

**Study Scheme for
UG Batch 2016
to Onward
Approved by SLIET
Senate in its 19TH
Meeting held on
31.05.2017
Vide Item no. 19.11**



(1/4)

1/27

19/10/2016

GCS - Degree in Computer Science & Engineering

Group-B

Semester-I Group-B (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	CYT-411	Applied Chemistry	3	1	0	4	4
2	HUT-412	Engineering Economics and Entrepreneurship	3	1	0	4	4
3	CST-411	Elements of Computer Programming	2	0	0	2	2
4	ECT-411	Elements of Electronics Engineering	3	1	0	4	4
5	MET-412	Workshop Technology & Practice-I	2	0	0	2	2
6	CYP-411	Applied Chemistry	0	0	2	2	1
7	CSP-411	Elements of Computer Programming	0	0	2	2	1
8	ECP-411	Elements of Electronics Engineering	0	0	2	2	1
9	MEP-413	Engineering Drawing*	0	0	4	4	2
10	WSP-412	Workshop Technology & Practice-I	0	0	4	4	2
Total			13	3	14	30	23

Semester-II Group-B (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AMT-421	Engineering Mathematics	3	1	0	4	4
2	PHT-421	Applied Physics	3	1	0	4	4
3	HUT-421	English Communication & Soft Skills	3	0	0	3	3
4	EET-421	Elements of Electrical Engineering	3	1	0	4	4
5	MET-421	Elements of Mechanical Engineering	3	1	0	4	4
6	PHP-421	Applied Physics	0	0	2	2	1
7	HUP-421	English Communication & Soft Skills	0	0	2	2	1
8	EET-421	Elements of Electrical Engineering	0	0	2	2	1
9	MEP-421	Elements of Mechanical Engineering	0	0	2	2	1
Total			15	4	8	27	23

Semester-III A Group-A (UG: Practical Training)

	TPS-501*^	Two weeks Practical Training during summer vacations				80	2 (S/US)
--	-----------	--	--	--	--	----	----------

Semester-III Group-B (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	CST-511	Operating System	3	0	0	3	3
2	CST-512	Digital Circuit and Logic Design	3	0	0	3	3
3	CST-513	Discrete Mathematics	3	0	0	3	3
4	CST-514	Database Management System	3	0	0	3	3
5	CST-515	Data Communication and Computer Networks	3	0	0	3	3
6	CST-516	Software Engineering	3	0	0	3	3
7	CSP-511	Operating System	0	0	2	2	1
8	CSP-512	Digital Circuit and Logic Design	0	0	2	2	1
9	CSP-514	Database Management System	0	0	2	2	1
10	CSP-515	Data Communication and Computer Networks	0	0	2	2	1
Total			18	0	8	26	22



P.T.O

Head
Dept. of Computer Science & Engg.
SLET Longowal (Pb.)
LONGOWAL-148106 (Punjab)

2/4

2/27

Semester-IV Group-B (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AMT-521	Higher Engg Mathematics	4	0	0	4	4
2	CST-521	Web Technologies	3	0	0	3	3
3	CST-522	Computer Organization	3	0	0	3	3
4	CST-523	Data Structures and Algorithms	3	1	0	4	4
5	CST-524	System Software	3	1	0	4	4
6	CST-525	Automata and Formal Languages	3	0	0	3	3
7	CSP-521	Web Technologies	0	0	4	4	2
8	CSP-523	Data Structures and Algorithms	0	0	2	2	1
9	CSP-524	System Software	0	0	2	2	1
Total			19	2	8	29	25

Semester-V Group-B (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	PHT-611	Physics of Matetials	3	1	0	4	4
2	CST-611	Algorithm Analysis and Design	3	1	0	4	4
3	CST-612	Artificial Intelligence	3	0	0	3	3
4	CST-613	Software Reliability and Testing	3	0	0	3	3
5	CST-614	Microprocessor and Applications	3	0	0	3	3
6	CST-615	Data Mining and Warehousing	3	0	0	3	3
7	PHP-611	Physics of Matetials	0	0	2	2	1
8	CSP-611	Algorithm Analysis and Design	0	0	2	2	1
9	CSP-613	Software Reliability and Testing	0	0	2	2	1
10	CSP-614	Microprocessor and Applications	0	0	2	2	1
Total			18	2	8	28	24

Semester-VI Group-B (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AMT-621	Numerical Analysis	3	1	0	4	4
2	CST-621 (A-D)	Elective - I	3	0	0	3	3
3	**O-62*	Open Elective-I	3	0	0	3	3
4	CST-623	Computer Graphics and Multimedia	3	1	0	4	4
5	CST-624	Network Programming	3	1	0	4	4
6	CST-625	Simulation and Modeling	3	1	0	4	4
7	AMP-621	Numerical Analysis	0	0	2	2	1
8	CSP-623	Computer Graphics and Multimedia	0	0	2	2	1
9	CSP-624	Network Programming	0	0	2	2	1
10	CSP-625	Simulation and Modeling	0	0	2	2	1
Total			18	4	8	30	26

PTO



Head
Department of Science & Engg
Guru Longowal Inst. of Engg. & Tech.
LONGOWAL-148106 (Punjab)

3/4

3/27

Semester- VIIA (UG:Industrial Training)							
	TPS-701*^	Industrial Training during summer vacations (6 weeks)				200	8 (S/US)

Semester-VII Group-B (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	HUM-711	Human Values and Professional Ethics	2	0	0	2	2
2	CST-711 (A-D)	Elective - II	3	0	0	3	3
3	CST-712	Advanced Computer Architecture	3	1	0	4	4
4	CST-713	Compiler Design	3	1	0	4	4
5	**O-71*	Open Elective-II	3	0	0	3	3
6	CSP-715	Project	0	0	6	6	3
7	CSP-716	Emerging Technologies	0	0	2	2	1
		Total	14	2	8	24	20

Semester-VIII Group-B (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	CHM-721	Environmental Studies	3	0	0	3	3
2	HUT-721	Principles of Management	3	1	0	4	4
3	CST-721 (A-D)	Elective - III	3	0	0	3	3
4	CST-722	Soft Computing	3	0	0	3	3
5	**O-72*	Open Elective-III	3	0	0	3	3
6	CSP-722	Soft Computing	0	0	2	2	1
7	CSP-723	Project	0	0	6	6	3
8	CSP-724	Seminar	0	0	4	4	2
9	CSP-725	Advanced Technologies	0	0	2	2	1
		Total	15	1	14	30	23

*^ The credit will not be considered for CGPA calculation

	Theory	Tutorial	Practical	Hrs.	Credits
Total Basic Sciences	19	5	8	32	28
Total Humanities	9	2	2	13	12
Total Other Engineering	11	3	14	28	21
Total Open Electives	9	0	0	9	9
Total Core Subject	77	8	40	125	105
Total Mandatory Courses	5	0	0	5	5
Projects	0	0	12	12	6
Summer Training and Industrial Training					10
Total	130	18	76	224	186

PTO

19/10/16

Head
Department of Mechanical & Engg.
Longowal (Pb.)
LONGOWAL (Pb.)



