

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

<b>S.No.</b>	<b>Course No.</b>	<b>Course Title</b>	<b>Title of Notes</b>	<b>Author(s)/Editor(s)</b>
1.	AAOC C212	Social Engineering II	Principles of Economics	VP 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	SP 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	VN 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	KRV 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	KRV Subramanian
14.	BITS G659	Technical Communication	Technical Communication	Meenakshi Raman and others
15.	CDP C323	Function & Work Stock Exchange	Stock Exchanges in India	HR Machiraju
16.	CE G531	Environmental Conservation	Environmental Conservation	SK Singh and others
17.	CHE C351/ CHE C341/ CHE 441	Heat Transfer Operations/ Selected Chemical Engineering Operations/ Process Control	Chemical Engineering Lab. Manual	RK Gupta

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18.	CHE C441	Process Control	Process Control	RP Vaid
19.	CHE G513	Environmental Management System	Environmental Management System	BV Babu, SD Manjare
20.	CHE G541	Process Plant Simulation	Process Plant Simulation	B.V. Babu
21.	CHE G551	Fluidisation Engineering	Advanced Separation Techniques	RK Gupta and others
22.	CS C321	Computer & Programming	Assembly Language Programming for MC68030 Based Computers	KRV Subramanian
23.	CS C331	Computer Organisation	Digital Systems Design	PSVSK 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.	NN Sharma
26.	EA C411	Robotics	Robotics & Control	IJ Nagarath, RK 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	GP Avasthi
34.	ECON C321	Macroeconomics	Macroeconomics (Concept Methods & Models)	GP Avasthi
35.	EEE C364/ INSTR C364	Analog Electronics	Analog Electronics	LK Maheshwari
36.	EEE C371	EM Energy Conversion	Electric Machines-Lab. Manual	IJ Nagrath
37.	EEE C372	Circuits and Signals	Signals and Systems (Pts I & II)	IJ Nagrath
38.	EEE C382	Communication Systems	Laboratory Manual for Comm. Sys.	S. Balaubramanina and others

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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	IJ 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	IJ Nagrath
51.	ES C241	Electrical Sciences-I	Basics of PSPICE (Suppl. Notes)	MMS Anand
52.	ES C241	Electrical Science I	Sinusoidal Forcing Function Response and Rectifiers	MMS Anand
53.	ES C252	Electronics	Electronics - Analog & Digital	IJ Nagrath
54.	ET C311	Selected Technologies	Selected Technologies	Jessil AC
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)	HR Machiraju
57.	FIN C322	Project Finance	Project Finance	HR 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
61.	HUM C342	Graphic Art	Graphic Arts	AP Rastogi

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62.	HUM C382	Sankara's Thoughts	Sankara's Thoughts	SD Mishra
63.	INSTR C312	Industrial Instrumentation & Control	Process Control – Issue and Application	Surekha Bhanot
64.	INSTR C354	Instrumentation Technology	Electronics Instruments & Instr. Tech.	MMS Anand and others
65.	INSTR C355	Electronics Instruments & Instrumentation Technology	Experiments in Instrumentation (Lab. Manual)	MMS 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	JC Pant
70.	MATH C131	Calculus	Calculus (Supplementary notes)	RK Patnaik
71.	MATH C151	Linear Algebra	Supp. Notes to Linear Algebra	V. Krishnamurthy and others
72.	MATH C211	Complex Variable	Laplace Transform	VP 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 RK 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	KS 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

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81.	MSMS C321	Exhibits & Presentation	Exhibits & Presentation	MK 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	BK 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)	TSKV 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	BSN Parashar and others
92.	TA C112	Workshop Practice	Workshop Practice (Suppl. Notes)	BSN Parashar and others
93.	TA C112	Workshop Practice	Practical Manual for Workshop Practice	R.K. Mittal, BK Rout
94.	TA C152	Computer Programming I	Introduction to Comp. UNIX Algo. & Flowchart	Usha V. Subramanian and others
95.	TA C162	Computer Programming I	Computer Fundamentals	Usha V. Subramanian
96.	TA C211	Measurement Techniques I	Measurement Tech. I	Physics Faculty
97.	TA C211	Measurement Techniques I	Measurement Tech. I	Bioscience Faculty
98.	TA C211	Measurement Techniques I	Measurement Tech. I	Chemistry Faculty
99.	TA C211	Measurement Technique-I	Lab Manual for Physics MT- I Observations and Results	Suresh Ramaswamy and others
100.	TA C222	Measurement Techniques - II	A Lab. Manual for Measurement Techniques-II	KE Raman and others

