

**(A) LECTURE NOTES PREPARED BY EDUCATIONAL DEVELOPMENT
DIVISION**

S.No.	Course No.	Course Title	Title of Notes	Author(s)/Editor(s)
1.	AAOC C212	Social Engineering II	Principles of Economics	V.P. Rao
2.	AAOC C312	Operations Research	Operations Research	S.Venkateswaran and others
3.	AAOC C322	Systems	Mode of Engg Systems by Bond Graph	R. Gupta
4.	AAOC C341	Numerical Analysis	An Introduction to Numerical Analysis	Devi Prasad
5.	AAOC C351	Instru Methods of Anal	Laboratory Manual for Instrumental Methods of Analysis	R. Mahesh and others
6.	BIO C331	Biophysics	Aspects of Biophysics	S.P. Gupta
7.	BIO C331 & CHEM C341	Biophysical Chemistry	Biophysical Chemistry	Nelashish Nandi
8.	BIO C341/ PHA C452	Microbiology	Laboratory Manual for Microbiology	Y. Shivaji, S.K. Verma, U. Roy
9.	BIO G631	Membrane Liposome Technique	Liposome Technology	V.N. Sharma
10.	BITS C319	Negotiation Skills & Techniques	Negotiation Skills & Techniques	S. Anitha, Bhaskar Bose
11.	BITS G512	Object Oriented Programming	An Introduction to Object Oriented Programming	K.R.V. Subramanian
12.	BITS G619	Professional Practice	Professional Practice (Supp. Notes)	Krishna Mohan and others
13.	BITS G624	Comp. Base Simulation & Modelling	Comp. base Simulation & Modelling	K.R.V. Subramanian
14.	BITS G659	Technical Communication	Technical Communication	Meenakshi Raman and others
15.	CDP C323	Function & Work Stock Exchange	Stock Exchanges in India	H.R. Machiraju
16.	CE G531	Environmental Conservation	Environmental Conservation	S.K. Singh and others
17.	CHE C351/ CHE C341/ CHE 441	Heat Transfer Operations/ Selected Chemical Engineering Operations/ Process Control	Chemical Engineering Lab. Manual	R.K. Gupta

S.No.	Course No.	Course Title	Title of Notes	Author(s)/Editor(s)
18.	CHE C441	Process Control	Process Control	R.P. Vaid
19.	CHE G513	Environmental Management System	Environmental Management System	B.V. Babu, S.D. Manjare
20.	CHE G541	Process Plant Simulation	Process Plant Simulation	B.V. Babu
21.	CHE G551	Fluidisation Engineering	Advanced Separation Techniques	R.K. Gupta and others
22.	CS C321	Computer & Programming	Assembly Language Programming for MC68030 Based Computers	K.R.V. Subramanian
23.	CS C331	Computer Organisation	Digital Systems Design	P.S.V.S.K. Raju
24.	CS/EEE/ INSTR C391	Digital Electronics & Computer Organization	Lab Manual for Digital Electronics & Computer Organization	G. Raghurama, S. Gurunarayanan
25.	DE G611	Dynamics and Vibration	Advanced Dynamics for Engg.	N.N. Sharma
26.	EA C411	Robotics	Robotics & Control	I.J. Nagarath, R.K. Mittal
27.	EA C421	Genetic Engineering	Genetic Engineering: A Lab. Manual	Utpal Roy and others
28.	EA C422	Fibre Optics and Optoelectronics	Fibre Optics and Optoelectronics	R.P. Khare
29.	EA C451	Internetworking Technology	Internetworking Technology	Rahul Banerjee
30.	EA C452	Mobile Telecom. Networks	Mobile Telecom. Networks	J. Garrell
31.	EA C463	Neural Networks & Appl.	Neural Networks & Application	L. Behera
32.	EA C482	Fuzzy logic & Appl.	Introduction to Fuzzy sets & Fuzzy logic	M. Ganesh
33.	ECON C312	Money Bank & Inter Trade	Monetary Economics	G.P. Avasthi
34.	ECON C321	Macroeconomics	Macroeconomics (Concept Methods & Models)	G.P. Avasthi
35.	EEE C364/ INSTR C364	Analog Electronics	Analog Electronics	L.K. Maheshwari
36.	EEE C371	EM Energy Conversion	Electric Machines-Lab. Manual	I.J. Nagrath
37.	EEE C372	Circuits and Signals	Signals and Systems (Pts I & II)	I.J. Nagrath
38.	EEE C382	Communication Systems	Laboratory Manual for Comm. Sys.	S. Balaubramanina

