DEPT : COMPUTER SCIENCE AND ENGINEERING

SHELF NO.	SUBJECT SUB DIVISIONS
A1 (004-004.11)	*Introduction to computers, Fundamentals of computer, Automata theory, Theory of computation,*
A2 (004.16)	*Microcontrollers, Microprocessors*
A3 (004.16)	*8051 Microcontroller, Microprocessors & interfacing, 8085, 8088 & 8086*
A4 (004.16)	*Intel microprocessors, PIC microcontroller, Embedded systems, 8051*
A5 (004.16-004.22)	*8051 Microprocessors, Computer organization, Embedded systems, Computer architecture, Embedded systems,*
A6 (004.22)	*Computer organization, Computer Architecture. Embedded systems,*
A7 (004.22)	*Computer organization, Computer Architecture, Embedded systems*
A8 (004.22-004.25)	*Computer architecture, Computer organization, Digital logic and computer design, Digital computer fundamentals,*

DEPT : COMPUTER SCIENCE AND ENGINEERING

B1 **(004.33-004.62)**	*Real time computer control, Parallel computing, Distributed systems, Motherboard, TCP/IP, Mobile Computing, Troubleshooting, maintaining, repairing PCs,*
B2 **(004.62-004.65)**	*TCP/IP, WAP-The Wireless Application Protocol, Computer networks*
B3 **(004.65)**	*Computer networks, Data Networks, High speed networks and internets*
B4 **(004.65-005)**	*Computer networks, Local area networks, Internet and world wide web, E-Commerce, Pattern oriented software architecture, S/w Engg,*
B5 **(005-005.1028)**	*S/w Engg, Applied s/w architecture, Computer algorithms*
B6 **(005.104-005.13)**	*Design patterns, Software Project Management, Object oriented modeling & Design, ARM,CMMI Programming Languages, Programming world wide web,*
B7 **(005.13B-005.13C)**	*Programming in basic, Programming in C ANCI C, Let us C, Test your C skills*
B8 **(005.13C-005.13J)**	*Programming in C, Programming in C++, Let us C++, Object oriented programming in C++,Java*

DEPT : COMPUTER SCIENCE AND ENGINEERING

B9 (005.13J- 005-43)	*Java, IBM, Assembly language, Visual basic, Python, Embedded software primer, System software, System programming, Software Testing. Operating Systems*
B10 (005.43)	*Operating systems*
B11 (005.43)	*Operating systems*
B12 (005.43L-005.453C)	*Design of Unix operating systems, Linux, Distributed operating systems, Compilers*

C1 (005.71)	*Data communications*
C2 (005.71-005.712X)	*Data communications, PHP, ASP.Net, Web design, HTML,*
C3 (005.722- 005.73C)	*Error control coding, Data structures, Data structures C,*
C4 (005.73C-005.74)	*Data structures C, C++, Data structures and algorithms in Java*
C5 (005.74)	*Database systems, Database management*
C6 (005.741--005.746)	*Data mining, Modern information retrieval, Data compression,*
C7 (005.75-005.82)	*Oracle, MySQL, Security in computing, Applied cryptography, Network security essentials,*

DEPT : COMPUTER SCIENCE AND ENGINEERING

C8 **(005.82-006.3)**	*Cryptography, Grid Computing, Artificial intelligence,*
C9 **(006.3 - 006.32)**	*Artificial intelligence, LISP, Prolog, soft computing, Neural Networks,*
C10 **(006.32-006.4)**	*Neural networks, Speech & language processing, Pattern Classification, fuzzy logic, and genetic algorithms*
C11 **(006.6)**	*Computer graphics,*
C12 **(006.68-006.7822)**	*Photoshop, Multimedia, XML, Cloud computing*