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101.	TA C222	Measurement Techniques-II	Measurement Techniques-II (Supplementary Notes)	A Sarkar & others
102.	TA C222	Measurement Techniques-II	Measurement Techniques-II (Supplementary Notes)	A Sarkar and others
103.	TA C231	Business Communication	Business Communication	M Raman and others
104.	TAC 211	Measurement Technique-I	Lab Manual for Physics MT-I	Suresh Ramaswamy and others
105.		Office Practices	Office Practices Lectures Notes for Work-integrated Trade Certificate Training Programme	M.M.S. Anand
106.	ES C 263	Microprocessor Programming and Interfacing	Laboratory Manual for Microprocessor Programming and Interfacing	J. P. Mishra, S. Mohan, S. Gurunayanan
107.	INSTR C312	Industrial Instrumentation and Control	Process Control - Issues and Applications	Surekha Bhanot
108.	ME C 332	Prime Movers and Fluid Machines	Laboratory Manual for Prime Movers and Fluid Machines	S.S. Deshmukh M.S. Soni
109.	EEE C383	Communication Systems	Laboratory Manual for Communication Systems	S. Balasubramanian and Others
110.	CHE C351/ CHE C441/ CHE C431	Heat Transfer Operations/ Process Control/ Selected Chemical Engineering Operations	Chemical Engineering Laboratory Manual	B. V. Babu and Others
111.	EEE G581	RF and Microwave Engineering	Laboratory Manual for RF and Microwave Engineering	S. Balasubramanian, Hema Singh
112.	TA C 211	Measurement Techniques I (Physics)	Measurement Techniques I (Physics) Observations and Results	Physics Group Faculty
113.	BIO C241 PHA C241	Microbiology	Laboratory Manual for Microbiology	Saby John, S. Ramachandran
114.	BIO C414	Genetic Engineering	Laboratory Manual for Genetic Engineering	Suman Kapur, A. K. Das
115.	TA C111	Engineering Graphics	Engineering Graphics with AUTOCAD	D. M. Kulkarni, A. K. Sarkar
116.	INSTR C381	Transducers and Measurement Systems	Measurement Science- Concepts and Applications Vol. I and II	Surekha Bhanot

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

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

<b>S.No.</b>	<b>Course No.</b>	<b>Course Title</b>	<b>Title of Notes</b>	<b>Course preparation Team</b>
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
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

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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 & CVS NK 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
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.,

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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
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.Parthasarthy
55. BITS ZC461	Software Engineering	Emergence of Software Engineering	Ashish Bhatia & K.R.V. Subramanian

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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
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

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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
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

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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.
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.

<b>S.No. Course No.</b>	<b>Course Title</b>	<b>Title of Notes</b>	<b>Course preparation Team</b>
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.

<b>S.No.</b>	<b>Course No.</b>	<b>Course Title</b>
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
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 2007-2008 and I Semester 2008-2009 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 who may have 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 2007-2008

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.	CS ZG623	Advanced Operating Systems
13.	EA ZC412	Flexible Manufacturing Systems
14.	EA ZC451	Internetworking Technologies
15.	EA ZC473	Multimedia Computing
16.	EEE ZG512	Embedded System Design
17.	ENGG ZC111	Electrical & Electronics Technology
18.	ENGG ZC232	Engineering Materials
19.	ENGG ZC241	Mechanical Technology
20.	ENGG ZC242	Maintenance and Safety
21.	ES ZC261	Digital Electronics & Microprocessors
22.	ET ZC341	Instrumentation & Control
23.	ET ZC342	Materials Management
24.	ET ZC362	Environmental Pollution Control
25.	ET ZC412	Production Planning & Control
26.	ET ZC414	Project Appraisal
27.	ET ZC432	Quality Control Assurance & Reliability
28.	HHSM ZG514	Health Care Marketing & Strategic Management
29.	HHSM ZG515	Quantitative Methods
30.	HHSM ZG516	Epidemic & Disaster Management
31.	HHSM ZG517	Health Care Management
32.	IS ZC332	Database Systems & Applications