4/4

4/27

LIST OF ELECTIVES						
S.No	Subject	Subject name	L	T	P	Cr
Elective-I						
1	CST-621 A	Advance Microprocessor	3	0	0	3
2	CST-621 B	Cryptography	3	0	0	3
3	CST-621 C	Digital signal Processing	3	0	0	3
4	CST-621 D	Natural Language Processing	3	0	0	3
Elective-II						
1	CST-711 A	Operating System internals	3	0	0	3
2	CST-711 B	Distributed Systems	3	0	0	3
3	CST-711C	Operation Research	3	0	0	3
4	CST-621 D	Client-Server architecture	3	0	0	3
Elective-III						
1	CST-721 A	Mobile Communication Systems	3	0	0	3
2	CST-721 B	Embedded Systems	3	0	0	3
3	CST-721 C	Visual Programming	3	0	0	3
4	CST-721 D	Digital image Processing	3	0	0	3

LIST OF OPEN ELECTIVES						
Sr.	Subject	Subject name	L	T	P	Cr.
Open Elective-I						
1	CSO-621	System Management & Security	3	0	0	3
2	CSO-622	Object Oriented Programming	3	0	0	3
3	CSO-623	Software Engineering	3	0	0	3
Open Elective-II						
1	CSO-711	Internet Technologies	3	0	0	3
2	CSO-712	Computer Networks	3	0	0	3
3	CSO-713	Data Organization	3	0	0	3
Open Elective-III						
1	CSO-721	Java Programming	3	0	0	3
2	CSO-722	Cloud Computing	3	0	0	3
3	CSO-723	Computer graphics	3	0	0	3

PTD

19/10/16



5/27

GEC - Degree in Electronics & Communication Engineering							
Group-B							
Semester-I Group-B (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	CYT-411	Applied Chemistry	3	1	0	4	4
2	HUT-412	Engineering Economics and Entrepreneurship	3	1	0	4	4
3	CST-411	Elements of Computer Programming	2	0	0	2	2
4	ECT-411	Elements of Electronics Engineering	3	1	0	4	4
5	MET-412	Workshop Technology & Practice-I	2	0	0	2	2
6	CYP-411	Applied Chemistry	0	0	2	2	1
7	CSP-411	Elements of Computer Programming	0	0	2	2	1
8	ECP-411	Elements of Electronics Engineering	0	0	2	2	1
9	MEP-413	Engineering Drawing*	0	0	4	4	2
10	WSP-412	Workshop Technology & Practice-I	0	0	4	4	2
Total			13	3	14	30	23
Semester-II Group-B (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AMT-421	Engineering Mathematics	3	1	0	4	4
2	PHT-421	Applied Physics	3	1	0	4	4
3	HUT-421	English Communication & Soft Skills	3	0	0	3	3
4	EET-421	Elements of Electrical Engineering	3	1	0	4	4
5	MET-421	Elements of Mechanical Engineering	3	1	0	4	4
6	PHP-421	Applied Physics	0	0	2	2	1
7	HUP-421	English Communication & Soft Skills	0	0	2	2	1
8	EEP-421	Elements of Electrical Engineering	0	0	2	2	1
9	MEP-421	Elements of Mechanical Engineering	0	0	2	2	1
Total			15	4	8	27	23
Semester-III Group-A (UG: Practical Training)							
	TPS-501*^	Two weeks Practical Training during summer vacations				80	2 (S/US)
Semester-III Group-B (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	ECT-511	Network Analysis & Synthesis	3	1	0	4	4
2	ECT-512	Signals & Systems	3	1	0	4	4
3	ECT-513	Digital Electronics	3	1	0	4	4
4	ECT-514	Electronic Devices & Circuits	3	1	0	4	4
5	ECT-515	Electronic Measurements & instrumentation	3	0	0	3	3
6	ECP-513	Digital Electronics	0	0	2	2	1
7	ECP-514	Electronic Devices & Circuits	0	0	2	2	1
8	ECP-515	Electronic Measurements & instrumentation	0	0	2	2	1
Total			15	4	6	25	22
Semester-IV Group-B (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AMT-521	Higher Engg Mathematics	4	0	0	4	4
2	ECT-521	Analog Communication	3	1	0	4	4
3	ECT-522	Analog Electronic Circuits	3	1	0	4	4
4	ECT-523	Microprocessor & Applications	3	0	0	3	3
5	ECT-524	Digital System Design	3	0	0	3	3
6	ECP-521	Analog Communication	0	0	2	2	1
7	ECP-522	Analog Electronic Circuits	0	0	2	2	1
8	ECP-523	Microprocessor & Applications	0	0	2	2	1
9	ECP-524	Digital System Design	0	0	2	2	1
Total			16	2	8	26	22

PTO



(Sarbjit Singh)

(Dilip Kumar)

(Ajay Pal Singh)

(Surinder Singh)

(A. Marwaha)

(A.P. Singh)

(J.S. Ubhi)

15/5/17

6/27

Semester-V Group-B (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	PHT-611	Physics of Materials	3	1	0	4	4
2	ECT-611	Digital Communication	3	1	0	4	4
3	ECT-612	EMF & Transmission Lines	3	0	0	3	3
4	ECT-613	Linear IC's & Applications	3	0	0	3	3
5	ECT-615	Microelectronics	3	0	0	3	3
6	ECT-616	Computer Communication Networks	3	0	0	3	3
7	PHP-611	Physics of Matetials	0	0	2	2	1
8	ECP-611	Digital Communication	0	0	2	2	1
9	ECP-613	Linear IC's & Applications	0	0	2	2	1
10	ECS-501	Seminar	0	0	2	2	1
Total			18	2	8	28	24
Semester-VI Group-B (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AMT-621	Numerical Analysis	3	1	0	4	4
2	**O-62*	Respective Elective Subject	3	0	0	3	3
3	ECT-621	Electives-I	4	0	0	4	4
4	ECT-622	Microcontroller & Embedded System	3	0	0	3	3
5	ECT-623	Antenna System Engineering	3	0	0	3	3
6	ECT-624	Control System Engineering	3	1	0	4	4
7	AMP-621	Numerical Analysis	0	0	2	2	1
8	ECP-622	Microcontroller & Embedded System	0	0	2	2	1
9	ECS-601	Seminar	0	0	2	2	1
Total			19	2	6	27	24
Semester- VIIA (UG:Industrial Training)							
	TPS-701*^	Industrial Training during summer vacations (6 weeks)				200	8 (S/US)
Semester-VII Group-B (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	HUM-711	Human Values and Professional Ethics	2	0	0	2	2
2	**O-71*	Respective Elective Subject	3	0	0	3	3
3	ECT-711	Elective-II	4	0	0	4	4
4	ECT-712	Digital Signal Processing	3	0	0	3	3
5	ECT-713	Wireless Communication	3	0	0	3	3
6	ECT-714	Microwave Engineering	3	0	0	3	3
7	ECP-712	Digital Signal Processing	0	0	2	2	1
8	ECP-714	Microwave Engineering	0	0	2	2	1
9	ECP-715	Minor Project	0	0	4	4	2
Total			18	0	8	26	22
Semester-VIII Group-B (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	CHM-721	Environmental Studies	3	0	0	3	3
2	HUT-721	Principles of Management	3	1	0	4	4
3	**O-72*	Respective Elective Subject	3	0	0	3	3
4	ECT-721	Elective-III	4	0	0	4	4
5	ECT-722	Elective-IV	4	0	0	4	4
6	ECT-723	Optical Fiber Communication	3	0	0	3	3
7	ECP-723	Optical Fiber Communication	0	0	2	2	1
8	ECP-724	Major Project	0	0	8	8	4
Total			20	1	10	31	26

*^ The credit will not be considered for CGPA calculation

PTD



Sarbjeet Singh

Dilip Kumar

Ajay Pal Singh

Sunder Singh

A. Marwaha

A.P. Singh

J.S. Ubhi

15/5/17

7/27

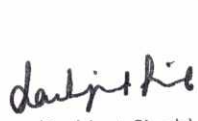
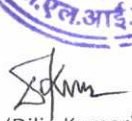
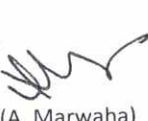
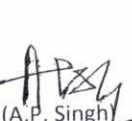
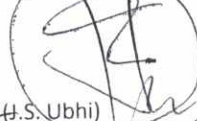
	Theory	Tutorial	Practical	Hrs.	Credits	%
Total Basic Sciences	19	5	8	32	28	14.65969
Total Humanities	9	2	2	13	12	6.282723
Total Other Engineering	13	3	16	32	24	12.56545
Total Open Electives	9	0	0	9	9	4.712042
Total Core Subject	79	8	26	113	100	52.35602
Total Mandatory Courses	5	0	0	5	5	2.617801
Projects + Seminar	0	0	16	16	8	4.188482
Summer Training and Industrial Training					10	5.235602
Total	134	18	68	220	196	