S.No.	Course No.	Course Title	Title of Notes	Author(s)/Editor(s) and others
39.	EEE C383	Communication Systems	Lab Manual for Communication Systems	S. Balasubramanian and others
40.	EEE C391	Digital Electronics & Computer Orga.	Digital Electronics & Computer Orga.	G. Raghurama
41.	EEE C391	Digital Electronics & Computer Orga.	Introduction to Computer Org. (Supp. Notes)	G. Raghurama, TSB Sudarshan
42.	EEE C415	Digital Signal Processing	Lab Manual for Digital Signal Processing	Shikha Tripathi, and others
43.	EEE C433/ EEEG581	EM Field & Waves, RF & Microwaves	Smith Charts	Hema Singh
44.	EEE G581	RF & Microwaves	Microwave Experiments	S. Balasubramanian and others
45.	ENGG C212	Introduction to Systems	An Introduction to Systems	I.J. Nagrath and others
46.	ENGL C121	English Lang. Skills I	Developing English Language Skills	Krishna Mohan et. al
47.	ENGL C342	Science Writings	Science Writings	M. Banerji
48.	ENGL C353	Effective Public Speaking	Effective Public Speaking	Pushplata, Meenakshi Raman
49.	ES C112	Thermodynamics	Thermodynamics Tables, Figures and Charts	Adopted from Book
50.	ES C222	Energy Conversion	Basic Electrical Engineering	I.J. Nagrath
51.	ES C241	Electrical Sciences-I	Basics of PSPICE (Suppl. Notes)	M.M.S. Anand
52.	ES C241	Electrical Science I	Sinusoidal Forcing Function Response and Rectifiers	M.M.S Anand
53.	ES C252	Electronics	Electronics - Analog & Digital	I.J. Nagrath
54.	ET C311	Selected Technologies	Selected Technologies	Jessil A.C.
55.	ET C312	Tech. and Energy Assessment	Energy Efficiency and DSM application for Indian Industry	M. Ramachandran
56.	FIN C311	Merchant Banking	Merchant Banking (Principles & Practice)	H.R. Machiraju
57.	FIN C322	Project Finance	Project Finance	H.R. Machiraju
58.	HSS C314	Print and Audio Visual Advertising	Print and Audio-Visual Advertising	Sangeeta Sharma
59.	HUM C321	App of Indian Music	An Approach to Sangeet	R. Roy
60.	HUM C341	Comp. Indian Literature	Comp. Indian Literature	S. Mitra and others

S.No.	Course No.	Course Title	Title of Notes	Author(s)/Editor(s)
61.	HUM C342	Graphic Art	Graphic Arts	A.P. Rastogi
62.	HUM C382	Sankara's Thoughts	Sankara's Thoughts	S.D. Mishra
63.	INSTR C312	Industrial Instrumentation & Control	Process Control – Issue and Application	Surekha Bhanot
64.	INSTR C354	Instrumentation Technology	Electronics Instruments & Instr. Tech.	M.M.S. Anand and others
65.	INSTR C355	Electronics Instruments & Instrumentation Technology	Experiments in Instrumentation (Lab. Manual)	M.M.S. Anand, Rajesh Purohit
66.	INSTR C381	Transducers & Management Systems	Measurement Science Concepts & Applications Vol I and II	Surekha Bhanot
67.	INSTR C312	Industrial Instrumentation & Control	Process Control-Issues and Application Vol I & II	Surekha Bhanot
68.	IS C472	Geographical Information System	Computing Aspects of Geographical information system	Rajiv Gupta
69.	MATH C121	Finite Mathematics	Topics in Finite Maths	J.C. Pant
70.	MATH C131	Calculus	Calculus (Supplementary notes)	R.K. Patnaik
71.	MATH C151	Linear Algebra	Supp. Notes to Linear Algebra	V. Krishnamurthy and others
72.	MATH C211	Complex Variable	Laplace Transform	V.P. Mainra, B. Singh
73.	ME C331	Transport Phenomena II	Transport Phenomena II Lab. Manual	R.K. Mittal
74.	ME C331	Transport Phenomena-II	Data Book for Heat Transfer Applications (Supplementary Notes) Part I & II	M. Srinivas R.K. Mittal
75.	ME C332	Steam & Gas Turbine	Steam & Gas Turbine	G. Singh
76.	ME C342	Production Techniques	Lab. Manual for Production Technique	G. Harinarayana
77.	MEL G631	Physics and Modelling of Microelectronics devices	Lab. Manual for MOSFET characterization	Anu Gupta
78.	MSE G531	Concurrent Engineering	Concurrent Engineering	K.S. Sangwan
79.	MSMS C311	History & Dev of Museums	History & Dev of Museums	P. Mandke
80.	MSMS C312	Museum Management	Museum Management	P. Mandke and others

