

**UTTARAKHAND TECHNICAL UNIVERSITY-
DEHRADUN**

**The following paper I.D has been assigned to the New subject
Interdused in B. Tech- I Year (I Sem) and B. Tech- II Year
(III Sem) for session 2009-2010**

B. Tech- I Year (I Sem)

S.No.	Paper I.D	Sub Code	Subject
1	3333	TEC-151	Basic Electronics Lab

B. Tech- II Year (III Sem)

Branch : Mechanical Engg.

S.No.	Paper I.D	Sub Code	Subject
1	4230	PCE -351	Fluid Machines Lab

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Branch: Computer Sc. Engg.

Theory Subject

S.No.	Paper I.D	Sub. Code	Subject Name
1	1080	TCS-701	Introduction to Web Technology
2	1081	TCS-702	Advanced Computer Architecture
Elective-I			
3	1082	CS-011	Digital Image Processing
4	1083	CS-012	Network Programming & Administration
5	1084	CS-013	Real Time System
6	1085	CS-014	Wireless Networks
Elective-II			
7	1086	CS-021	Cryptography & Network Security
8	1087	CS022	Net Technologies & Visual Programming
9	1089	CS-023	System Software and Administration
10	1090	CS-024	Soft Computing

Practical Subject

S.No.	Paper I.D	Sub. Code	Subject Name
1	1091	PIT-751	Web Technology Lab
2	1092	PIT-752	Advanced Computer Architecture Lab
3	1093	PIT-753	Colloquium & industrial Report
4	1094	PIT-754	Project

UTTARAKHAND TECHNICAL UNIVERSITY- DEHRADUN

Branch: Information Technology

Theory Subject

S.No.	Paper I.D	Sub. Code	Subject Name
1	3011	TIT-701	Cryptography & Network Security
2	3012	TIT-702	Artificial Intelligence
Elective-I			
3	3013	IT-011	Service Oriented Computing
4	3014	IT-012	Software Architecture
5	3015	IT-013	Client Server Based It Solutions
6	3016	IT-014/CS-034	Multimedia Communication & System Design
Elective-II			
7	3017	IT-021/CS-011	Digital Image Processing
8	3018	IT-022/CS-012	Network Programming & Administration
9	3019	IT-023	Bio-Informatics
10	3020	IT-024/CS-14	Wireless Networks

Practical Subject

S.No.	Paper I.D	Sub. Code	Subject Name
1	3021	PIT-751	Cryptography & Network Security Lab
2	3022	PIT-752	Artificial Intelligence Lab
3	3023	PIT-753	Colloquium & industrial Report
4	3024	PIT-754	Project

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Branch: Electronics & Comm. Engg

Theory Subject

S.No.	Paper I.D	Sub. Code	Subject Name
1	2081	TEC-701	Optical Fiber Communication
2	2082	TEC-702	Electronics Switching
Elective-I			
3	2083	TEC-011	Digital System Design Using VHDL
4	2084	TIC-011	Optoelectronics
5	2085	TEC-013	Artificial Neural Networks
6	2086	TEC-014	Speech Processing
Elective-II			
7	2087	TEC-021	Principles of Secure Communication
8	2088	TEC-022	Spread Spectrum Systems
9	2089	TEC-023	Fundamentals of Radar Navigation
10	2090	TEC-024	Satellite Communication

Practical Subject

S.No.	Paper I.D	Sub. Code	Subject Name
1	2091	PEC-751	OFC & MATLAB
2	2092	PEC-752	Seminar
3	2093	PEC-753	Industrial Interaction
4	2094	PEC-754	Project

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Branch: Electrical & Electronics Engg.

Theory Subject

S.No.	Paper I.D	Sub. Code	Subject Name
1	8011	TEE-704	Switchgear & Protection
2	8012	TEE-702	Electrical Drives
3	8013	TEC-704	Digital Signal Processing
Elective-I			
4	8014	TEE-011	Utilization of Electrical Energy and Traction
5	8015	TEE-012	SCADA & Energy Management System
6	8016	TEE-013	Data Base Management System, Data Mining & Warehousing
7	8017	TEE-014	Digital Control System
8	8018	TEE-015	Neural Network and Fuzzy Logic

Practical Subject

S.No.	Paper I.D	Sub. Code	Subject Name
1	8019	PEC-755	Digital Signal Processing Lab
2	8020	PEE-751	Power System Lab
3	8021	PEE-753	Industrial Training Seminar
4	8022	PEE-754	Project

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Branch: Electrical Engg. (05)

Theory Subject

S.No.	Paper I.D	Sub. Code	Subject Name
1	5080	TEE-701	Power System Operation and Control
2	5081	TEE-702	Electric Drives
3	5082	TEE-703	Neural Network and Fuzzy Logic
Elective-I			
4	5083	TEE-011	Utilization of Electrical Energy and Traction
5	5084	TEE-012	SCADA & Energy Management System
6	5085	TEE-013	Data Base Management System, Data Mining & Warehousing
7	5086	TEE-014	Digital Control System

Practical Subject

S.No.	Paper I.D	Sub. Code	Subject Name
1	5087	PEE-751	Power System Lab
2	5088	PEE-752	Electric Drives Lab
3	5089	PEE-753	Industrial Training Seminar
4	5090	PEE-754	Project

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Branch: Applied Electronics & Instrumentation Engg.