Open Elective-I

ECO-611	Principle of Communication Engineering
ECO-612	Optical Electronics
ECO-613	Electronic Measurements & Instrumentation
ECO-614	Selected Topics-I
	Open Elective -II
ECO-711	Fundamentals of Microprocessor
ECO-712	VLSI Technology
ECO-713	Nano Technology
ECO-714	selected Topic-II
	Open Elective-III
ECO-721	Biomedical Electronics
ECO-722	Microcontroller & Embedded System
ECO-723	Wireless Communication
ECO-724	Selected Topic-III



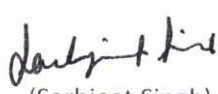
PTO

 (Sarbjeet Singh)
  (Dilip Kumar)
  (Ajay Pal Singh)
  (Surinder Singh)
  (A. Marwaha)
  (A.P. Singh)
  (J.S. Ubhi)
 19/5/17

8/27

Department Electives							
Sr. No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	ECT-621	Elective-I	4	0	0	4	4
	A	Nanotechnology					
	B	Neural Networks & Fuzzy Logic					
	C	Information Theory & Coding					
	D	Device & Circuit simulation					
	E	Pulse and Digital Switching Circuits					
	F	Selected Topic -1					
2	ECT-711	Elective-II	4	0	0	4	4
	A	Optoelectronic Devices & Circuits					
	B	Satellite Communication					
	C	MEMS					
	D	MATLAB Programming					
	E	Electronics System Design					
	F	Selected Topic -2					
3	ECT-721	Elective-III	4	0	0	4	4
	A	VLSI Physical Design					
	B	Digital Image Processing					
	C	Industrial Electronics					
	D	Medical Electronics					
	E	Computer Architecture & Organisation					
	F	Selected Topic -3					
4	ECT-722	Elective-IV	4	0	0	4	4
	A	Radar & Navigation Aids					
	B	MOS Device Physics & Modelling					
	C	Wireless Sensor Networks					
	D	Analog VLSI Design					
	E	Telecommunication Switching Systems and Networks					
	F	Selected Topic -4					

PTO









(Sarbjeet Singh) (Dilip Kumar) (Ajay Pal Singh) (Surinder Singh) (A. Marwaha) (A.P. Singh) (J.S. Uppal)



19/5/17

9/27

Batch 2016 onwards.

Electrical & Instrumentation Engineering Department

GEE - Degree in Electrical Engineering							
Group-B							
Semester-I B (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	CYT-411	Applied Chemistry	3	1	0	4	4
2	HUT-412	Engineering Economics and Entrepreneurship	3	1	0	4	4
3	CST-411	Elements of Computer Programming	2	0	0	2	2
4	ECT-411	Elements of Electronics Engineering	3	1	0	4	4
5	MET-412	Workshop Technology & Practice-I	2	0	0	2	2
6	CYP-411	Applied Chemistry Lab.	0	0	2	2	1
7	CSP-411	Elements of Computer Programming Lab.	0	0	2	2	1
8	ECP-411	Elements of Electronics Engineering lab	0	0	2	2	1
9	MEP-413	Engineering Drawing*	0	0	4	4	2
10	WSP-412	Workshop Technology & Practice-I	0	0	4	4	2
		Total	13	3	14	30	23
Semester-II B (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AMT-421	Engineering Mathematics	3	1	0	4	4
2	PHT-421	Applied Physics	3	1	0	4	4
3	HUT-421	English Communication & Soft Skills	3	0	0	3	3
4	EET-421	Elements of Electrical Engineering	3	1	0	4	4
5	MET-421	Elements of Mechanical Engineering	3	1	0	4	4
6	PHP-421	Applied Physics Lab.	0	0	2	2	1
7	HUP-421	English Communication & Soft Skills Lab.	0	0	2	2	1
8	EEP-421	Elements of Electrical Engineering Lab	0	0	2	2	1
9	MEP-421	Elements of Mechanical Engineering Lab	0	0	2	2	1
		Total	15	4	8	27	23
	TPS-501*	Two weeks Practical Training During Summer Vacation				80	2 (S/US)
Semester-III B (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	EET-511	Transformer and DC Machines	3	0	0	3	3
2	EET-512	Circuit Theory	3	1	0	4	4
3	EET-513	Electrical and Electronics Measurements	4	0	0	4	4
4	EET-514	Analog Devices and Circuits	3	1	0	4	4
5	EET-515	Digital Electronics	3	1	0	4	4
6	EEP-512	Circuit Theory Lab.	0	0	2	2	1
7	EEP-513	Electrical and Electronics Measurements Lab.	0	0	2	2	1
8	EEP-516	Electrical Workshop	0	0	2	2	1
9	EEP-517	Analog and Digital Electronics Lab.	0	0	2	2	1
		Total	16	3	8	27	23



AShullas
09.08.2017

PTO

10/27

Batch 2016 onwards.

Electrical & Instrumentation Engineering Department

Semester-IV B (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AMT-521	Higher Engineering Mathematics	4	0	0	4	4
2	EET-521	Network Analysis and Synthesis	3	1	0	4	4
3	EET-522	Asynchronous Machines	3	1	0	4	4
4	EET-523	Electric Power Transmission and Distribution	3	1	0	4	4
5	EET-524	Signals and Systems	3	1	0	4	4
6	EET-525	Microprocessor and Application	3	1	0	4	4
7	EEP-525	Microprocessor Lab.	0	0	2	2	1
8	EEP-526	Electrical Machines Lab. - I	0	0	2	2	1
Total			19	5	4	28	26
Semester-V B (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	EET-611	Synchronous and Special Electric Machines	3	1	0	4	4
2	EET-612	Linear Control System	3	1	0	4	4
3	EET-613	Industrial Electronics and Drives	3	1	0	4	4
4	EET-614	Power System Protection	3	0	0	3	3
5	EET-615	Generation and Control of Electric Power	3	1	0	4	4
6	EET-616	High Voltage Engineering	3	0	0	3	3
7	EEP-613	Industrial Electronics and Drives Lab.	0	0	2	2	1
8	EEP-617	Electrical Machines Lab - II	0	0	2	2	1
9	EEP-618	Power System Lab.	0	0	2	2	1
Total			18	4	6	28	25
Semester-VI B (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AMT-621	Numerical Analysis	3	1	0	4	4
2	EET-621	Electromagnetic Field Theory	3	1	0	4	4
3	EET-622	Non-Linear and Discrete Control System	3	1	0	4	4
4	EET-623	Power System Analysis	3	1	0	4	4
5	EET-62*	Elective - I	4	0	0	4	4
6	**O-62*	Open Elective Subject	3	0	0	3	3
7	AMP-621	Numerical Analysis Lab.	0	0	2	2	1
8	EEP-623	Power System Analysis Lab.	0	0	2	2	1
9	EEP-625	Control System Lab.	0	0	2	2	1
Total			19	4	6	29	26
TPS-701*			Industrial Training (6 weeks)			200	8 (S/US)