S.No.	Course No.	Course Title	Title of Notes	Author(s)/Editor(s)
81.	MSMS C321	Exhibits & Presentation	Exhibits & Presentation	M.K. Kashiramka
82.	MSMS C322	Profess Skills & Tech I	Profess Skills & Tech I	S. Kundu
83.	MSMS C331	Museum Edu & Ext Services	Museum Edu & Ext Services	S. Kundu
84.	MST G511	Nondestructive Testing Techniques	Nondestructive Testing Techniques	Ravi Pakash
85.	PHIL C221	Symbolic Logic	Intro to Symbolic Logic	B.K. Neema
86.	SOC C211	Dyna. of Social Change	Dynamics of Social Change	N. Prakash and others
87.	STD C312	Science Communication	Science Communication	M. Banerji
88.	STD C322	R&D Management	Management of R&D (Supp. Notes) (Jan. 95)	T.S.K.V. Iyer
89.	TA C111	Engg. Graphics	Engg. Graphics & CAD	A.P. Rastogi and others
90.	TA C112	Workshop Practice	Manual Workshop Practice	G. Harinarayana
91.	TA C112	Workshop Practice	Elements of Manufacturing Process	B.S.N. Parashar and others
92.	TA C112	Workshop Practice	Workshop Practice (Suppl. Notes)	B.S.N. Parashar and others
93.	TA C112	Workshop Practice	Practical Manual for Workshop Practice	R.K. Mittal, B.K. Rout
94.	TA C112	Workshop Practice	Practical Manual for Workshop Practice	K.S. Sangwan and others
95.	TA C152	Computer Programming I	Introduction to Comp. UNIX Algo. & Flowchart	Usha V. Subramanian and others
96.	TA C162	Computer Programming I	Computer Fundamentals	Usha V. Subramanian
97.	TA C211	Measurement Techniques I	Measurement Tech. I	Physics Faculty
98.	TA C211	Measurement Techniques I	Laboratory Manual for Physics Measurement Techniques I: Observations and Results	Physics Group Faculty
99.	TA C211	Measurement Techniques I	Measurement Tech. I	Bioscience Faculty
100.	TA C211	Measurement Techniques I	Measurement Tech. I	Chemistry Faculty
101.	TA C211	Measurement Techniques I	Laboratory Manual for Chemistry Measurement Techniques I	Chemistry Group Faculty
102.	TA C211	Measurement Technique-I	Lab Manual for Physics MT- I Observations and Results	Suresh Ramaswamy and others
103.	TA C222	Measurement Techniques - II	A Lab. Manual for Measurement Techniques-II	K.E. Raman and others
104.	TA C222	Measurement	Measurement Techniques-II	A. Sarkar & others

S.No.	Course No.	Course Title	Title of Notes	Author(s)/Editor(s)
		Techniques-II	(Supplementary Notes)	
105.	TA C222	Measurement Techniques-II	Measurement Techniques-II (Supplementary Notes)	A. Sarkar and others
106.	TA C231	Business Communication	Business Communication	M. Raman and others
107.	TAC 211	Measurement Technique-I	Lab Manual for Physics MT-I	Suresh Ramaswamy and others
108.		Office Practices	Office Practices Lectures Notes for Work-integrated Trade Certificate Training Programme	M.M.S. Anand
109.	ES C 263	Microprocessor Programming and Interfacing	Laboratory Manual for Microprocessor Programming and Interfacing	J.P. Mishra, S. Mohan, S. Gurunarayanan
110.	INSTR C312	Industrial Instrumentation and Control	Process Control - Issues and Applications	Surekha Bhanot
111.	ME C 332	Prime Movers and Fluid Machines	Laboratory Manual for Prime Movers and Fluid Machines	S.S. Deshmukh M.S. Soni
112.	EEE C383	Communication Systems	Laboratory Manual for Communication Systems	S. Balasubramanian and Others
113.	CHE C351/ CHE C441/ CHE C431	Heat Transfer Operations/ Process Control/ Selected Chemical Engineering Operations	Chemical Engineering Laboratory Manual	B.V. Babu and Others
114.	EEE G581	RF and Microwave Engineering	Laboratory Manual for RF and Microwave Engineering	S. Balasubramanian, Hema Singh
115.	TA C 211	Measurement Techniques I (Physics)	Measurement Techniques I (Physics) Observations and Results	Physics Group Faculty
116.	BIO C241 PHA C241	Microbiology	Laboratory Manual for Microbiology	Saby John, S. Ramachandran
117.	BIO C414	Genetic Engineering	Laboratory Manual for Genetic Engineering	Suman Kapur, A.K. Das
118.	TA C111	Engineering Graphics	Engineering Graphics with AUTOCAD	D.M. Kulkarni, A.K. Sarkar
119.	INSTR C381	Transducers and Measurement Systems	Measurement Science- Concepts and Applications Vol. I and II	Surekha Bhanot
120.	TA C 211	Measurement Techniques I	Laboratory Manual for Physics Measurement Techniques I:	Physics Group Faculty

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			Theory	
121.	TA C 211	Measurement Techniques I	Laboratory Manual for Physics Measurement Techniques I: Observations and Results	Physics Group Faculty
122.	ME C 331	Transport Phenomena II	Transport Phenomena II Laboratory Manual	R.K. Mittal
123.	TA C 112	Workshop Practice	Practical Manual for Workshop Practice	K.S. Sangwan and Others
124.	EEE G 546	Systems Simulation Laboratory	Laboratory Manual for Power Electronic Systems Simulation on PSCAD/EMTDC	S. Roy
125.	EEE C 415	Digital Signal Processing	Laboratory Manual for Digital Signal Processing	Shikha Tripathi and Others
126.	BIO G 642	Experimental Techniques	Laboratory Manual for Experimental Techniques	Vishal Saxena and Others
127.	INSTR C 381	Transducers and Measurement Systems	Measurement Science- Concepts and Applications Vol. I and II	Surekha Bhanot
128.	EEE G 542	Power Electronics Converters	Laboratory Manual of Power Electronics	H.V. Manjunath Dheerendra Singh
129.	BITS C 488 MBA C 488	Services Management System	Introduction to Outsourcing BPO and KPO	Usha Manjunath
130.	BIO G 641	Plant Cell and Tissue Culture Technology	Laboratory Manual for Plant Cell and Tissue Culture Technology	Jitendra Panwar, Rajesh Mehrotra, K. Krithika
131.	INSTR C381	Transducers and Measurement Systems	Measurement Science: Concepts and Applications Vol I and Vol II	Surekha Bhanot
132.	EA C 476	Power Apparatus and Networks	Laboratory Manual for Simulation Experiments on Power Apparatus and Networks	S. Roy
133.	HSS C 313	Critical Analysis of Literature and Cinema	Introduction to Film Appreciation	Geetha B.