Branch: Instrumentation & Control

Theory Subject

S.No.	Paper I.D	Sub. Code	Subject Name
1	9080	TIC -701	Biomedical Instrumentation
2	9081	TIC -702	Digital Control Engineering
Elective-I			
3	9082	TEC-011	Digital System Design Using VHDL
4	9083	TIC -011	Optoelectronics
5	9084	TIC -012	Control System Components
6	9085	TIC -013	Computerized Process Control Robotics
Elective-II			
7	9086	TIC-021	Robotics & Mechatronics
8	9087	TIC -022	Optical Instrumentation
9	9088	TEC-023	Filter
10	9089	TEC-024	Satellite

Practical Subject

S.No.	Paper I.D	Sub. Code	Subject Name
1	9090	PIC -751	Instrumentation Lab
2	9091	PIC -752	Seminar
3	9092	PIC -753	Industrial Interaction
4	9093	PIC -754	Project

Uttarakhand Technical University, Dehradun

Branch: Mechanical Engineering

Theory Subject

S.No.	Paper I.D	Sub. Code	Subject Name
1	4011	TME-701	CAD/CAM
2	4012	TME-702	Experimental Stress Analysis
Elective-I			
3	4013	TME-011	Computer Integrated Manufacturing
4	4014	TME-012	Mechanical Vibrations
5	4015	TME-013	Management Information System
6	4016	TME-014	Non Conventional Energy Resources
7	4017	TME-015	Advanced Engineering Material
Elective-II			
8	4018	TME-021	Optimization Techniques in Engineering
9	4019	TME-022	Advanced Welding Processes
10	4020	TME-023	Six Sigma Methods & application
11	4021	TME-024	Non Destructive Testing
12	4022	TME-025	Hydraulic & Pneumatic Systems

Practical Subject

S No.	Paper I.D	Sub. Code	Subject Name
1	4023	PME-751	CAD/CAM
2	4024	PME-752	Colloquium & Industrial Training Report
3	4025	PME-753	Project
4	4026	PME-754	Seminar

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Branch: Industrial Production Engineering

Branch: Production Engineering

Theory Subject

S.No.	Paper I.D	Sub. Code	Subject Name
1	6080	TIP -701	CAD/CAM
2	9081	TIP -702	Automobile Engineering
3	6082	TIP -703	Mechanical System Design
Elective-I			
4	6083	EIP -701	Advance Production Engineering
5	6084	EIP -702	Industrial Automation and Robotics
6	6085	EIP -703	Engineering Economics and Industrial Design

Practical Subject

S No.	Paper I.D	Sub. Code	Subject Name
1	6086	PIP -701	CAD/CAM Lab
2	6087	PIP -751	Industrial Training Viva
3	6088	PIP -752	Project
4	6089	PIP -753	Seminar

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List of Open Electives

S N	Paper I.D	Sub. Code	Subject Name	Deptt
1	5091	TOE-01	Non Conventional Energy Resources	Electrical
2	5092	TOE-02	Reliability Engineering	Electrical
3	0081	TOE-03	Environment & Ecology	Civil
4	0082	TOE-04	Geographic Inf. System Technology & Its applications	Civil
5	9920	TOE-05	Entrepreneurship Development Programme	Humanities
6	9921	TOE-06	Ancient Indian Culture	Humanities
7	9922	TOE-07	Human Values	Humanities
8	4027	TOE-08	Quality System & Management	Mechanical
9	4028	TOE-09	Condition Monitoring & Diagnostics	Mechanical
10	4029	TOE-10	Value Engineering	Mechanical
11	4030	TOE-11	Nanotechnology	Mechanical
12	4031	TOE-12	Solar Energy	Mechanical
13	4034	TOE-13	Human Resource Management	Mechanical
14	4033	TOE-14	Advance Material Science	Mechanical
15	9094	TOE-15	Industrial Instrumentation	Instrumentation & Control
16	9095	TOE-16	Biomedical Engineering	Instrumentation & Control
17	2095	TOE-17	Fundamentals of Coding Theory	ECE
18	2096	TOE-18	Consumer Electronics	ECE
19	2097	TOE-19	Wireless & Mobile Comm.	ECE
20	2098	TOE-20	Human Computer Interaction	CSE
21	3025	TOE-21	IT in Business	IT
22	6090	TOE-22	Artificial Intelligence in Manufacturing	Manufacturing Tech.
23	9273	TOE-23	Health, Hospital and Equipment Management	Biomedical Engg.
24	9274	TOE-24	Introduction to Medical Physics	Biomedical Engg.
25	8023	TOE-25	Modern Control System	Electrical
26	8024	TOE-26	Mechatronics	Electrical
27	8025	TOE-27	SCADA & Energy Management System	Electrical

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B. PHARMA

IV Year (VII Sem)

Theory Subject

S.No.	Paper I.D	Sub. Code	Subject Name
1	5046	PHR-701	Biopharmaceutics & Pharmacokinetics
2	5047	PHR-702	Medicinal Chemistry-II
3	5048	PHR-703	Pharmacology-III
4	5049	PHR-704	Pharmacognosy-V
5	5050	PHR-705	Pharmaceutical Management

Practical Subject

S.No.	Paper I.D	Sub. Code	Subject Name
1	5125	PHR-751	Biopharmaceutics & Pharmacokinetics Lab
2	5126	PHR-752	Pharmaceutical Chemistry-VII Lab
3	5127	PHR-753	Pharmacology-III Lab
4	5128	PHR-754	Pharmacognosy-V Lab

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CIVIL ENGINEERING

III Year (V Sem)

Theory Subject

S.No.	Paper I.D	Sub. Code	Subject Name
1	4074	THM-501	Industrial Economic & Principle of Management
2	5071	TCE-501	Structural Analysis -II
3	5072	TCE-502	Concrete Structure-I
4	5073	TCE-503	Transportation Engineering-I
5	5074	TCE-504	Geotechnical Engineering

Practical Subject

S.No.	Paper I.D	Sub. Code	Subject Name
1	0074	PCE-551	Structural Analysis Lab
2	0075	PCE-552	Concrete Lab
3	0076	PCE-553	Transportation Lab