PTO

J. S. Miller
09/08/17

Electrical & Instrumentation Engineering Department							
Semester-VII B (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	PHT-711	Physics of Materials	3	1	0	4	4
2	HUM-711	Human Values and Professional Ethics	2	0	0	2	2
3	**O-71*	Open Elective Subject	3	0	0	3	3
4	EET-71*	Elective-II	4	0	0	4	4
5	EET-71*	Elective-III	4	0	0	4	4
6	PHP-711	Physics of Materials Lab.	0	0	2	2	1
7	EEP-713	Software and Simulation Lab	0	0	2	2	1
9	EEP-715	Minor Project	0	0	4	4	2
		Total	16	1	8	25	21
Semester-VIII B (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	CHM-721	Environmental Studies	3	0	0	3	3
2	HUT-721	Principles of Management	3	1	0	4	4
3	**O-72*	Open Elective Subject	3	0	0	3	3
4	EET-72*	Elective-IV	4	0	0	4	4
5	EEP-721	Major Project	0	0	8	8	4
6	EEP-722	Seminar	0	0	2	2	1
		Total	13	1	10	24	19

ELECTIVE -I	
EET-624	Process Dynamics and Control
EET-625	Electric Power Utilization and Traction
EET-626	Power Quality
EET-627	Power System Operation and Control
ELECTIVE-II	
EET-711	Microcontroller and PLC
EET-712	Communication Systems
EET-713	Digital Signal Processing
EET-714	Soft Computing
ELECTIVE-III	
EET-715	Sensors and Signal Conditioning
EET-716	Bio-Medical Instrumentation
EET-717	HVDC Transmission and FACTS
EET-718	Data Acquisition System
ELECTIVE -IV	
EET-721	Non-Conventional Energy Sources
EET-722	Electrical Machine Design
EET-723	Power Plant Engineering
EET-724	Energy Management and Auditing
OPEN ELECTIVES	
EEO-621	Elements of Power System
EEO-711	Electrical Special Machines
EEO-721	Energy Conservation and Practices



Signature
09.08.2017

Signature

12/27

GIN - Degree in Instrumentation & Control Engineering								
Group-B								
Semester-I B (UG)								
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits	
1	CYT-411	Applied Chemistry	3	1	0	4	4	
2	HUT-412	Engineering Economics and Entrepreneurship	3	1	0	4	4	
3	CST-411	Elements of Computer Programming	2	0	0	2	2	
4	ECT-411	Elements of Electronics Engineering	3	1	0	4	4	
5	MET-412	Workshop Technology & Practice-I	2	0	0	2	2	
6	CYP-411	Applied Chemistry Lab.	0	0	2	2	1	
7	CSP-411	Elements of Computer Programming Lab.	0	0	2	2	1	
8	ECP-411	Elements of Electronics Engineering Lab.	0	0	2	2	1	
9	MEP-413	Engineering Drawing*	0	0	4	4	2	
10	WSP-412	Workshop Technology & Practice-I	0	0	4	4	2	
		Total	13	3	14	30	23	
Semester-II B (UG)								
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits	
1	AMT-421	Engineering Mathematics	3	1	0	4	4	
2	PHT-421	Applied Physics	3	1	0	4	4	
3	HUT-421	English Communication & Soft Skills	3	0	0	3	3	
4	EET-421	Elements of Electrical Engineering	3	1	0	4	4	
5	MET-421	Elements of Mechanical Engineering	3	1	0	4	4	
6	PHP-421	Applied Physics Lab.	0	0	2	2	1	
7	HUP-421	English Communication & Soft Skills Lab.	0	0	2	2	1	
8	EEP-421	Elements of Electrical Engineering Lab.	0	0	2	2	1	
9	MEP-421	Elements of Mechanical Engineering Lab.	0	0	2	2	1	
		Total	15	4	8	27	23	
	TPS-501*	Two weeks Practical Training During Summer Vacation				80	2(S/US)	
Semester-III B (UG)								
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits	
1	IET-511	Linear Integrated Circuits	3	1	0	4	4	
2	IET-512	Measurement Sciences	3	1	0	4	4	
3	IET-513	Digital Electronics	3	1	0	4	4	
4	IET-514	Circuit Theory	3	1	0	4	4	
5	IET-515	Industrial Instrumentation-I	4	0	0	4	4	
6	IEP-511	Linear Integrated Circuits Lab.	0	0	2	2	1	
7	IEP-513	Digital Electronics Lab.	0	0	2	2	1	
8	IEP-515	Industrial Instrumentation-I Lab.	0	0	2	2	1	
9	IEP-516	Instrumentation workshop	0	0	2	2	1	
			16	4	8	28	24	



Shilpa
09.08.2017

PTD

13/27

Semester-IV B (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AMT-521	Higher Engineering Mathematics	4	0	0	4	4
2	IET-521	Signals and Systems	3	1	0	4	4
3	IET-522	Electrical and Electronics Measurement	3	1	0	4	4
4	IET-523	Control Engineering	3	1	0	4	4
5	IET-524	Industrial Instrumentation-II	3	1	0	4	4
6	IEP-522	Electrical and Electronics Measurement Lab.	0	0	2	2	1
7	IEP-523	Control Engineering Lab.	0	0	2	2	1
8	IEP-524	Industrial Instrumentation-II Lab.	0	0	2	2	1
Total			16	4	6	26	23
Semester-V B (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	IET-611	Microprocessor and Applications	4	0	0	4	4
2	IET-612	Analytical and Optical Instrumentation	3	0	0	3	3
3	IET-613	Non-Linear and Discrete Control	3	1	0	4	4
4	IET-614	Process Dynamics and Control	3	1	0	4	4
5	IET-615	Telemetry and Data Acquisition Systems	3	0	0	3	3
6	IET-61*	Elective-I	4	0	0	4	4
7	IEP-611	Microprocessor and Applications Lab.	0	0	2	2	1
8	IEP-612	Analytical and Optical Instrumentation Lab.	0	0	2	2	1
9	IEP-614	Process Dynamics and Control Lab.	0	0	2	2	1
Total			20	2	6	28	25
Semester-VI B (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AMT-621	Numerical Analysis	3	1	0	4	4
2	IET-621	Microcontroller and Embedded Systems	3	1	0	4	4
3	IET-622	Computer Control of Processes	3	1	0	4	4
4	**O-62*	Open Elective-I	3	0	0	3	3
5	IET-62*	Elective-II	4	0	0	4	4
6	IET-623	Biomedical Instrumentation	3	1	0	4	4
7	AMP-621	Numerical Analysis Lab.	0	0	2	2	1
8	IEP-621	Microcontroller and Embedded Systems Lab	0	0	2	2	1
9	IEP-623	Biomedical Instrumentation Lab	0	0	2	2	1
Total			19	4	6	29	26
TPS-701*			Industrial Training (6 weeks)			200	8(S/US)

Signature
09.08.2017

PTO



14/27

Batch 2016 Onwards

Electrical & Instrumentation Engineering Department

Semester-VII B (UG)								
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits	
1	HUM-711	Human Values and Professional Ethics	2	0	0	2	2	
2	**O-71*	Open Elective-II	3	0	0	3	3	
3	PHT-711	Physics of Materials	3	1	0	4	4	
4	IET-71*	Elective-III	4	0	0	4	4	
5	IET-711	Digital Signal Processing	3	0	0	3	3	
6	IET-712	Process Plant Instrumentation	3	0	0	3	3	
7	PHP-711	Physics of Materials Lab.	0	0	2	2	1	
8	IEP-712	Minor Project	0	0	4	4	2	
Total			18	1	6	25	22	

Semester-VIII B (UG)								
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits	
1	CHM-721	Environmental Studies	3	0	0	3	3	
2	HUT-721	Principles of Management	3	1	0	4	4	
3	**O-72*	Open Elective-III	3	0	0	3	3	
4	IET-72*	Elective-IV	4	0	0	4	4	
5	IEP-721	Virtual Instrumentation Lab.	0	0	2	2	1	
6	IEP-722	Major Project	0	0	8	8	4	
7	IEP-723	Seminar	0	0	2	2	1	
Total			13	1	12	26	20	

