DUAL DEGREE PROGRAMME

B. Tech & MBA

(2014-15)

Course Structure

KIIT UNIVERSITY
(D e c l a r e d U / S 3 o f U G C A c t , 1 9 5 6)
B h u b a n e s w a r , O d i s h a , I n d i a

DUAL DEGREE PROGRAMME

B. Tech & MBA

(2014-15)

Course Structure

Applicable to students admitted in 2013 -14 & 2014 - 15 Academic Session

KIIT UNIVERSITY
(Declared U / S 3 of UGC Act , 1956)
Bhubaneswar, Odisha, India

Total Credits for B.Tech & MBA Course Structure (2014-15)

Name of the Course	B.Tech Credits	MBA Credits	Total Credits
B.Tech in Civil Engg. & MBA	187	92	279
B.Tech in Computer Science Engg. & MBA	185	92	277
B.Tech in Electrical Engg. & MBA	187	92	279
B.Tech in Electronics & Electrical Engg. & MBA	186	92	278
B.Tech in Electronics & Telecommunication Engg. & MBA	187	92	279
B.Tech in Mechanical Engg. & MBA	186	92	278

COURSE STRUCTURE FOR FIRST YEAR DUAL DEGREE B.TECH & MBA PROGRAMME
AT KIIT UNIVERSITY, BHUBANESWAR
(FOR STUDENTS ADMITTED IN THE SESSION 2013-2014 & 2014-2015)
(Syllabus common to All Branches of Dual Degree B. Tech & MBA Programme)
FIRST SEMESTER
(SCHEME-I)

Theory							
Sl. No	Course Code	Subject	L	T	P	Total	Credit
1.	MA1001	Mathematics – I	3	1	0	4	4
2.	PH1001	Physics – I	3	0	0	3	3
3.	CH1001	Chemistry	3	1	0	4	4
4.	ME1001	Engg. Mechanics	3	1	0	4	4
5.	EE1001	Electrical Science	3	0	0	3	3
Total Theory						**18**	**18**
Practical							
1.	PH1091	Physics Lab – I	0	0	3	3	2
2.	CH1091	Chemistry Lab	0	0	3	3	2
3.	EE1091	Electrical Science Lab	0	0	3	3	2
Sessional							
1.	CE1081	Engg. Graphics	0	0	3	3	2
Total Practical & Sessional						**12**	**8**
Semester Total						**30**	**26**

SECOND SEMESTER
(SCHEME-I)

Theory							
Sl. No	Course Code	Subject	L	T	P	Total	Credit
1.	MA1002	Mathematics – II	3	1	0	4	4
2.	PH1002	Physics – II	3	0	0	3	3
3.	CS1001	Programming in C	3	0	0	3	3
4.	EC1001	Basic Electronics	3	0	0	3	3
5.	HS1001	Professional Communication	3	0	0	3	3
Total Theory						**16**	**16**
Practical							
1.	PH1092	Physics Lab – II	0	0	3	3	2
2.	EC1091	Basic Electronics Lab	0	0	3	3	2
3.	CS1091	Computer Programming Lab	0	0	3	3	2
Sessional							
1.	ME1081	Basic Manufacturing Systems	0	0	3	3	2
2.	HS1081	Professional Communication Lab	0	0	2	2	1
Total Practical & Sessional						**14**	**9**
Semester Total						**30**	**25**
3.	EAA1	Extra Academic Activity					P/NP

FIRST SEMESTER
(SCHEME-II)

Theory							
Sl. No.	**Course Code**	**Subject**	**L**	**T**	**P**	**Total**	**Credit**
1.	MA1001	Mathematics – I	3	1	0	4	4
2.	PH1001	Physics – I	3	0	0	3	3
3.	CS1001	Programming in C	3	0	0	3	3
4.	EC1001	Basic Electronics	3	0	0	3	3
5.	HS1001	Professional Communication	3	0	0	3	3
Total Theory						**16**	**16**
Practical							
1.	PH1091	Physics Lab – I	0	0	3	3	2
2.	EC1091	Basic Electronics Lab	0	0	3	3	2
3.	CS1091	Computer Programming Lab	0	0	3	3	2
Sessional							
1.	ME1081	Basic Manufacturing Systems	0	0	3	3	2
2.	HS1081	Professional Communication Lab	0	0	2	2	1
Total Practical & Sessional						**14**	**9**
Semester Total						**30**	**25**

