

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yours sincerely,

- sd/-Zonal Coordinator





PRINCIPAL Ganesh College of Engineering Attur Main Road, Mettupatti SALEM-636 111

June Locardianic WEEDW Str. Spino Prove No. 1022-2009



Examiner for Central Valuation

10.07.2023

From

The Zonal Coordinator Anna University Chennal 25.

To

PROF.S.SIVAKUMAR, AP , FACULTY ID(6206131) - Board - MECH 6206 - GANESH COLLEGE OF ENGG

Sir,

Sub: Central Valuation- Phase - 2 - Zone 8 Confidential work-Reg.

I am by direction pleased to appoint you as the Examiner for Central Valuation at GOVERNMENT COLLEGE OF ENGINEERING - SALEM (6177) From 13.07.2023 to 16.07.2023. You are requested to report to the Camp Officer at 5.30 A.M. during the days of central valuation at the above venue. The duties and responsibilities of the Examiner are enclosed herewith for your ready reference and strict adherence. You are eligible to claim remuneration and allowances as per the norms.

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yours sincerely,

- sd/-Zonal Coordinator

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Ganesh College of Engineerice Attur Main Road, Methipeth SALEM-636 111



Examiner for Central Valuation

10.07.2023

From

The Zonal Coordinator Anna University Ghennai 25.

To

PROF.E.NANDHINI, AP , FACULTY ID(6206191) - Board - CIVIL 6206 - GANESH COLLEGE OF ENGG

Sir.

Sub: Central Valuation- Phase - 2 - Zone 8 Confidential work-Reg.

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I am by direction pleased to appoint you as the Examiner for Central Valuation at GOVERNMENT COLLEGE OF ENGINEERING - SALEM (6177) From 13.07.2023 to 16.07.2023. You are requested to report to the Camp Officer at 8.30 A.M. during the days of central valuation at the above venue. The duties and responsibilities of the Examiner are enclosed herewith for your ready reference and strict adherence. You are eligible to claim remuneration and allowances as per the norms.

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yours sincerely,

- sd/-Zonal Coordinator





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Ganesh College of Engineering, Attur Main Roed, Mettupatti SALEM-636 111



OFFICE OF THE CONTROLLER OF EXAMINATIONS

Examiner for Central Valuation

10.07.2023

From

The Zonal Coordinator Anna University Chennai 25.

То

PROF.A.GOWRISHANKAR, AP , FACULTY ID(6206118) - Board - MECH 6206 - GANESH COLLEGE OF ENGG

Sir,

Sub: Central Valuation- Phase - 2 - Zone 8 Confidential work-Reg.

I am by direction pleased to appoint you as the Examiner for Central Valuation at GOVERNMENT COLLEGE OF ENGINEERING - SALEM (6177) From 13.07.2023 to 16.07.2023. You are requested to report to the Camp Officer at 8.30 A.M. during the days of central valuation at the above venue. The duties and responsibilities of the Examiner are enclosed herewith for your ready reference and strict adherence. You are eligible to claim remuneration and allowances as per the norms.

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yours sincerely.

- sd/-Zonal Coordinator





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PRINCIPAL Ganesh College of Engineerir Attur Main Roed, Mettupatti SALEM-636 111



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Examiner for Central Valuation

10.07.2023

From

The Zonal Coordinator Anna University Chennai 25.

To

PROF.S.TAMILARASI, AP , FACULTY ID(6206192) - Board - CIVIL 6206 - GANESH COLLEGE OF ENGG

Sir.

Sub: Central Valuation- Phase - 2 - Zone 8 Confidential work-Reg.

I am by direction pleased to appoint you as the Examiner for Central Valuation at GOVERNMENT COLLEGE OF ENGINEERING - SALEM (6177) From 13.07,2023 to 16.07,2023. You are requested to report to the Camp Officer at 8.30 A.M. during the days of central valuation at the above venue. The duties and responsibilities of the Examiner are enclosed herewith for your ready reference and strict adherence. You are eligible to claim remuneration and allowances as per the norms.

The above orders have to be kept confidential. I seek your kind cooperation for the successful completion of the Central Valuation.

yours sincerely.

- sd⊱ Zonal Coordinator





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OFFICE OF THE CONTROLLER OF EXAMINATIONS

Examiner for Central Valuation

10.07.2023

From

The Zonal Coordinator Anna University Chennai 25.

To

PROF.J.M.VENKATESAN, AP , FACULTY ID(6206204) - Board - CIVIL 6206 - GANESH COLLEGE OF ENGG

Sir.

Sub: Central Valuation- Phase - 2 - Zone & Confidential work-Reg.

I am by direction pleased to appoint you as the Examiner for Central Valuation at GOVERNMENT COLLEGE OF ENGINEERING - SALEM (6177) From 13.07.2023 to 16.07.2023. You are requested to report to the Camp Officer at 6.30 A.M. during the days of central valuation at the above venue. The duties and responsibilities of the Examiner are enclosed herewith for your ready reference and strict adherence. You are eligible to claim remuneration and allowances as per the norms.

The above orders have to be kept confidential. I seek your kind cooperation for the successful completion of the Central Valuation.

yours sincerely,

- sd/-Zonal Coordinator





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PRINCIPAL Ganesh College of Engineering Attur Main Road, Mettupati SALEM-636 111



Examiner for Central Valuation

21.08.2023

From

The Zonal Coordinator Anna University Chennai 25.

To

PROF.T.PRIYA, AP, FACULTY ID(6206095) - Board - MBA 6206 - GANESH COLLEGE

Sir.

Sub: Central Valuation- A/M - 2023 - PG R2021 - Zone & Confidential work-Reg.

I am by direction pleased to appoint you as the Examiner for Central Valuation at GOVERNMENT COLLEGE OF ENGINEERING - SALEM (6177) From 22.08.2023 to 31.08.2023. You are requested to report to the Camp Officer at 8.30 A.M. during the days of central valuation at the above venue. The duties and responsibilities of the Examiner are enclosed herewith for your ready reference and strict adherence. You are eligible to claim remuneration and allowances as per the norms.

The above orders have to be kept confidential. I seek your kind cooperation for the successful completion of the Central Valuation.

yours sincerely,

- sd/-Zonal Coordinator





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Examiner for Central Valuation

26.08.2023

From

The Zonal Coordinator Anna University Chennai 25.

To

PROF.T.PRIYA, AP, FACULTY ID(6206095) - Board - MBA 5206 - GANESH COLLEGE

Sir.

Sub: Central Valuation- A/M - 2023 - PG R2021 - Zone B Confidential work-Reg.

I am by direction pleased to appoint you as the Examiner for Central Valuation at GOVERNMENT COLLEGE OF ENGINEERING - SALEM (6177) From 27.08.2023 to 05.09.2023. You are requested to report to the Camp Officer at 8.30 A.M. during the days of central valuation at the above venue. The duties and responsibilities of the Examiner are enclosed herewith for your ready reference and strict adherence. You are eligible to claim remuneration and allowances as per the norms.

The above orders have to be kept confidential, I seek your kind cooperation for the successful completion of the Central Valuation.

yours sincerely,

- sd/-Zonal Coordinator





PRINCIPAL

Ganesh College of Engineering Attur Main Road, Meltupatti SALEM-636 111