DEPT : CIVIL ENGINEERING

M1 (624.0299)	Estimating, costing, Surveying and leveling,
M2 (624.0299-624.1)	Surveying, Surveying and leveling, Building design and civil engineering Drawing, Theory of structures
M3 (624.1-624.151)	Theory of structures, *Engineering geology, Geotechnical engineering*
M4 (624.15136)	*Soil mechanics, Soil mechanics and foundation engineering*
M5 (624.15136)	*Soil mechanics, Soil mechanics and foundation engineering*
M6 (624.17)	*Structural analysis*
M7 (624.17-624.1762)	*Structural analysis, Earthquake resistant design of structure*
M8 (624.1821)	*Design of steel structures*
M9 (624.1821-624.1834)	*Design of steel structures, Concrete technology*
M10 (624.1834-624.18341)	*Concrete technology, Reinforced concrete structure*

DEPT : CIVIL ENGINEERING

M11 (624.18341)	*Limit state design, Reinforced concrete design,*
M12 (624.2.625.8)	*Bridge, Highway Engg, Railway Engg. Pavement Design*
M13 (627)	*Engg Hydrology, Flow through open channels, Water resource engg,*
M14 (627.2- 627.52)	*Water resource engg, Hydrology, Harbour dock tunnel engg, Irrigation engineering, water power engg,*
M15 (628)	*Environmental engg, Environmental studies, Manual of tropical housing, sustainable engineering*
M16 (628)	*Manual of tropical housing, Environmental engg, Environmental studies, Water supply engg,*
M17 (628.1-629.04)	*Water supply and sanitary installations, Ground water, Waste water engineering, transportation engineering,*
M18 (629.04-629.2548)	*Airport engg, Automobile Engg, transportation engineering, Traffic and highway engineering, Automotive mechanics*
L13 (624)	**Basic civil engineering, Elements of civil**

	and mechanical engineering, Construction: Planning and management
L14 (624)	**Basic civil engineering, Construction: Planning and management**

DEPT : APPLIED SCIENCES AND HUMANITIES

D1 (510-510.2462)	Engg. mathematics
D2 (510.2462)	Engg. mathematics
D3 (510.2462)	Engg. mathematics
D4 (510.2462)	Engg. mathematics
D5 (510.2462-511)	Engg. Mathematics,Discrete mathematics
D6 (511)	Discrete mathematics
D7 (511.3-512)	Fuzzy logic, Graph Theory, Combinatorics, Algebra
D8 (512-515)	Algebra, Matrix, Functional Analysis, Mathematical Analysis,
D9 (515.15-515.35)	Calculus, Differential equations, Ordinary and partial differential equations
D10 (515.35- 515.9)	Ordinary and partial differential equations, Fourier transform, Real and complex analysis
D11 (515.9-519.2)	Mathematical methods, Applied mathematics, Probability
D12 (519.2-519.4)	Probability Models, Queuing theory, Optimization, Stochastic processes, Numerical methods,

DEPT : APPLIED SCIENCES AND HUMANITIES

D13 (519.4)	**Numerical methods, Numerical analysis, Computer based numerical and statistical techniques,**
D14 (519.40285-519.72)	**Computer oriented numerical methods, Matlab, Statistics, Linear programming**

E1 (530 - 530.2462)	**Physics, Quantum mechanics, Electromagnetism, Engg physics**
E2 (530.2462-530.41)	**Engg physics,**
E3 (530.41- 537)	**Solid state physics, Electricity and Magnetism, Electrodynamics, Optics,**
E4 (537.6-540.2462)	**Electrodynamics, Modern physics, Nuclear Physics, Engg chemistry, Advanced Chemistry**
E5 (540.2462)	**Engg chemistry,**
E6 (540.2462-540.76)	**Engg chemistry, Physical chemistry**
E7 (543-549)	**Analytical chemistry, Inorganic chemistry, Organic chemistry, quantitative chemical**

DEPT : APPLIED SCIENCES AND HUMANITIES

	Analysis, Crystallography, Mineralogy
E8 (604.2)	Engg graphics, Engg drawing
E9 (610.28)	Biomedical instrumentation