SECOND SEMESTER
(SCHEME-II)

Theory							
Sl. No.	**Course Code**	**Subject**	**L**	**T**	**P**	**Total**	**Credit**
1.	MA1002	Mathematics –II	3	1	0	4	4
2.	PH1002	Physics – II	3	0	0	3	3
3.	CH1001	Chemistry	3	1	0	4	4
4.	ME1001	Engg. Mechanics	3	1	0	4	4
5.	EE1001	Electrical Science	3	0	0	3	3
Total Theory						**18**	**18**
Practical							
1.	PH1092	Physics Lab – II	0	0	3	3	2
2.	CH1091	Chemistry Lab	0	0	3	3	2
3.	EE1091	Electrical Science Lab	0	0	3	3	2
Sessional							
1.	CE1081	Engg. Graphics	0	0	3	3	2
Total Practical & Sessional						**12**	**8**
Semester Total						**30**	**26**
1	EAA1	Extra Academic Activity					P/NP

COURSE STRUCTURE FOR B.TECH IN CIVIL ENGINEERING AND MBA

SEMESTER-III

Theory

Sl. No.	Course Code	Subjects	L	T	P	Total	Credit
1	MA2001	Mathematics-III	3	1	0	4	4
2	CE2001	Solid Mechanics	3	1	0	4	4
3	CE2003	Fluid Mechanics-I	3	1	0	4	4
4	CE2005	Surveying	3	0	0	3	3
5	CE2007	Civil Engineering Materials & Construction	3	0	0	3	3
6	CE2009	Environmental Engineering-I	3	0	0	3	3
7	BM5201	Financial Accounting	2	0	0	2	2
8	BM5202	Cost and Management Accounting	2	0	0	2	2
Total of Theory						**25**	**25**
Practical							
1	CE2091	Environmental Engg. Lab	0	0	3	3	2
2	CE2093	Material Testing Lab	0	0	3	3	2
3	CE2095	Surveying Field Work-I	0	0	3	3	2
Sessional							
1	CE2081	Building Drawings	0	0	3	3	2
Total Practical & Sessional						**12**	**8**
Semester Total						**37**	**33**

SEMESTER-IV

Theory

Sl. No.	Course Code	Subjects	L	T	P	Total	Credit
1	MA2004	Numerical Methods	3	1	-	4	4
2	CE2002	Fluid Mechanics-II	3	1	-	4	4
3	CE2004	Structural Analysis-I	3	1	-	4	4
4	CE2006	Transportation Engineering-I	3	-	-	3	3
5	CE2008	Advanced Surveying	3	-	-	3	3
6	CE2012	Design of Concrete Structure-I	3	1	-	4	4
7	BM5403	Managerial Economics	3	1	0	4	4
Total of Theory						**26**	**26**
Practical							
1	CE2092	Fluid Mechanics Lab	0	0	3	3	2
2	CE2094	Transportation Engg. Lab.	0	0	3	3	2
3	CE2096	Surveying Field Work-II	0	0	3	3	2
Sessional							
1		Language Lab	0	0	2	2	1
Total Practical & Sessional						**11**	**7**
Semester Total						**37**	**33**