ELECTIVE -I	
IET-616	Environmental Instrumentation
IET-617	Robotics
IET-618	Building Automation
IET-619	Data Communication and Networking
ELECTIVE-II	
IET-624	Industrial Safety
IET-625	Machine Vision
IET-626	Energy Management and Auditing
IET-627	Reliability Engineering
ELECTIVE-III	
IET-713	Image Processing
IET-714	Introduction to MEMS
IET-715	Biomedical Signal Processing
IET-716	Non-Conventional Energy Sources
ELECTIVE -IV	
IET-721	Modelling and Simulation
IET-722	Electromagnetic Field Theory
IET-723	Nuclear Instrumentation
IET-724	Soft Computing
OPEN ELECTIVES	
IEO-721	Industrial Instrumentation
IEO-722	Analytical Instrumentation
IEO-723	Biomedical Signal Processing



Journal
09/08/2017

15/27

B.E. (Chemical Engineering)							Group A
Semester-I (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AMT-411	Engineering Mathematics	3	1	0	4	4
2	PHT-411	Applied Physics	3	1	0	4	4
3	HUT-411	English Communication & Soft Skills	3	0	0	3	3
4	EET-411	Elements of Electrical Engineering	3	1	0	4	4
5	MET-411	Elements of Mechanical Engineering	3	1	0	4	4
6	PHP-411	Applied Physics	0	0	2	2	1
7	HUP-411	English Communication & Soft Skills	0	0	2	2	1
8	EET-411	Elements of Electrical Engineering	0	0	2	2	1
9	MEP-411	Elements of Mechanical Engineering	0	0	2	2	1
			15	4	8	27	23

Semester-II (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	CYT-421	Applied Chemistry	3	1	0	4	4
2	HUT-422	Engineering Economics and Entrepreneurship	3	1	0	4	4
3	CST-421	Elements of Computer Programming	2	0	0	2	2
4	ECT-421	Elements of Electronics Engineering	3	1	0	4	4
5	MET-422	Workshop Technology & Practice-I	2	0	0	2	2
6	CYP-421	Applied Chemistry	0	0	2	2	1
7	CSP-421	Elements of Computer Programming	0	0	2	2	1
8	ECP-421	Elements of Electronics Engineering	0	0	2	2	1
9	MEP-423	Engineering Drawing*	0	0	4	4	2
10	WSP-422	Workshop Technology & Practice-I	0	0	4	4	2
			13	3	14	30	23

*ME-452 is a practical subject only with LTP : 1-0-3

PRACTICAL TRAINING

TPS0301**	Two Weeks Practical Training during Summer vacations					80	2(S/US)
-----------	--	--	--	--	--	----	---------

Semester-III (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AMT-511	Higher Engg Mathematics	4	0	0	4	4
2	CHT-511	Overview of Chemical Engineering	2	0	0	2	2
3	CHT-512	Chemical Process Calculations	3	1	0	4	4
4	CHT-513	Fluid Flow	3	1	0	4	4
4	CHT-514	Chemical Engineering Thermodynamics	3	1	0	4	4
6	CHT-515	Chemical Process Industries	3	0	0	3	3
7	CHP-513	Fluid Flow lab	0	0	3	3	1
8	CHP-514	Chemical Engineering Thermodynamics lab	0	0	3	3	1
9	CHP-515	Chemical Technology Lab	0	0	3	3	1
Total			18	3	9	30	24

Semester-IV (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	CHT-521	Mass Transfer-I	3	1	0	4	4
2	CHT-522	Heat Transfer	3	1	0	4	4
3	CHT-523	Chemical Reaction Engineering-I	3	1	0	4	4
4	CHT-524	Mechanical Operations	3	1	0	4	4
5	CHT-525	Chemical Process Instrumentation	3	0	0	3	3



18/10/16

18/10/16

18/10/16

18/10/16

18/10/16

PTO

16/27

6	CHP-521	Mass Transfer lab-I	0	0	3	3	1
7	CHP-522	Heat Transfer lab	0	0	3	3	1
8	CHP-524	Mechanical Operations lab	0	0	3	3	1
9	CHP-525	Chemical Process Instrumentation lab	0	0	2	2	1
		Total	15	4	11	30	23

Semester-V (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AMT-611	Numerical Analysis	3	1	0	4	4
2	CHT-611	Chemical Reaction Engineering-II	3	1	0	4	4
3	CHT-612	Mass transfer-II	3	1	0	4	4
4	CHT-613	Petroleum Refining and Petrochemicals	3	0	0	3	3
5	CHT-614	Elective-I	3	0	0	3	3
6	AMP-611	Numerical Analysis lab	0	0	2	2	1
7	CHP-611	Chemical Reaction Engineering-lab	0	0	3	3	1
8	CHP-612	Mass transfer -II lab	0	0	3	3	1
9	CHP-615	Seminar	0	0	2	2	1
		Total	15	3	10	28	22

Semester-VI (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	PHT-621	Physics of Matetials	3	1	0	4	4
2	**O-62*	Open Elective	3	0	0	3	3
3	CHT-621	Process equipment design and drawing	3	1	0	4	4
4	CHT-622	Process dyanamics and control	3	1	0	4	4
5	CHT-623	Transport Phenomenon	3	1	0	4	4
6	CHT-624	Energy Technology	3	0	0	3	3
7	PHP-611	Physics of Matetials lab	0	0	2	2	1
8	CHP-621	Process equipment design and drawing lab	0	0	2	2	1
9	CHP-622	Process Dynamics and control lab	0	0	2	2	1
10	CHP-624	Energy Technology lab	0	0	3	3	1
		Total	18	4	9	31	26

INDUSTRIAL TRAINING

TPS-701**	Industrial Training during Summer vacations (6 Weeks)				200	8(S/US)
-----------	---	--	--	--	-----	---------

Semester-VII (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	HUT-711	Principles of Management	3	1	0	4	4
2	**O-71*	Open Elective	3	0	0	3	3
3	CHM-711	Environmental Studies	3	0	0	3	3
4	CHT-712	Plant Design and Economics	3	1	0	4	4
5	CHT-713	Modeling and Simulation	3	0	0	3	3
6	CHT-714	Elective -II	3	0	0	3	3
7	CHP-711	Environmental Testing and Analysis lab	0	0	2	2	1
8	CHP-713	Modeling and Simulation lab	0	0	2	2	1
9	CHP-715	CAD for Chemical Engineers	0	0	3	3	1
10	CHP-720	Minor Project	0	0	4	4	2
		Total	18	2	11	31	25

Semester-VIII (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	HUM-721	Human Values and Professional Ethics	2	0	0	2	2
2	**O-72*	Open Elective	3	0	0	3	3



[Signature]

[Signature]
18/10/16

[Signature]
18/10/16

[Signature]
18/10/16

[Signature]
18/10/16

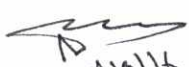
PTO

17/27

Revised Teaching Scheme according to decision taken in the HOD's meeting with Dean (A) on 17.10.2016

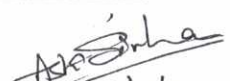
3	CHT-721	Industrial Pollution Control	3	0	0	3	3
4	CHT-722	Chemical Plant Utilities and Safety	3	0	0	3	3
5	CHT-723	Elective III	3	0	0	3	3
6	CHP-722	Chemical Plant Utilities and Safety lab	0	0	3	3	1
7	CHP-723	Software applications in Chemical Engineering	0	0	3	3	1
8	CHP-730	Project	0	0	8	8	4
		Total	14	0	14	28	20
		Grand Total	126	23	86	235	196
			Theory	Tutorial	Practical	Hours	Credits
		Total Basic Sciences	19	5	8	32	28
		Total Humanities	9	2	2	13	12
		Total Other Engineering	13	3	16	32	24
		Total Open Electives	9	0	0	9	9
		Total Core Subject	71	13	48	132	102
		Total Mandatory courses	5	0	0	5	5
		Projects	0	0	12	12	6
		Summer training and Industrial Training					10
		Total	126	23	86	235	196