(B) COURSE MATERIALS PREPARED FOR WORK-INTEGRATED LEARNING COURSES

S.No.	Course No.	Course Title	Title of Notes	Course preparation Team
1.	VOC 0503	Project Planning	Introduction to Project Planning	R.K. Bose, Sajja S. Rao & M. Ganesh
2.	VOC 0514	Syst. Analysis for Information Retrieval	Systems Analysis for Information Retrieval	R.K. Mittal
3.	VOC 2101	Office & Administrative Management	Instruction Manual for Office and Administrative Management	P.N. Choudhary
4.	VOC2102	Lib. Info. Services & Records Mgmt.	Lib. Info. Services & Records Mgmt.	R.K. Mittal
5.	VOC 2103	Comp. based Office Admn. Mgmt.	Comp. based Office Admn. Mgmt.	R.K. Mittal
6.	VOC 2104	Optg. & Maint. of Mod. Office Eqymnt.	Operation & Maintenance of Modern Office Equipment	K.E. Raman
7.	VOC 2105	Decision Support Systems: Information, Statistics & Models	Decision Support Systems: Information, Statistics & Models	S. Kumar
8.	VOC 2106	Mgmt. of Computers & Info. Systems	Management of Computers & Info. Systems	R.K. Mittal
9.	VOC 2201	Use of Personal Computer and Computer Operations & Applications-II	Personal Computers : Uses & Applications - II	Sajja S. Rao, Prasad V. Sathaye
10.	VOC 2202	Advanced Programming	Instruction Manual to Advanced Programming	K.R.V. Subramanian
11.	VOC 2203	Comp. based Office Admn. Mgmt.	Comp. based Office Admn. Mgmt.	R.K. Mittal
12.	VOC 2204	Intro to Software Mgmt.	Introduction to Software Management	Sajja S. Rao
13.	VOC 2205	Intro to Computer Hardware	Intro to Computer Hardware	K.E. Raman
14.	PO ZF521	Advances in Medicinal Chemistry	Advances in Medicinal Chemistry	P. Parimoo

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15.	TO ZC311	Intro to Maint. Engg.	Intro to Maint. Engg.	V.K. Deshpande
16.	S&T ZF531	Essentials of Technology	Technological Foundations	C.R. Mitra & P. Mandke
17.	TO ZC312	Energy Issues	Energy Issues	V.K. Deshpande
18.	TOC ZC245	Principles of Management	Principles of Management	T.Madhu Rao
19.	EA ZC481	OPS 5 Programming Language	OPS 5 Programming Language	S.N. Sharan
20.	SS ZG521	Fourth Generation Languages & Applications	Fourth Generation Languages & Applications	K.P. Vinod
21.	BITS ZG644	Development and use of Computer Software	Development and use of Computer Software	J.P.Mishra et. al.,
22.	TA ZC143	Introduction to Computers	Introduction to Computers	K.R.V. Subramanian
23.	PO ZG521	Immune Systems & Molecular Biology	Immune Systems & Molecular Biology	B.M. Mittal
24.	VOC 0212	Systems Thinking - Concepts & Computer Applications	Systems Thinking - Concepts & Computer Applications - Glossary & Question Bank	S. Dey et.al.,
25.	VOC 0106	Basic Mathematics for Systems Thinking	Basic Mathematics for Systems Thinking- Question Bank	J.C. Pant et.al.,
26.	STD ZG422/ MGTS ZC461	Technology Forecasting	Technology Forecasting	V.K. Devarayalu & C.V.S.N.K. Sarma
27.	CS ZG641	Microprocessor Based System Design	Examples of Microprocessor Based System Design	S. Ghosal
28.	CS ZG521	Object Oriented Programming	Principles of Object Oriented Programming- Concepts, Techniques & Tools	K.R.V. Subramanian & R. Narasimhan
29.	PO ZG512	Disinfection & Sterilization Processes	Disinfection & Sterilization Processes	B.M. Mithal
30.	PO ZG522	Formulation of Dosage Forms	Formulation of Dosage Forms	B.M. Mithal
31.	BITS ZG521/ SS ZG52	Fourth Generation Languages & Applications	Fourth Generation Languages & Applications	K.P. Vinod