SEMESTER-V

Theory

Sl. No.	Course Code	Subjects	L	T	P	Total	Credit
1	CE3001	Structural Analysis-II	3	1	0	4	4
2	CE3003	Water Resources Engineering-I	3	1	-	4	4
3	CE3005	Geotechnical Engineering-I	3	1	0	4	4
4	CE3007	Design of Steel Structure	3	1	0	4	4
5	BM5103	Organizational Behavior	2	0	0	2	2
6	BM5503	Quantitative Methods	2	0	0	2	2
Total of Theory						**20**	**20**
Practical							
1	CE3091	Geotechnical Engineering Lab.	0	0	3	3	2
Sessional							
1	CE3081	Hydrology & Irrigation Design	0	0	3	3	2
2	CE3083	Structural Design (Steel)	0	0	3	3	2
3		CAT-I	0	0	2	2	1
Total Practical & Sessional						**11**	**7**
Semester Total						**31**	**27**

SEMESTER-VI

Theory

Sl. No.	Course Code	Subjects	L	T	P	Total	Credit
1	CE3002	Water Resources Engineering-II	3	1	-	4	4
2	CE3004	Geotechnical Engineering-II	3	1	-	4	4
3	CE3006	Design of Concrete Structures-II	3	1	-	4	4
4	CE3008	Environmental Engineering-II	3	-	-	3	3
5	CE3012	Construction Planning & Management	3	-	-	3	3
6	BM5301	Marketing Management – I	2	0	0	2	2
7	BM5302	Marketing Management – II	2	0	0	2	2
Total of Theory						**22**	**22**
Practical							
Sessional							
1	CE3082	Water Resources Design	0	0	3	3	2
2	CE3084	Structural Design (RCC)	0	0	3	3	2
3	CE3086	Geotechnical Engineering Design	0	0	3	3	2
4	CE3088	Estimating & Costing	0	0	2	2	1
5		CAT-II	0	0	2	2	1
Total Practical / Sessional						**13**	**8**
Semester Total						**35**	**30**

SEMESTER-VII

Sl. No.	Course Code	Subjects	L	T	P	Total	Credit
1	CE4001	Transportation Engineering-II	3	0	0	3	3
2		Elective – I	3	0	0	3	3
3	BM5203	Corporate Finance	3	1	0	4	4
Total Theory						**10**	**10**
Practical							
1	CE4091	Concrete & Structure Lab.	0	0	3	3	2
Sessional							
1	CE4081	Transportation Design	0	0	3	3	2
2	CE4083	Environmental Design	0	0	3	3	2
3	CE4085	Project Preparation	0	0	6	6	3
4	CE4087	Practical Training	-	-	-	-	2
Total Practical & Sessional						**15**	**11**
Semester Total						**25**	**21**

SEMESTER-VIII

Sl. No.	Course Code	Subjects	L	T	P	Total	Credit
1		Elective –II	3	0	0	3	3
2	BM5601	Information Technology for Managers	2	0	0	2	2
3	BM5602	Enterprise Information System	2	0	0	2	2
Total Theory						**7**	**7**
Sessional							
1	CE4082	Project	0	0	9	9	5
2	CE4084	Comprehensive Viva Voce	-	-	-	-	2
2	CE4086	Seminar	0	0	3	3	2
On Job Training						**-**	**20**
Total Practical & Sessional						**12**	**9**
Semester Total						**19**	**36**

* On - the - Job Training (OJT) of 20 Credits is to be covered in the Summer Term after 8th Semester.

SEMESTER-IX

Sl. No.	Course Code	Subjects	L	T	P	Total	Credit
1	BM5801	Production and Operations Management	3	1	0	4	4
2	BM6703	Business Ethics and Corporate Social Responsibility	2	0	0	2	2
3	BM6702	Legal Aspects of Business	2	0	0	2	2
4	BM5502	Business Research Methodology	2	0	0	2	2
5	BM5102	Human Resource Management	2	0	0	2	2
6	BM6701	Strategic Management	3	1	0	4	4
7		MBA Elective 1	2	0	0	2	2
8		MBA Elective 2	2	0	0	2	2
9		MBA Elective 3	2	0	0	2	2
10		MBA Elective 4	2	0	0	2	2
Total Theory						**24**	**24**
Semester Total						**24**	**24**