MR 


18/10/16


18/10/16


18/10/16


18/10/16





GFT-Degree in Food Technology

Group-A

Semester-I Group-A (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AMT-411	Engineering Mathematics	3	1	0	4	4
2	PHT-411	Applied Physics	3	1	0	4	4
3	HUT-411	English communication and soft skills	3	0	0	3	3
4	EET-411	Elements of Electrical Engineering	3	1	0	4	4
5	MET-411	Elements of Mechanical Engineering	3	1	0	4	4
6	PHP-411	Applied Physics	0	0	2	2	1
7	HUP-411	English Communication & Soft Skills	0	0	2	2	1
8	EEP-411	Elements of Electrical Engineering	0	0	2	2	1
9	MEP-411	Elements of Mechanical Engineering	0	0	2	2	1
Total			15	5	8	27	23

Semester-II Group-A (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	CYT-421	Applied Chemistry	3	1	0	4	4
2	HUT-422	Engineering Economics and Entrepreneurship	3	1	0	4	4
3	CST-421	Elements of Computer Programming	2	0	0	2	2
4	ECT-421	Elements of Electronics Engineering	3	1	0	4	4
5	MET-422 Or	Workshop Technology & Practice-I	2	0	0	2	2
6	CYP-421	Applied Chemistry	0	0	2	2	1
7	CSP-421	Elements of Computer Programming	0	0	2	2	1
8	ECP-421	Elements of Electronics Engineering	0	0	2	2	1
9	MEP-423 Or	Engineering Drawing	0	0	4	4	2
10	WSP-422 Or	Workshop Technology & Practice-I	0	0	4	4	2
Total			13	2	14	30	23

Semester-IIIA (UG:Practical Training)

	TPS-501*^	Two weeks Practical Training during summer vacations				80	2 (S/US)
--	-----------	--	--	--	--	----	----------

Semester-III Group-A (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AMT-511	Higher Engg Mathematics	4	0	0	4	4
3	FTT-511	Food Chemistry	3	0	0	3	3
4	FTP-511	Food Chemistry Lab	0	0	2	2	1
5	FTT-512	Food Microbiology	3	0	0	3	3
6	FTP-512	Food Microbiology Lab	0	0	2	2	1
7	FTT-513	Heat and Mass Transfer	3	1	0	4	4
8	FTP-513	Heat and Mass Transfer Lab	0	0	2	2	1
9	FTT-514	Unit Operations	3	0	0	3	3
10	FTP-514	Unit Operations Lab	0	0	2	2	1
Total			16	1	8	25	21

Semester-IV Group-A (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	FTT-521	Food Biochemistry and Nutrition	3	0	0	3	3
2	FTP-521	Food Biochemistry and Nutrition Lab	0	0	2	2	1
3	FTT-522	Food Engineering	3	1	0	4	4
4	FTP-522	Food Engineering Lab	0	0	2	2	1
5	FTT-523	Dairy Engineering	3	1	0	4	4



25/10/16

25.10.2016

P.T.O.

25/10/16

25/10/16

19/27

6	FTP-523	Dairy Engineering Lab	0	0	2	2	1
7	FTT-524	Fluid Flow Operations and Rheology	3	0	0	3	3
8	FTP-524	Fluid Flow Operations and Rheology Lab	0	0	2	2	1
9	FTT-525	Technology of Cereal, Pulses and Oilseeds Processing	3	0	0	3	3
10	FTP-525	Technology of Cereal, Pulses and Oilseeds Processing Lab	0	0	2	2	1
Total			15	2	10	27	22

Semester-V Group-A (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AMT-611	Numerical Analysis	3	1	0	4	4
2	AMP-611	Numerical Analysis	0	0	2	2	1
3	FTT-611	Food Storage Engineering	3	1	0	4	4
4	FTP-611	Food Storage Engineering Lab	0	0	2	2	1
5	FTT-612	Packaging Technology	3	0	0	3	3
6	FTP-612	Packaging Technology Lab	0	0	2	2	1
7	FTT-613	Technology of Milk and Milk Products	3	0	0	3	3
8	FTP-613	Technology of Milk and Milk Products Lab	0	0	2	2	1
9	FTT-614	Food Laws and Regulations	3	0	0	3	3
10	FTT-61*	Elective-I	3	0	0	3	3
11	FTP-61*	Elective-I Lab	0	0	2	2	1
Total			18	2	10	30	25

Semester-VI Group-A (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	PHT-621	Physics of Materials	3	1	0	4	4
2	PHP-621	Physics of Materials	0	0	2	2	1
3	**O-62*	Open Elective -I	3	0	0	3	3
4	FTT-621	Technology of Animal Products	3	0	0	3	3
5	FTP-621	Technology of Animal Products Lab	0	0	2	2	1
6	FTT-622	Food Analysis and Quality Control	3	0	0	3	3
7	FTP-622	Food Analysis and Quality Control Lab	0	0	2	2	1
8	FTT-623	Technology of Fruits and Vegetable Products	3	0	0	3	3
9	FTP-623	Technology of Fruits and Vegetable Products Lab	0	0	2	2	1
10	FTT-62*	Elective - II	4	0	0	4	4
11	FTP-62*	Elective - II Lab	0	0	2	2	1
Total			19	1	10	30	25

Semester- VIIA (UG:Industrial Training)

	TPS-701*^	Industrial Training during summer vacations (6 weeks)				200	8 (S/US)
--	-----------	--	--	--	--	-----	----------

Semester-VII Group-A (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	CHM-711	Environmental Studies	3	0	0	3	3
2	HUT-711	Principles of Management	3	1	0	4	4
3	**O-71*	Open Elective -II	3	0	0	3	3
4	FTT-711	Technology of Fats and Oils	3	0	0	3	3
5	FTP-711	Technology of Fats and Oils Lab	0	0	2	2	1
6	FTT-712	Food Processing Plant Layout & Design	3	1	0	4	4



25/10/16

25.10.2016

PTO 25/10/16

25/10/16

20/27

7	FTT-71*	Elective-III	3	0	0	3	3
8	FTP-71*	Elective-III Lab	0	0	4	4	2
9	FTP-715	Seminar/Self-study	0	0	4	4	2
Total			18	2	10	30	25

Semester-VIII Group-A (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	HUM-721	Human Values and Professional Ethics	2	0	0	2	2
2	**O-72*	Open Elective -III	3	0	0	3	3
3	FTT-721	Food Biotechnology	3	0	0	3	3
4	FTP-721	Food Biotechnology Lab	0	0	2	2	1
5	FTT-722	Innovative Techniques in Food Processing	3	0	0	3	3
6	FTT-72*	Elective-IV	3	0	0	3	3
7	FTP-72*	Elective-IV Lab	0	0	2	2	1
8	FTP-725	Project	0	0	12	12	6
Total			14	0	16	30	22

*^ The credit will not be considered for CGPA calculation

	Theory	Tutorial	Practical	Hrs.	Credits
Total Basic Sciences	19	5	8	32	28
Total Humanities	9	2	2	13	12
Total Other Engineering	13	3	16	32	24
Total Open Electives	9	0	0	9	9
Total Core Subject	73	5	48	126	102
Total Mandatory Courses	5	0	0	5	5
Projects	0	0	12	12	6
Summer Training and Industrial Training					10
Total	128	16	84	228	196

Elective I	
FTT-615	Technology of Bakery and Confectionery Products
FTT-616	Spices Technology
	Elective I (Lab)
FTP-615	Technology of Bakery and Confectionery Products Lab
FTP-616	Spices Technology Lab
Elective II	
FTT-624	Technology of Beverages
FTT-625	Post Harvest Engineering
	Elective II (Lab)
FTP-624	Technology of Beverages Lab
FTP-625	Post Harvest Engineering Lab
Elective III	
FTT-713	Biochemical Engineering
FTT-714	Industrial Microbiology
	Elective III (Lab)
FTP-713	Biochemical Engineering Lab
FTP-714	Industrial Microbiology Lab
Elective IV	
FTT-723	Health and Functional Foods
FTT-724	Food Additives and Ingredients
	Elective IV (Lab)



25/7/16

25.7.2016

P.T.O.