<b>S.NO.</b>	<b>Course No.</b>	<b>Course Title</b>
33.	IS ZC342	Structure of Programming Languages
34.	IS ZC351	Computer Organization & Architecture
35.	IS ZC361	Data Structures and Algorithms
36.	IS ZC362	Operating Systems
37.	IS ZC415	Data Mining
38.	IS ZC424	Software for Embedded Systems
39.	IS ZC462	Network Programming
40.	MATH ZC161	Engineering Mathematics – I
41.	MATH ZC222	Discrete Structures for Comp Science
42.	MATH ZC232	Engineering Mathematics – II
43.	MGTS ZC211	Principles of Management
44.	MM ZC411	Marketing
45.	MM ZC441	Human Resource Management
46.	MM ZG511	Manufacturing Organization & Management
47.	MM ZG521	Financial Management
48.	MM ZG522	Total Quality Management
49.	MM ZG523	Project Management
50.	MM ZG541	Product Design
51.	MM ZG542	Just-In-Time Manufacturing
52.	MM ZG611	Strategic Mgt & Business Policy
53.	MM ZG621	Supply Chain Management
54.	QMJ ZC411	Marketing
55.	QMJ ZG521	Quality Management System
56.	QMJ ZG522	Quality Through Measurement System
57.	QMJ ZG523	Project Management
58.	QMJ ZG532	Environment Management System
59.	QMJ ZG541	TQM Tools and Techniques
60.	QMJ ZG611	Strategic Mgt & Business Policy
61.	QMJ ZC621	Supply Chain Management
62.	SS ZG513	Network Security
63.	SS ZG514	Object Oriented Analysis and Design
64.	SS ZG515	Data Warehousing
65.	SS ZG516	Computer Organization & Soft Systems
66.	SS ZG531	Pervasive Computing
67.	SS ZG562	Software Engineering & Management
68.	SS ZG653	Software Architectures
69.	TA ZC142	Computer Programming
70.	TA ZC232	Engineering Measurements
71.	TA ZC312	Technical Report Writing

### First 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 ZC461	Software Engineering
6.	BITS ZC471	Management Information Systems
7.	BITS ZC481	Computer Networks
8.	BITS ZG553	Real Time Systems
9.	BITS ZG659	Technical Communication
10.	CM ZC473	International Business
11.	CM ZG511	Consultancy Practice
12.	CM ZG513	Financial Management
13.	CM ZG515	Quantitative Methods
14.	CS ZG623	Advanced Operating Systems
15.	EA ZC451	Internetworking Technologies
16.	EA ZC473	Multimedia Computing
17.	EEE ZG512	Embedded System Design
18.	ENGG ZC111	Electrical & Electronics Technology
19.	ENGG ZC232	Engineering Materials
20.	ENGG ZC241	Mechanical Technology
21.	ENGG ZC242	Maintenance and Safety
22.	ES ZC261	Digital Electronics & Microprocessors
23.	ET ZC341	Instrumentation & Control
24.	ET ZC342	Materials Management
25.	ET ZC362	Environmental Pollution Control
26.	ET ZC412	Production Planning & Control
27.	ET ZC414	Project Appraisal
28.	ET ZC432	Quality Control Assurance & Reliability
29.	HHSM ZC417	Managerial Communication
30.	HHSM ZC471	Management Information Systems
31.	HHSM ZG518	Total Quality Management
32.	HHSM ZG519	Project Management
33.	IS ZC332	Database Systems & Applications
34.	IS ZC342	Structure of Programming Languages
35.	IS ZC351	Computer Organization & Architecture
36.	IS ZC361	Data Structures and Algorithms
37.	IS ZC362	Operating Systems
38.	IS ZC415	Data Mining
39.	IS ZC424	Software for Embedded Systems
40.	IS ZC462	Network Programming
41.	MATH ZC161	Engineering Mathematics – I

<b>S.NO.</b>	<b>Course No.</b>	<b>Course Title</b>
42.	MATH ZC222	Discrete Structures for Comp Science
43.	MATH ZC232	Engineering Mathematics – II
44.	MGTS ZC211	Principles of Management
45.	MM ZC411	Marketing
46.	MM ZG511	Manufacturing Organization & Management
47.	MM ZG521	Financial Management
48.	MM ZG522	Total Quality Management
49.	MM ZG523	Project Management
50.	MM ZG541	Product Design
51.	MM ZG611	Strategic Mgt & Business Policy
52.	QMJ ZC411	Marketing
53.	QMJ ZC511	TQM-Core Concepts
54.	QMJ ZG512	Human Resource Management & Organizational Learning
55.	QMJ ZG521	Quality Management Systems
56.	QMJ ZG523	Project Management
57.	QMJ ZG531	Statistical Process Control
58.	QMJ ZG611	Strategic Mgt & Business Policy
59.	QMJ ZC621	Supply Chain Management
60.	SS ZG513	Network Security
61.	SS ZG514	Object Oriented Analysis and Design
62.	SS ZG515	Data Warehousing
63.	SS ZG516	Computer Organization & Soft Systems
64.	SS ZG531	Pervasive Computing
65.	SS ZG562	Software Engineering & Management
66.	SS ZG653	Software Architectures
67.	TA ZC142	Computer Programming
68.	TA ZC232	Engineering Measurements
69.	TA ZC312	Technical Report Writing