SEMESTER-X

Sl. No.	Course Code	Subjects	L	T	P	Total	Credit
1		MBA Elective 5	2	0	0	2	2
2		MBA Elective 6	2	0	0	2	2
3		MBA Elective 7	2	0	0	2	2
4		MBA Elective 8	2	0	0	2	2
5		MBA Elective 9	2	0	0	2	2
6		MBA Elective 10	2	0	0	2	2
7		MBA Elective 11	2	0	0	2	2
8		MBA Elective 12	2	0	0	2	2
9		MBA Elective 13	2	0	0	2	2
10		MBA Elective 14	2	0	0	2	2
11		MBA Elective 15	2	0	0	2	2
12		MBA Elective 16	2	0	0	2	2
Semester Total						**24**	**24**

LIST OF DEPARTMENT ELECTIVES

Department Elective - I

Sl.No.	Subject Code	Subject Name	Credit
1.	CE4031	Concrete Technology	3
2.	CE4037	Reinforced Concrete Repairs and Maintenance	3
3.	CE4047	Groundwater Hydrology and Management	3
4.	CE4051	Flood and Drought Estimation and Management	3
5.	CE4053	Solid and Hazardous Waste Management	3

Department Elective - II

Sl.No.	Subject Code	Subject Name	Credit
1.	CE4046	Traffic Engineering & Transportation Planning	3
2.	CE4052	Disaster Management	3
3.	CE4062	Water Resources Systems	3
4.	CE4064	Environmental Impact Assessment & Auditing	3
5.	CE6134	Project quality and Safety Management	3

COURSE STRUCTURE FOR B.TECH IN COMPUTER ENGINEERING AND MBA

SEMESTER III

Theory

Sl. No.	Course Code	Subjects	L	T	P	Total	Credit
1	MA-2003	Discrete Mathematics	3	1	0	4	4
2	CS-2001	Data Structures & Algorithms	3	1	0	4	4
3	IT-2001	Object Oriented Programming	3	0	0	3	3
4	MA-2001	Mathematics-III	3	1	0	4	4
5	EC-2009	Digital Electronics Circuits	3	1	0	4	4
6	CH-2001	Environmental Sciences	2	0	0	2	2
7	BM5201	Financial Accounting	2	0	0	2	2
8	BM5202	Cost and Management Accounting	2	0	0	2	2
Total of Theory						**25**	**25**
Practical							
1	CE2091	Data Structures Lab	0	0	3	2	2
2	IT2091	Object Oriented Programming Lab	0	0	3	2	2
3	EC2093	Digital Electronics Lab	0	0	3	2	2
Total Practical						**6**	**6**
Semester Total						**31**	**31**

SEMESTER IV

Theory

Sl. No.	Course Code	Subjects	L	T	P	Total	Credit
1	CS-2004	Database Management System	3	1	0	4	4
2	CS-2002	Operating System	3	1	0	4	4
3	IT-2002	Programming Tools and Techniques	3	1	0	4	4
4	EC-2004	Principle of Digital Communication	3	1	0	4	4
5	MA-2002	Mathematics – IV	3	1	0	4	4
6	BM5403	Managerial Economics	3	1	0	4	4
Total of Theory						**24**	**24**
Practical							
1	CS-2094	DBMS Lab	0	0	3	2	2
2	CS-2092	Operating System Lab	0	0	3	2	2
3	IT-2092	Programming Tools and Techniques Lab	0	0	3	2	2
Sessional							
1	HS-2081	Language Lab	0	0	2	2	1
Total Practical & Sessional						**8**	**7**
Semester Total						**32**	**31**