S.No.	Course No.	Course Title	Title of Notes	Course preparation Team
32.	BITS ZG659	Technical Communication	Technical Communication	K. Mohan & N.P. Singh
33.	HT ZG622	Human Settlement Studies & Habitat Maintenance	Human Settlement Studies & Habitat Maintenance	Rajiv Gupta
34.	HT ZG652	Light weight Construction Technologies	Light weight Construction Technologies	J. Venkatramana et. al.,
35.	HT ZG631	Environmental Conservations	Environmental Conservations	S.K. Singh
36.	HT ZG651	Building Materials & Technology	Building Technology & Design	J. Venkatramana
37.	HHSM ZG632	Economics of Hospital & Health Systems	Introduction to Health Economics	M.S. Panigrahi
38.	HHSM ZG631	Introduction to Health Systems & Environmental Health	Introduction to Environmental Health	P. Srinivas
39.	HHSM ZG522	Strategic Planning	Strategic Planning	N. Sinha
40.	HHSM ZG512	Operations Management	Operations Management	Anup Kumar
41.	EM ZG681/ TOC ZC243	Management Concepts	Decision Making	V.K. Devarayalu
42.	S&T ZG621	Management of STI	Management of R&D	T.S.K.V. Iyer
43.	ENGG ZC212	Introduction to Systems	Introduction to Systems	B.V. Prasad & Arun Maity
44.	ENGG ZC212	Introduction to Systems	Introduction to Systems	I.J. Nagrath & R Gupta
45.	ET ZC322	Technology & Environmental Impact	Technology & Environmental Impact	T. Mandal
46.	HHSM ZG612	Accounting & Finance	Accounting & Finance	G. Jesudian et al
47.	TOC ZC245	Principles of Management	Readings in Management	T.S.K.V. Iyer
48.	TA ZC232	Engineering Measurements	Measurement Techniques II Lab Manual	K.E. Raman et al
49.	TO ZG522	Engineering Design	Engineering Design	S. Dayal
50.	HHSM GZ611	Managing People & Organization	The Pulimood Question - A Case	Walter M. Burnett
51.	HHSM ZG632	Economics of Hospitals & Health Systems	Economics of Hospital & Health Systems	H.R. Machiraju

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52.	SS ZG624	Computer Based Simulation & Modelling	Monte Carlo Simulation	K.R.V. Subramanian et al
53.	CS ZG521	Object Oriented Programming	Object Oriented Programming	R. Narasimhan
54.	AAOC ZC311	Data Processing	Introduction to DBMS	T.N.C. Partha sarthy
55.	BITS ZC461	Software Engineering	Emergence of Software Engineering	Ashish Bhatia & K.R.V. Subramanian
56.	TA ZC143	Introduction to Computers	Introducing Computers	Jeffery B. et al
57.	HHSM ZG521	Biostatistics & Decision Analysis	Problems in Biostatistics	S.K. Ray
58.	EEE ZG552	Solid State Drives	Problems on DC Choppers	Lokeswara Reddy
59.	ET ZC311	Selected Technologies	Communications Technology	G. Raghurama
60.	ET ZC311	Selected Technologies	Transportation Technology	R.K. Singh
61.	BITS ZG512	Object Oriented Programming	An Introduction To Object Oriented Programming	K.R.V. Subramanian
62.	BITS ZG624	Computer Based Simulation & Modelling	Computer Based Simulation & Modelling	K.R.V. Subramanian
63.	BIO ZG571	Enzyme Biotechnology	Enzyme Biotechnology	V.N. Sharma
64.	BIO ZC322	Ecology	Ecology	H.L. Kundu
65.	TOC ZC245	Principles of Management	Readings in Management - Vol II	T.S.K.V. Iyer
66.	TOC ZC245	Principles of Management	Readings in Management - Vol III	T.S.K.V. Iyer
67.	TA ZC312	Technical Report Writing	Technical Report Writing - Supplementary Reading Material	K. Mohan & M. Banerji
68.	HT ZG631	Environmental Conservation	Environmental Conservation Module 1 to 17	R.K. Singh, R.P. Singh, T. Devi Prasad, V. Rama Krishna, A.P. Singh
69.	HT ZG651	Building Materials & Technologies	Building Materials & Technologies Module 1 to 11	P.N. Rao, Rajiv Gupta
70.	HHSM ZG661	Biostatistics	Biostatistics Module 1 &	S.K. Ray
71.	TOC ZC245	Principles of Management	Principles of Management	Usha Jain