25/10/16

25/10/16

21/27

FTP-723	Health and Functional Foods Lab
FTP-724	Food Additives and Ingredients Lab

	Open Elective I
FTO-621	Separation Technology
FTO-622	Statistical Quality Control
FTO-623	Food Process Engineering
	Open Elective II
FTO-711	Membrane Technology
FTO-712	Nano Technology
FTO-713	Flavour Technology
	Open Elective III
FTO-721	Numerical Computations in Food Processing
FTO-722	Instrumental Techniques in Foods
FTO-723	Drying Technology


 [Signature] 25-10-16 Lab. 25-10-2016 [Signature] 25/10/16 [Signature] 25/10/16



GWT - Degree in Mechanical Engineering (Welding Technology)							
Group-A							
Semester-I Group-A (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AMT-411	Engineering Mathematics	3	1	0	4	4
2	PHT-411	Applied Physics	3	1	0	4	4
3	HUT-411	English Communication & Soft Skill	3	0	0	3	3
4	EET-411	Elements of Electrical Engineering	3	1	0	4	4
5	MET-411	Elements of Mechanical Engg.	3	1	0	4	4
6	PHP-411	Applied Physics	0	0	2	2	1
7	HUP-411	English Communication & Soft Skill	0	0	2	2	1
8	EEP-411	Elements of Electrical Engineering	0	0	2	2	1
9	MEP-411	Elements of Mechanical Engg.	0	0	2	2	1
			15	4	8	27	23
Semester-II Group-A (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	CYT-421	Applied Chemistry	3	1	0	4	4
2	HUT-422	Engineering Economics and Entrep	3	1	0	4	4
3	CST-421	Elements of Computer Programmin	2	0	0	2	2
4	ECT-421	Elements of Electronics Engineerin	3	1	0	4	4
5	MET-422	Workshop Technology & Practice-I	2	0	0	2	2
6	CYP-421	Applied Chemistry	0	0	2	2	1
7	CSP-421	Elements of Computer Programmin	0	0	2	2	1
8	ECP-421	Elements of Electronics Engineerin	0	0	2	2	1
9	MEP-423	Engineering Drawing	0	0	4	4	2
10	WSP-422	Workshop Technology & Practice-I	0	0	4	4	2
			13	3	14	30	23
Semester-IIIA (UG:Practical Training)							
	TPS-501*^	Two weeks Practical Training during summer vacations				80	2 (S/US)
Semester-III Group-A (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AMT-511	Higher Engg Mathematics	3	1	0	4	4
2	MET-511	Engineering Mechanics	3	1	0	4	4
3	MET-512	Basic Engineering Thermodynamik	3	0	0	3	3
4	MET-513	Manufacturing Processes-I	3	0	0	3	3
5	MET-516	Fluid Mechanics & Machinery	3	1	0	4	4
6	MEP-511	Engineering Mechanics Lab	0	0	2	2	1
7	MEP-512	Basic Engineering Thermodynamik	0	0	2	2	1
8	MEP-516	Fluid Mechanics & Machinery Lab	0	0	2	2	1
9	MEP-515	Machine drawing Lab	0	0	4	4	2
		Total	15	3	10	28	23
Semester-IV Group-A (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	MET-521	Physical Metallurgy and Heat Treat	3	0	0	3	3
2	MET-526	Conventional Welding Processes	3	0	0	3	3
3	MET-523	Strength of Materials	3	1	0	4	4

K 25/10/2016



PTO

4	MET-527	Safety in Welding	3	0	0	3	3
5	MET-525	Kinematics of Machines	3	1	0	4	4
6	MEP-521	Physical Metallurgy and Heat Treat	0	0	2	2	1
7	MEP-526	Conventional Welding Processes La	0	0	6	6	3
8	MEP-523	Strength of Materials Lab	0	0	2	2	1
9	MEP-525	Kinematics of Machines Lab	0	0	2	2	1
		Total	15	2	12	29	23
Semester-V Group-A (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AMT-611	Numerical Analysis	3	1	0	4	4
2	AMP-611	Numerical Analysis	0	0	2	2	1
3	MET-611	Dynamics of Machines	3	1	0	4	4
4	MET-612	Elective -I	3	0	0	3	3
5	MET-613	Heat and Mass Transfer	3	1	0	4	4
7	MET-616	Advanced Welding Process	3	0	0	3	3
8	MEP-611	Dynamics of Machines Lab	0	0	2	2	1
9	MEP-613	Heat and Mass Transfer Lab	0	0	2	2	1
10	MEP-616	Advanced Welding Process Lab	0	0	4	4	2
		Total	15	3	10	28	23
Semester-VI Group-A (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	**O-62*	Respective Elective Subject	3	0	0	3	3
2	PHT-621	Physics of Matetials	3	1	0	4	4
3	PHP-621	Physics of Matetials	0	0	2	2	1
4	MET-621	CAD/CAM	3	0	0	3	3
5	MET-625	Welding Metallurgy	3	0	0	3	3
6	MET-623	Work Study & Ergonomics	3	0	0	3	3
7	MET-624	Mechanical Design-I	3	1	0	4	4
8	MET-625	Metal Cutting and forming	2	0	0	2	2
9	MEP-621	CAD/CAM LaB	0	0	2	2	1
10	MEP-625	Welding Metallurgy Lab	0	0	2	2	1
11	MEP-623	Work Study & Ergonomics Lab	0	0	2	2	1
		Total	20	2	8	30	26
Semester- VIIA (UG:Industrial Training)							
	TPS-701*^	Industrial Training during summer vacations (6 weeks)				200	8 (S/US)
Semester-VII Group-A (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	CHM-711	Environmental Studies	3	0	0	3	3
2	HUT-711	Principles of Management	3	1	0	4	4
3	**O-71*	Respective Elective Subject	3	0	0	3	3
4	MET-711	Metrology and Mechanical Measur	3	0	0	3	3
5	MET-715	Welding codes and standards	3	0	0	3	3
6	MET-716	Inspection and testing of weldmen	3	0	0	3	3
7	MEP-717	Project (Minor Project)	0	0	4	4	2
8	MEP-711	Metrology and Mechanical Measur	0	0	2	2	1
9	MEP-716	Inspection and testing of weldmen	0	0	2	2	1

K
25/10/2016



PTO

24/27

		Total	18	1	8	27	23
Semester-VIII Group-A (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	HUM-721	Human Values and Professional Eth	2	0	0	2	2
2	**O-72*	Open Elective-III	3	0	0	3	3
3	MET-722	Operations Research	3	1	0	4	4
4	MET-723	Elective-II	3	0	0	3	3
5	MET-615	Automobile Engineering	3	0	0	3	3
6	MEP-725	Project (Major Project)	0	0	8	8	4
7	MEP-726	Seminar	0	0	4	4	2
8	MEP-615	Automobile Engineering Lab	0	0	2	2	1
		Total	14	1	12	29	22
*^ The credit will not be considered for CGPA calculation							

	Theory	Tutorial	Practical	Hrs.	Credits
Total Basic Sciences					
Total Humanities					
Total Other Engineering					
Total Open Electives					
Total Core Subject					
Total Mandatory Courses					
Projects					
Summer Training and Industrial Training					
Total	125	19	82	228	186

MET-612	Elective 1
C	Quality, Reliability and maintainability
D	Weldability of Engineering Materials
E	Estimation and costing