SEMESTER V

Theory

Sl. No.	Course Code	Subjects	L	T	P	Total	Credit
1	CS-3001	Design & Analysis of Algorithms	3	1	0	4	4
2	IT-3003	Software Engineering	3	1	0	4	4
3	IT-3001	Computer Networks	3	1	0	4	4
4	CS-3003	Formal Languages and Automata Theory	3	1	0	4	4
5	CS-3005	Computer Organization and Architecture	3	1	0	4	4
6	BM5103	Organizational Behaviour	2	0	0	2	4
7	BM5503	Quantitative Methods	2	0	0	2	4
Total of Theory						**24**	**24**
Practical							
1	CS-3091	Design & Analysis of Algorithms Lab	0	0	3	2	2
2	IT-3091	Computer Networks Lab	0	0	3	2	2
Sessional							
1	TP-3081	CAT-I	0	0	2	1	1
Total Practical & Sessional						**5**	**5**
Semester Total						**29**	**29**

SEMESTER VI

Theory

Sl. No.	Course Code	Subjects	L	T	P	Total	Credit
1	CS-3002	Compiler Design	3	1	0	4	4
2	IT-3004	Object Oriented System Design	3	1	0	4	4
3	CS-3006	High Performance Computer Architecture	3	1	0	4	4
4	CS-3004	Computer Graphics	3	0	0	3	3
5	BM5301	Marketing Management I	2	0	0	2	2
6	BM5302	Marketing Management II	2	0	0	2	2
Total of Theory						**19**	**19**
Practical							
1	CS-3092	Compiler Design Lab	0	0	3	2	2
2	IT-3098	Software Engineering Lab	0	0	3	2	2
3	CS-3094	Computer Graphics Lab	0	0	3	2	2
Sessional							
1	TP-3082	CAT -II	0	0	2	1	1
Total Practical & Sessional						**7**	**7**
Semester Total						**26**	**26**

SEMESTER VII

Theory

Sl. No.	Course Code	Subjects	L	T	P	Total	Credit
1	CS-4001	Artificial Intelligence	3	1	0	4	4
2	IT-3002	Data Analytics	3	1	0	4	4
3		School Elective I / Open Elective	3	0	0	3	3
4	BM5203	Corporate Finance	3	1	0	4	4
Total of Theory						**15**	**15**
Practical							
1	IT-3092	Data Analytics Lab	0	0	3	2	2
Sessional							
1	CS-4081	Project Preparation	0	0	6	3	3
2	CS-4083	Practical Training	-	-	-	-	2
Total Practical & Sessional						**7**	**7**
Semester Total						**22**	**22**

SEMESTER VIII

Theory

Sl. No.	Course Code	Subjects	L	T	P	Total	Credit
1		School Elective II / Open Elective	3	0	0	3	3
2		School Elective III / Open Elective	3	0	0	3	3
3	BM5601	Information Technology for Managers	2	0	0	2	2
4	BM5602	Enterprise Information System	2	0	0	2	2
Total of Theory						**10**	**10**
Practical							
Sessional							
1	CS-4086	Comprehensive Viva	-	-	-	-	2
2	CS-4082	Project	0	0	9	5	5
3	CS-4084	Seminar	0	0	3	2	2
Total Practical & Sessional						**9**	**9**
Semester Total						**19**	**19**

* **On - the - Job Training (OJT) of 20 Credits is to be covered in the Summer Term after 8th Semester.**

SEMESTER IX

Theory

Sl. No.	Course Code	Subjects	L	T	P	Total	Credit
1	BM5801	Production and Operation Management	3	1	0	4	4
2	BM6703	Business Ethics and Corporate Social Responsibility	2	0	0	2	2
3	BM6702	Legal Aspects of Business	2	0	0	2	2
4	BM5502	Business Research Methodology	2	0	0	2	2
5	BM5102	Human Resource Management	2	0	0	2	2
6	BM6701	Strategic Management	3	1	0	4	4
7		MBA Elective -1	2	0	0	2	2
8		MBA Elective -2	2	0	0	2	2
9		MBA Elective -3	2	0	0	2	2
10		MBA Elective -4	2	0	0	2	2
Total of Theory						**24**	**24**
Semester Total						**24**	**24**