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72.	HT ZG671	Habitat Studies and Management	Habitat Studies and Management	Rajiv Gupta
73.	TO ZG661	Computer Aided Analysis & Design	Computer Aided Analysis & Design Module 1 to 3	S. Ghoshal, Ajit Pratap Singh
74.	NS ZC111	Navigation-I	Navigation-I Part I & II	C.L. Dubey, S.K. Thapliyal, N.S. Mainkar, T.K. Joseph, M.C. Yadav, H. Subramanian, S.K. Sinha, N.K. Basak, S.S. Choudhari, V. Subramanian, P.S. Barve
75.	NS ZC121	Cargo Handling & Stowage-I	Cargo Handling & Stowage-I	A.K. Prasad, V.K. Krishnan, A. Chopra, K. Vivekananda, P.S. Barve
76.	NS ZC131	Controlling the Operation of Ship-I	Controlling the Operation of Ship-I	S.S.S. Rewari, M. S. Karla, H.S. Oberoi, Verma, P. S. Barve
77.	NS ZC141	Merchant Shipping-I	Merchant Shipping-I	Ajay Achuthan, Y. Chabra, P.S. Barve
78.	HHSM ZG613	Introduction to Health Systems	Introduction to Health Systems	Nirupama Prakash
79.	PO ZG522	Formulations of Dosage Forms	Formulations of Dosage Forms	B.M. Mithal
80.	ENGG ZC212	Introduction to Systems	Introduction to Systems	I.J. Nagrath Rajiv Gupta
81.	TA ZC312	Technical Report Writing	Supplementary Reading Material	Krishna Mohan Meera Banerji N.P. Singh
82.	HHSM ZG662	Managing People & Organizations	Managing People & Organizations	Satyabadi Misra
83.	SS ZG653	Software Architectures	Software Industry - Lessons from the Past	K.R.V. Subramanian
84.	SS ZG653	Software Architectures	What Ails the Software Industry?	K.R.V. Subramanian
85.	SS ZG653	Software Architectures	Preliminary Concepts of Software Architecture	K.R.V. Subramanian
86.	TA ZC142	Computer Programming	Number Systems	K.R.V. Subramanian Usha V. Subramanian

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87.	TOC ZC245	Principles of Management	Principles of Management	Usha Jain Vivek Patil
88.	EEE ZG521	Optoelectronic Devices, Circuits & Systems	Injection Luminescence	V.K. Chaubey
89.	HHSM ZG664	Technical Communication	Structured Reading Guide	Krishna Mohan Meera Banerji Meenakshi Raman
90.	EEE ZG521	Optoelectronic Devices, Circuits & Systems	Optoelectronic Devices, Circuits & Systems	V.K. Chaubey
91.	HHSM ZG632	Economics of Hospital and Health Systems	Cost Benefit Analysis Economics Appraisal in Prevention Tackling Appraisal	G.P. Avasthi
92.	HHSM ZG661	Biostatistics	Descriptive Statistics & Examples of Probability	Navneet Goyal Renu Sharma
93.	SEWP ZG622	Software Project Management	Software Project Management	Sangeeta Bansal
94.	POWNT ZC221	Engineering Mathematics I	Differential Equations	R.K. Patnaik et.al.
95.	POWNT ZC231	Thermodynamics	Structured Reading Guide	Sandeep Kumar et.al.
96.	POWNT ZC251	Electrical Technology	Structured Reading Guide	K.E. Raman et.al.
97.	POWNT ZC211	Computer Programming	Structured Reading Guide	V. Satheesh et.al.
98.	POWNT ZC222	Electronics and Microprocessor	Structured Reading Guide	S. Gurunarayanan et.al.
99.	POWNT ZC242	Engineering Measurements	Structured Reading Guide	K.E. Raman et.al.
100.	POWNT ZC212	Engineering Mathematics II	Numerical Differentiation and Integration	Devi Prasad et.al.
101.	EA ZC481	Internetworking Technologies	Structured Reading Guide	Rahul Banerjee
102.	ET ZC362	Environmental Pollution Control	Noise Pollution and Environmental Impact Analysis	V. Ramakrishna et.al.
103.	EA ZC451	Internetworking Technologies	Structured Reading Guide (Updated)	Rahul Banerjee
104.	BITS ZG659	Technical Communication	Structured Reading Guide	Sanjay Kumar et.al.

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105.	POWNT ZC411	Environmental Pollution Control	Structured Reading Guide (Updated)	V. Ramakrishna et.al.
106.	POWNT ZC431	Maintenance & Safety	Supplementary Reading Material	K.S. Sangwan et.al.
107.	MM ZG531	Concurrent Engineering	Structured Reading Guide	K.S. Sangwan
108.	EA ZC451	Internetworking Technologies	Structured Reading Guide (Updated)	Rahul Banerjee
109.	TA ZC312	Technical Report Writing	Structured Reading Guide	Binod Mishra et.al.
110.	POWNT ZC231	Thermodynamics	Structured Reading Guide	T.N.S. Mathur et.al.
111.	BITS ZG659	Technical Communication	Structured Reading Guide	Meenakshi Raman et. al.
112.	ET ZC432	Quality Control Assurance & Reliability	Structured Reading Guide	B.K. Rout
113.	POWNT ZC311	Prime Movers & Fluid Machines	Steam Nozzles & Steam Turbine	S.P. Harsha
114.	POWNT ZC331	Instrumentation & Control	Structured Reading Guide	Manoj Sekhawat
115.	POWNT ZC322	Power Generation	Structured Reading Guide	I.V.Singh et.al.
116.	AAOC ZC111	Probability & Statistics	Structured Reading Guide	M.S. Radhakrishnan
117.	MATH ZC161	Engineering Mathematics I	Structured Reading Guide	Bimal Mishra
118.	MATH ZC232	Engineering Mathematics II	Interpolation, Numerical Differentiation & Integration	Devi Prasad
119.	POWNT ZC441	Power Systems Engineering	Structured Reading Guide	Vimal Bhanot

Some courseware that have been prepared were deployed on the Internet for use by students on a limited scale. Experiments were also carried out to make use of Internet based discussion forums, online synchronous meetings, etc.