DEPT : ELECTRONICS & COMMUNICATION ENGINEERING

J1(621.381535)	Op Amps and linear integrated circuits
J2 (621.3815372-621.38154)	Switchgear Protection, electronic measurements & instrumentation, Electronic instrumentation, Analytical instruments
J3 (621.38154)	Electronic measurements & instrumentation,
J4 (621.38154)	Telemetry, Electronic instrumentation, Digital instrumentation, Transducers
J5 (621.382)	communication systems, Digital Communication,
J6 (621.382)	Electronic communications, Analog & Digital Communication, communication Systems,
J7 (621.382)	Electronic communications, Analog & Digital Communication, Communication systems
J8 (621.382)	Electronic communications, Analog & Digital Communication, Communication systems
J9 (621.382)	Electronic communications, Analog & Digital Communication

DEPT : ELECTRONICS & COMMUNICATION ENGINEERING

J10 (621.382-621.3821)	Electronic Communications, Digital Communications, High performance communication Network, Telecommunication switching systems and networks,
J11 (621.3821-621.3822)	Signals & systems, DSP
J12 (621.3822)	Signals & systems, DSP
J13 (621.3822)	Signals & systems, DSP
J14 (621.3822)	Signals & systems, DSP
J15 (621.3822)	Signals & systems, DSP

K1(621.3822)	Signals & systems, DSP
K2 (621.382201-621.38223)	Statistical digital signal processing and Modeling, Discrete time signal processing, Signals, systems and transforms
K3 (621.3824-621.3825)	Antennas, Satellite communications
K4 (621.3825-621.38275)	Satellite communications, Optical networks, Fiber optic communication

DEPT : ELECTRONICS & COMMUNICATION ENGINEERING

K5 (621.38275-621.38456)	**Fiber optic Communication, RF circuit Design, Wireless Digital Communication,**
K6 (621.38456)	**Mobile communication, Wireless Communication**
K7 (621.38456)	**Mobile communication, Wireless Communication, Mobile cellular telecommunications**
K8 (621.38456-621.3848)	**Mobile communication, Wireless Communication, Radar,**
K9 (621.388)	**Monochrome and colour television,**
K10 (621.388-621.39)	**Audio video and TV engineering, Digital logic design, VHDL**
K11 (621.39-621.395)	**VHDL, Digital Circuits, Digital System**
K12 (621.395)	**Digital System, VLSI, Digital integrated Circuits,**
K13 (621.395)	**Digital fundamentals, VLSI**
K14 (621.395)	**Logic Design Theory, Digital Design, Digital integrated Circuits,**

DEPT : ELECTRONICS & COMMUNICATION ENGINEERING

K15 (621.395)	CMOS, VLSI, Digital Principles & Design
K16 (621.395	CMOS, Digital Design, Digital Circuits

L1 (621.4)	Power plant engg,
L2 (621.4-621.402)491006	Power plant engg, Thermal engg
L3 (621.402-621.4021)	Thermal engg, Thermodynamics
L4 (621.4021-621.4022)	Thermodynamics, Heat & mass transfer
L5 (621.4022)	Heat & mass transfer,
L6 (621.4022-621.43)	Heat & mass transfer, Internal combustion Engines

DEPT : ELECTRONICS & COMMUNICATION ENGINEERING

L7 (621.43-621.46)	**Internal combustion Engines,Gas turbines Electric motor drives,**
L8 (621.56-621.59)	**Refrigeration and air conditioning, Fundamentals of cryogenic engineering**
L9 (621.8)	**Theory of machines,**
L10 (621.8-621.815)	**Theory of Machine Machine design ,**
L11 (621.815)	**Machine design**
L12 (621.815-621.833)	**Machine drawing, Mechanical engg design CNC machines, Mining technology**