SEMESTER X

Sl. No.	Course Code	Subjects	L	T	P	Total	Credit
1		MBA Elective -5	2	0	0	2	2
2		MBA Elective -6	2	0	0	2	2
3		MBA Elective -7	2	0	0	2	2
4		MBA Elective -8	2	0	0	2	2
5		MBA Elective -9	2	0	0	2	2
6		MBA Elective -10	2	0	0	2	2
7		MBA Elective -11	2	0	0	2	2
8		MBA Elective -12	2	0	0	2	2
9		MBA Elective -13	2	0	0	2	2
10		MBA Elective -14	2	0	0	2	2
11		MBA Elective -15	2	0	0	2	2
12		MBA Elective -16	2	0	0	2	2
Total Theory						**24**	**24**
Semester Total						**24**	**24**

LIST OF DEPARTMENT ELECTIVES

Department Elective - I

Sl.No.	Subject Code	Subject Name	Credit
1.	CS-4021	Parallel and Distributed Computing	3
2.	IT-4021	Computer Security	3
3.	CS-4023	Real –Time Systems	3
4.	IT-3006	Mobile Computing	3
5.	CS-2006	Statistical Techniques	3

Department Elective - II

Sl.No.	Subject Code	Subject Name	Credit
1.	IT-4022	Management Information System	3
2.	IT-4042	M- Commerce	3
3.	IT-4062	Cyber Law and Intellectual Property Right	3
4.	IT-4044	Internet of Things	3
5.	IT-4001	Enterprise Resource Planning	3

Department Elective - III

Sl.No.	Subject Code	Subject Name	Credit
1.	CS-4042	Embedded System	3
2.	CS-4044	Microprocessor	3
3.	CS-4026	Robotics and Control	3
4.	CS-4064	Computer Vision	3
5.	IT-4026	Natural Language Processing	3
6.	CS-4062	Human Computer Interaction	3

COURSE STRUCTURE FOR B.TECH IN ELECTRICAL ENGINEERING AND MBA
SEMESTER-III

Theory

Sl. No.	Subject Code	Subjects	L	T	P	Total	Credit
1.	MA 2001	Mathematics –III	3	1	0	4	4
2.	EE 2001	Electrical Machines-I	3	1	0	4	4
3.	EE 2003	Network Analysis	3	1	0	4	4
4.	EC 2007	Analog Electronics	3	1	0	4	4
5.	CS 2003	Data Structure and Java Programming	3	1	0	4	4
6.	CH 2001	Environmental Science	2	0	0	2	2
7.	BM 5201	Financial Accounting	2	0	0	2	2
8.	BM 5202	Cost and Management Accounting	2	0	0	2	2
Total Theory						**26**	**26**
Practical							
1.	CS 2093	Data Structure and Java Programming Lab	0	0	3	3	2
2.	EE 2091	Networks & Electronics Circuit Lab	0	0	3	3	2
Sessional							
1.	HS 2081	Language Lab	0	0	3	3	1
Total Practical & Sessional						**9**	**5**
Total of Semester						**35**	**31**

SEMESTER-IV

Theory

Sl. No.	Subject Code	Subjects	L	T	P	Total	Credit
1.	MA 2002	Mathematics-IV	3	1	0	4	4
2.	EE 2002	Electrical Machines –II	3	1	0	4	4
3.	EC 2009	Digital Electronics Circuits	3	1	0	4	4
4.	EE 2004	Electrical Measurements and Instrumentation	3	1	0	4	4
5.	ME 2016	Thermal Engineering Applications	3	1	0	4	4
6.	BM 5403	Managerial Economics	3	1	0	4	4
Total Theory						**24**	**24**
Practical							
1.	EE 2092	Electrical Measurements and Instrumentation Lab	0	0	3	3	2
2.	EE 2094	Digital Circuit Lab	0	0	3	3	2
3.	EE 2096	Electrical Machines Lab	0	0	3	3	2
Total Practical & Sessional						**9**	**6**
Total of Semester						**33**	**30**