S.No.	Course No.	Course Title
1.	BITS ZC481	Computer Networks
2.	BITS ZG659	Technical Communication
3.	EA ZC451	Internetworking Technologies
4.	ENGG ZC212	Introduction to Systems
5.	MATH ZC161	Engineering Mathematics I
6.	SS ZG513	Network Security
7.	SS ZG514	Object Oriented Analysis and Design
8.	SS ZG653	Software Architecture
9.	TOC ZC245	Principles of Management
10.	ENGG ZC241	Mechanical Technology
11.	ET ZC341	Instrumentation & Control
12.	ENGG ZC111	Electrical & Electronics Technology
13.	AAOC ZC222	Optimization

S.No.	Course No.	Course Title
14.	SS ZG518	Database Design & Applications
15.	MATH ZC232	Engineering Mathematics II
16.	ET ZC432	Project Preparation
17.	AAOC ZC111	Probability & Statistics
18.	AAOC ZC221	Graphs & Networks

Live Interactive Lecture Sessions

For the courses offered during II Semester 2008-2009 and I Semester 2009-2010 for the B.S. Engineering Technology, B.S. Information Systems, M.S. Software Systems, M.S. Manufacturing Management degree programmes conducted by the Institute for employed professionals, live interactive lecture sessions were delivered using the Internet Based Desktop Video Conferencing Systems accessible round the globe irrespective of time zone where the concerned students were located. The systems also permitted on demand services minus the video component to the students who may have either missed the live sessions or wanted to go through the session again. This was in addition to the asynchronous learning services provided to the students by the virtual university.

Second Semester 2008-2009

S.No.	Course No.	Course Title
1.	AAOC ZC111	Probability & Statistics
2.	AAOC ZC221	Graphs and Networks
3.	AAOC ZC222	Optimization
4.	BITS ZC411	Object Oriented Programming
5.	BITS ZC423T	Project work
6.	BITS ZC461	Software Engineering
7.	BITS ZC471	Management Information Systems
8.	BITS ZC481	Computer Networks
9.	BITS ZG553	Real Time Systems
10.	BITS ZG629T	Dissertation
11.	BITS ZG659	Technical Communication
12.	CM ZC483	Marketing Research
13.	CM ZG542	Knowledge Management
14.	CM ZG561	Management of Technology
15.	CM ZG619	Professional Practice
16.	CM ZG629T	Dissertation
17.	CS ZG623	Advanced Operating Systems
18.	EA ZC412	Flexible Manufacturing Systems
19.	EA ZC451	Internetworking Technologies
20.	EA ZC473	Multimedia Computing
21.	EEE ZG512	Embedded System Design
22.	ENGG ZC111	Electrical & Electronics Technology
23.	ENGG ZC232	Engineering Materials
24.	ENGG ZC241	Mechanical Technology
25.	ENGG ZC242	Maintenance and Safety
26.	ES ZC261	Digital Electronics & Microprocessors
27.	ESM ZG512	Management Information Systems

S.No.	Course No.	Course Title
28.	ESM ZG522	Human Resource Management
29.	ESM ZG532	Total Quality Management
30.	ESM ZG542	Introduction to Accounting and Finance
31.	ET ZC341	Instrumentation & Control
32.	ET ZC342	Materials Management
33.	ET ZC362	Environmental Pollution Control
34.	ET ZC412	Production Planning & Control
35.	ET ZC414	Project Appraisal
36.	ET ZC432	Quality Control Assurance & Reliability
37.	HHSM ZG514	Health Care Marketing & Strategic Management
38.	HHSM ZG515	Quantitative Methods
39.	HHSM ZG516	Epidemic & Disaster Management
40.	HHSM ZG517	Health Care Management
41.	HHSM ZG518	Total Quality Management
42.	HHSM ZG519	Project Management
43.	HHSM ZG629T	Dissertation
44.	IS ZC332	Database Systems & Applications
45.	IS ZC342	Structure of Programming Languages
46.	IS ZC351	Computer Organization & Architecture
47.	IS ZC361	Data Structures and Algorithms
48.	IS ZC362	Operating Systems
49.	IS ZC415	Data Mining
50.	IS ZC424	Software for Embedded Systems
51.	IS ZC462	Network Programming
52.	MATH ZC161	Engineering Mathematics – I
53.	MATH ZC222	Discrete Structures for Comp Science
54.	MATH ZC232	Engineering Mathematics – II
55.	MGTS ZC211	Principles of Management
56.	MM ZC411	Marketing
57.	MM ZC441	Human Resource Management
58.	MM ZG523	Project Management
59.	MM ZG542	Just-In-Time Manufacturing
60.	MM ZG611	Strategic Mgt & Business Policy
61.	MM ZG621	Supply Chain Management
62.	QMJ ZC411	Marketing
63.	QMJ ZG522	Quality Through Measurement Systems
64.	QMJ ZG523	Project Management
65.	QMJ ZG532	Environmental Management Systems
66.	QMJ ZG541	TQM Tools & Techniques
67.	QMJ ZG611	Strategic Mgt & Business Policy
68.	QMJ ZG621	Supply Chain Management
69.	QMJ ZG629T	Dissertation
70.	QMJ ZG658	Technical Communication