I-1 (621.366-621.37)	*Lasers, Digital Image processing, Electrical measurement and measuring instruments, Remote sensing,*
I-2 (621.37-621.381)	*Electrical measurement and measuring Instruments, Applied electronics, Basic electronics*
I-3 (621.381)	*Basic electronics,*

DEPT : ELECTRONICS & COMMUNICATION ENGINEERING

I-4 (621.381042)	*Digital electronics, Basic electronics, Modern Digital Electronics,*
I-5 (621.381042-621.381045)	*Digital electronics, Optoelectronics,*
I-6 (621.381078 – 621.3813)	*Electronics Lab manual, Microwave engg,*
I-7 (621.3813- 621.38133)	*Microwave engg, Electronic devices & circuits, Solid state devices*
I-8 (621.38133)	*Electronic devices & circuits, Solid state devices*
I-9 (621.38133)	*Microwave Devices & Circuits, Electronic devices & circuits, Solid state devices*
I-11 (621.3815)	*Integrated electronics, Electronic circuits, Linear integrated circuits, Digital integrated electronics*
I-12 (621.3815)	*Microelectronic circuits, Application-specific integrated circuits, Linear integrated circuits,*
I-13 (621.3815)	*Linear integrated circuits, Basic electronics & linear circuits, Integrated circuits, Analog integrated circuits, Electronic circuits,*
I-14 621.3815-621.38152)	*CMOS, Science and engineering of*

DEPT : ELECTRONICS & COMMUNICATION ENGINEERING

	microelectronic fabrication, Semiconductor devices,
I-15 (621.38152–621.3815287)	*CMOS, Semiconductor devices, Thyristors,*
I-16 (621.38153-621.381534)	*Pulse, digital and switching waveforms, Engineering circuit analysis, Adaptive filter Theory, Pulse and digital circuits,*

DEPT : ELECTRICAL & ELECTRONICS ENGINEERING

SHELF NO.	*SUBJECT SUB-DIVISIONS*
G1(621.31)	**Basic electrical engg**
G2 (621.31)	**Electrical engg**
G3 (621.31)	**Electrical engg,**
G4 (621.31)	**Electrical engg**
G5 (621.31)	**Electrical engg**
G6 (621.31)	**Electrical engg**
G7 (621.31)	**Electrical engg**
G8 (621.310284 -621.31042)	**Experiments in basic electrical engineering, Electrical engineering materials, Electrical machines**
G9 (621.31042)	**Electrical machines**
G10 621.31042)	**Electrical machines**
G11 (621.31042- 621.31078)	**Electrical machines, Electrical engineering drawing, Laboratory courses in electrical engineering, Electrical workshop**
G12 (621.312 – 621.3124)	**Electric power generation, transmission and distribution, Electric energy systems**

DEPT : ELECTRICAL & ELECTRONICS ENGINEERING

H1 **(621.317)**	**Power electronics,**
H2 **(621.317)**	**Power electronics,**
H3 **(621.317)**	**Power electronics**
H4 **(621.319)**	**Network analysis,**
H5 **(621.319-621.3191)**	**Network analysis, Electrical power systems,**
H6 **(621.3191)**	**Electrical power systems**
H7 **(621.3191)**	**Power systems,**
H8 **(621.31913-621.3192)**	**High voltage engineering, Circuit theory,** **Networks and systems**
H9 **(621.3192)**	**Circuits and networks, Circuit & systems**
H10 **(621.3192-621.31921)**	**Circuits and networks, Network analysis,** **Electric circuits, Circuit analysis**
H11 **(621.31921)**	**Electric circuits, Circuit analysis**
H12 **(621.31924-621.33)**	**Electrical wiring, estimating & costing,** **Electrical installation estimating and costing** **Electric power transmission & distribution,**

DEPT : ELECTRICAL & ELECTRONICS ENGINEERING

	Electrical design
H13 (621.34)	*Electromagnetics,*
H14 (621.34)	*Electromagnetics,*
H15(621.34)	*Electromagnetic fields theory*