MET 723	Elective 2
B	Smart Manufacturing
D	Arc Physics
E	Design of weldment

	Open Elective
MEO-611	Concurrent engineering
MEO-612	System Dynamics and Control
MEO-613	Power Plant engineering
MEO-711	Properties and selection of engineering materials
MEO-712	Robotics
MEO-713	Non Conventional energy sources
MEO-721	Finite element methods
MEO-722	Design of Experiment
MEO-723	Welding Processes and Design

K
25/10/2016



~~27/10~~

25/27

GME - Degree in Mechanical Engineering (Manufacturing Engineering)							
Group-A							
Semester-I Group-A (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AMT-411	Engineering Mathematics	3	1	0	4	4
2	PHT-411	Applied Physics	3	1	0	4	4
3	HUT-411	English Communication & Soft Skills	3	0	0	3	3
4	EET-411	Elements of Electrical Engineering	3	1	0	4	4
5	MET-411	Elements of Mechanical Engineering	3	1	0	4	4
6	PHP-411	Applied Physics	0	0	2	2	1
7	HUP-411	English Communication & Soft Skills	0	0	2	2	1
8	EET-411	Elements of Electrical Engineering	0	0	2	2	1
9	MEP-411	Elements of Mechanical Engineering	0	0	2	2	1
Total			15	4	8	27	23

Semester-II Group-A (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	CYT-421	Applied Chemistry	3	1	0	4	4
2	HUT-422	Engineering Economics and Entrepreneurs	3	1	0	4	4
3	CST-421	Elements of Computer Programming	2	0	0	2	2
4	ECT-421	Elements of Electronics Engineering	3	1	0	4	4
5	MET-422	Workshop Technology & Practice-I	2	0	0	2	2
6	CYP-421	Applied Chemistry	0	0	2	2	1
7	CSP-421	Elements of Computer Programming	0	0	2	2	1
8	ECP-421	Elements of Electronics Engineering	0	0	2	2	1
9	MEP-423	Engineering Drawing	0	0	4	4	2
10	WSP-422	Workshop Technology & Practice-I	0	0	4	4	2
Total			13	3	14	30	23

Semester-IIIA (UG:Practical Training)

TPS-501*^	Two weeks Practical Training during summer vacations	80	2 (S/US)
-----------	--	----	----------

Semester-III Group-A (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AMT-511	Higher Engg Mathematics	3	1	0	4	4
2	MET-511	Engineering Mechanics	3	0	0	3	3
3	MET-512	Basic Engineering Thermodynamics	3	0	0	3	3
4	MET-513	Manufacturing Processes-I	3	0	0	3	3
5	MET-514	Fluid Mechanics	3	0	0	3	3
6	MET-515	Industrial Engineering & Management	3	0	0	3	3
7	MEP-511	Engineering Mechanics Lab	0	0	2	2	1
8	MEP-512	Basic Engineering Thermodynamics lab	0	0	2	2	1
9	MEP-514	Fluid Mechanics Lab	0	0	2	2	1
10	MEP-515	Machine drawing Lab	0	0	4	4	2
Total			18	1	10	29	24

Semester-IV Group-A (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	MET-521	Physical Metallurgy and Heat Treatment	3	0	0	3	3
2	MET-522	Fluid Machinery	3	0	0	3	3



25/10/2016

PTD

26/27

3	MET-523	Strength of Materials	3	1	0	4	4
4	MET-524	Manufacturing process-II	3	0	0	3	3
5	MET-525	Kinematics of Machines	3	1	0	4	4
6	MEP-521	Physical Metallurgy and Heat Treatment Lab	0	0	2	2	1
7	MEP-522	Fluid Machinery Lab	0	0	2	2	1
8	MEP-523	Strength of Materials Lab	0	0	2	2	1
9	MEP-524	Manufacturing process-II Lab	0	0	2	2	1
10	MEP-525	Kinematics of Machines Lab	0	0	2	2	1
Total			15	2	10	27	22

Semester-V Group-A (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AMT-611	Numerical Analysis	3	1	0	4	4
2	AMP-611	Numerical Analysis	0	0	2	2	1
3	MET-611	Dynamics of Machines	3	1	0	4	4
4	MET-612	Elective -I	3	0	0	3	3
5	MET-613	Heat and Mass Transfer	3	1	0	4	4
6	MET-614	Advanced strength of material	3	1	0	4	4
8	MEP-611	Dynamics of Machines Lab	0	0	2	2	1
9	MEP-613	Heat and Mass Transfer Lab	0	0	2	2	1
Total			15	4	6	25	23

Semester-VI Group-A (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	**O-62*	Open Elective-I	3	0	0	3	3
2	PHT-621	Physics of Materials	3	1	0	4	4
3	PHP-621	Physics of Materials	0	0	2	2	1
4	MET-621	CAD/CAM	3	0	0	3	3
5	MET-622	Refrigeration & Air Conditioning	3	0	0	3	3
6	MET-623	Work Study & Ergonomics	3	0	0	3	3
7	MET-624	Mechanical Design-I	3	1	0	4	4
8	MET-625	Metal Cutting and forming	2	0	0	2	2
9	MEP-621	CAD/CAM Lab	0	0	2	2	1
10	MEP-622	Refrigeration & Air Conditioning Lab	0	0	2	2	1
11	MEP-623	Work Study & Ergonomics Lab	0	0	2	2	1
Total			20	2	8	30	26

Semester- VIIA (UG:Industrial Training)

	TPS-701*^	Industrial Training during summer vacations (6 weeks)				200	8 (S/US)
--	-----------	--	--	--	--	-----	----------

Semester-VII Group-A (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	CHM-711	Environmental Studies	3	0	0	3	3
2	HUT-711	Principles of Management	3	1	0	4	4
3	**O-71*	Open Elective-II	3	0	0	3	3
4	MET-711	Metrology and Mechanical Measurements	3	0	0	3	3
5	MET-712	Industrial Automation and Mechatronics	3	0	0	3	3
6	MET-713	Mechanical Design-II	3	1	0	4	4
7	MEP-725	Project (Minor Project)	0	0	4	4	2
8	MEP-711	Metrology and Mechanical Measurements	0	0	2	2	1



25/10/2016

PTO

9	MEP-712	Industrial Automation and Mechatronics Lab	0	0	2	2	1
		Total	18	2	8	28	24
Semester-VIII Group-A (UG)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	HUM-721	Human Values and Professional Ethics	2	0	0	2	2
2	**O-72*	Open Elective-III	3	0	0	3	3
3	MET-722	Operations Research	3	1	0	4	4
4	MET-723	Elective-II	3	0	0	3	3
5	MET-615	Automobile Engineering	3	0	0	3	3
6	MEP-725	Project (Major Project)	0	0	8	8	4
7	MEP-726	Seminar	0	0	4	4	2
8	MEP-615	Automobile Engineering Lab	0	0	2	2	1
		Total	14	1	12	27	21

*^ The credit will not be considered for CGPA calculation

	Theory	Tutorial	Practical	Hrs.	Credits
Total Basic Sciences					
Total Humanities					
Total Other Engineering					
Total Open Electives					
Total Core Subject					
Total Mandatory Courses					
Projects					
Summer Training and Industrial Training					
Total	128	19	76	223	186

MET-612	Elective 1
A	Advanced Manufacturing Systems
B	Tool Design
C	Quality, Reliability and maintainability

MET 723	Elective 2
A	Sustainable Design and Manufacturing
B	Smart Manufacturing
C	Industrial Maintenance

	Open Elective
MEO-611	Concurrent engineering
MEO-612	System Dynamics and Control
MEO-613	Power Plant engineering
MEO-711	Properties and selection of engineering materials
MEO-712	Robotics
MEO-713	Non Conventional energy sources
MEO-721	Finite element methods
MEO-722	Design of Experiment
MEO-723	Welding Processes and Design



K✓
28/10/2016