S.No.	Course No.	Course Title
71.	SS ZG513	Network Security
72.	SS ZG514	Object Oriented Analysis and Design
73.	SS ZG515	Data Warehousing
74.	SS ZG516	Computer Organization & Soft Systems
75.	SS ZG531	Pervasive Computing
76.	SS ZG562	Software Engineering & Management
77.	SS ZG653	Software Architectures
78.	TA ZC142	Computer Programming
79.	TA ZC232	Engineering Measurements
80.	TA ZC312	Technical Report Writing

First Semester 2009-2010

S.No.	Course No.	Course Title
1.	AAOC ZC111	Probability & Statistics
2.	AAOC ZC221	Graphs and Networks
3.	AAOC ZC222	Optimization
4.	BITS ZC411	Object Oriented Programming
5.	BITS ZC423T	Project Work
6.	BITS ZC461	Software Engineering
7.	BITS ZC471	Management Information Systems
8.	BITS ZC481	Computer Networks
9.	BITS ZG553	Real Time Systems
10.	BITS ZG629T	Dissertation
11.	BITS ZG659	Technical Communication
12.	CM ZC471	Management Information Systems
13.	CM ZC473	International Business
14.	CM ZG511	Consultancy Practice
15.	CM ZG513	Financial Management
16.	CM ZG515	Quantitative Methods
17.	CM ZG523	Project Management
18.	CM ZG532	Total Quality Management
19.	CM ZG611	Strategic Management & Business Policy
20.	CS ZG623	Advanced Operating Systems
21.	EA ZC412	Flexible Manufacturing Systems
22.	EA ZC451	Internetworking Technologies
23.	EA ZC473	Multimedia Computing
24.	EEE ZG512	Embedded System Design
25.	ENGG ZC111	Electrical & Electronics Technology
26.	ENGG ZC232	Engineering Materials
27.	ENGG ZC241	Mechanical Technology
28.	ENGG ZC242	Maintenance and Safety
29.	ES ZC261	Digital Electronics & Microprocessors

S.No.	Course No.	Course Title
30.	ET ZC341	Instrumentation & Control
31.	ET ZC342	Materials Management
32.	ET ZC362	Environmental Pollution Control
33.	ET ZC412	Production Planning & Control
34.	ET ZC414	Project Appraisal
35.	ET ZC432	Quality Control Assurance & Reliability
36.	HHSM ZC417	Managerial Communication
37.	HHSM ZC471	Management Information Systems
38.	HHSM ZG513	Biostatistics & Epidemiology
39.	HHSM ZG518	Total Quality Management
40.	HHSM ZG519	Project Management
41.	HHSM ZG531	Health Economics & Financial Management
42.	HHSM ZG631	Introduction to Health Systems & Environmental Health
43.	HHSM ZG665	Hospital Operations Management
44.	IS ZC332	Database Systems & Applications
45.	IS ZC342	Structure of Programming Languages
46.	IS ZC351	Computer Organization & Architecture
47.	IS ZC361	Data Structures and Algorithms
48.	IS ZC362	Operating Systems
49.	IS ZC415	Data Mining
50.	IS ZC424	Software for Embedded Systems
51.	IS ZC462	Network Programming
52.	MATH ZC161	Engineering Mathematics – I
53.	MATH ZC222	Discrete Structures for Comp Science
54.	MATH ZC232	Engineering Mathematics – II
55.	MGTS ZC211	Principles of Management
56.	MM ZC411	Marketing
57.	MM ZC441	Human Resource Management
58.	MM ZG511	Manufacturing Organization & Management
59.	MM ZG521	Financial Management
60.	MM ZG522	Total Quality Management
61.	MM ZG523	Project Management
62.	MM ZG541	Product Design
63.	MM ZG542	Just-in-Time Manufacturing
64.	MM ZG611	Strategic Mgt & Business Policy
65.	MM ZG621	Supply Chain Management
66.	QMJ ZC411	Marketing
67.	QMJ ZG511	TQM-Core Concepts
68.	QMJ ZG512	Human Resource Management & Organizational Learning
69.	QMJ ZG521	Quality Management Systems
70.	QMJ ZG523	Project Management
71.	QMJ ZG531	Statistical Process Control
72.	QMJ ZG611	Strategic Mgt & Business Policy

S.No.	Course No.	Course Title
73.	QMJ ZG621	Supply Chain Management
74.	QMJ ZG629T	Dissertation
75.	SS ZG513	Network Security
76.	SS ZG514	Object Oriented Analysis and Design
77.	SS ZG515	Data Warehousing
78.	SS ZG516	Computer Organization & Soft Systems
79.	SS ZG531	Pervasive Computing
80.	SS ZG562	Software Engineering & Management
81.	SS ZG653	Software Architectures
82.	TA ZC142	Computer Programming
83.	TA ZC232	Engineering Measurements
84.	TA ZC312	Technical Report Writing