DEPT : MECHANICAL ENGINEERING

F1 **(620-620.0042)**	**Engg basics, Finite element analysis, Reliability engg, Design Data Hand Book, Engg Design**
F2 **(620.1)**	**Engg mechanics, Basic Mechanical Engg**
F3 **(620.1)**	**Engg mechanics, Basic Mechanical Engg**
F4 **(620.1)**	**Engg mechanics,**
F5 **(620.1)**	**Engg mechanics, Applied Mechanics**
F6 **(620.1-620.105)**	**Engg mechanics, Engg mechanics of solids, Vector mechanics, Classical mechanics,**
F7 **(620.105-620.106)**	**Advanced mechanics of Solids, Hydraulics and fluid mechanics ,**
F8 **(620.106)**	**Fluid mechanics**
F9 **(620.106)**	**Fluid mechanics**
F10 **(620.106-620.11)**	**Fluid mechanics, Gas dynamics, Compressible flow with aircraft and rocket Propulsion, Material science & Engg**
F11 **(620.11)**	**Engg materials, Material science and metallurgy**

DEPT : MECHANICAL ENGINEERING

F12 (620.112)	*Strength of materials*
F13 (620.112)	*Strength of materials*
F14 (620.112)	*Strength of materials*
F15 (620.3-621.0287)	*Mechanical Vibrations, Nanotechnology, Mechatronics, Mechanical Measurement & instrumentation*
F16 (621.0287-621.3)	*Mechanical & industrial measurement, Applied mechanics, Field theory, Mechanical measurement & instrumentation, Energy engineering and management , Steamtables, Electromagnetic waves,*

DEPT : APPLIED ELECTRONICS & INSTRUMENTATION

N1 (629.8)	Control systems
N2 (629.8)	Control systems
N3 (629.8-629.8)	Control systems,
N4 (629.8-629.801)	Control systems, Advanced control,
N5 (629.83-660.2815)	Instrumentation & process control, Linear control, Robotics, PC based instrumentation Programmable logic controllers, Digital control system, Discrete time control systems, Industrial robotics, Process control,
N6 (660.2815-669.92)	Process control, Chemical process control, Bioinformatics, Polymer Polymer, Metallurgy, Quantitative chemical Analysis
N7 (670)	Production technology, Industrial engg and Management, Computer control of manufacturing Systems, Production design, Production engg
N8 (670-670.285)	Production technology, Industrial instrumentation, CAD/CAM,

DEPT : APPLIED ELECTRONICS & INSTRUMENTATION

N9 *(670.285-670.427)*	*Computer based industrial control, Workshop technology, Automation, production systems and computer-integrated manufacturing, Mechanical workshop lab manual, Metal cutting, Welding process,*
N10 *(670.4275-690)*	*Computer control of processes, Digital measurement techniques, Measurement systems, Instrument transducers, Building construction,*
N11 *(690)*	*Building construction, Building materials, Principles of architecture, Town Planning, municipality building rules, Building, planning, designing,*

GENERAL

1 (001-001.3)	***Quantitative aptitude, Gate, Verbal reasoning, Humanities***
2 (001.3-003.74)	***Humanities, Operation research, System simulation, Information theory coding, Linear system analysis***
3 (020-303.4833)	***Psychology, Group discussion, Human Values, Technical communication,***
4 (303.4833- 330.1)	***Technical communication, Economics, Economic theory, Engineering economics and management***
5 (330.154.-339)	***Micro & Macro economics, Indian economy, Public Finance***
6 (342.54- 651.75)	***English communication, Grammer, Business communication,***
7(658 -658.403)	***Human Resource management, Financial management, Personal management***
8 (658.4032-658.5)	***Pert & CPM, Management information systems, Industrial management, Operations management***
9 (658.5-954)	***Operations management, Marketing management, Puzzles, Malayalam & English Fictions, Total quality management***