SEMESTER-V

Theory

Sl. No.	Subject Code	Subjects	L	T	P	Total	Credit
1.	EE 3001	Electric Power Transmission & Distribution	3	1	0	4	4
2.	EE 3003	Linear Control Theory	3	1	0	4	4
3.	EE 3005	Power Electronics	3	1	0	4	4
4.	EC 3003	Microprocessors & Microcontrollers	3	1	0	4	4
5.	BM5103	Organization Behaviour	**2**	**0**	**0**	**2**	**2**
6.	BM5503	Quantitative Methods	**2**	**0**	**0**	**2**	**2**
Total Theory						**20**	**20**
	Practical:						
1.	EE 3091	Power Electronics Lab	0	0	3	3	2
2.	EE 3093	Microprocessors Lab	0	0	3	3	2
3.	EE 3095	Control System Lab	0	0	3	3	2
Sessional							
1.	TP 3081	CAT-I	0	0	2	2	1
Total Practical & Sessional						**11**	**7**
Total of Semester						**31**	**27**

SEMESTER-VI

Theory

Sl. No.	Subject Code	Subjects	L	T	P	Total	Credit
1.	EE 3002	Power Systems Operation & Control	3	1	0	4	4
2.	EE 3004	Electromagnetic Field	3	0	0	3	3
3.	EC 3009	Communication Engineering	3	1	0	4	4
4.	EC 3008	Introduction to Digital Signal Processing	3	1	0	4	4
5.		Department Elective-I / Open Elective	3	0	0	3	3
6.	BM 5301	Marketing Management-I	2	0	0	2	2
7.	BM 5302	Marketing Management-I	2	0	0	2	2
Total Theory						**22**	**22**
Practical							
1.	EE 3092	Power Systems Lab	0	0	3	3	2
Sessional:							
1.	EE 3082	Electrical Machine Design	0	0	3	3	2
2.	TP 3082	CAT-II	0	0	2	2	1
Total Practical & Sessional						**8**	**5**
Total of Semester						**30**	**27**

SEMESTER-VII

Theory

Sl. No.	Subject Code	Subjects	L	T	P	Total	Credit
1.	EE 4001	Electric Drives	3	1	0	4	4
2.	EE 4003	Switch Gear and Protection	3	0	0	3	3
3.	EE 4005	Renewable Energy Systems	3	0	0	3	3
4.		Department Elective-II / Open Elective	3	0	0	3	3
5.	BM5203	Corporate Finance	3	1	0	4	4
Total Theory						**17**	**17**
Practical:							
1.	EE 4091	Electric Drives Lab	0	0	3	3	2
Sessional:							
1.	EE 4081	Project Preparation	0	0	6	6	3
2.	EE 4083	Practical Training	-	-	-	-	2
3.	EE 4085	Power System Design	0	0	3	3	2
Total Practical & Sessional						**12**	**9**
Total of Semester						**29**	**26**

SEMESTER-VIII

Theory

Sl. No.	Subject Code	Subjects	L	T	P	Total	Credit
1.	EL 4001	Industrial Automation & Control	3	0	0	3	3
2.		Department Elective- III	3	0	0	3	3
3.	BM 5601	Information Technology for Managers	2	0	0	2	2
4.	BM 5602	Enterprise Information System	2	0	0	2	2
Total Theory						**10**	**10**
Sessional:							
1.	EE 4082	Project	0	0	9	9	5
2.	EE 4084	Seminar	0	0	3	3	2
3.	EE 4086	Comprehensive Viva	-	-	-	-	2
Total Sessional						**12**	**9**
Total of Semester						**22**	**19**

* **On - the - Job Training (OJT) of 20 Credits is to be covered in the Summer Term after 8th Semester.**

SEMESTER-IX

Theory

Sl. No.	Subject Code	Subjects	L	T	P	Total	Credit
1.	BM5801	Production and Operation Management	3	1	0	4	4
2.	BM6703	Business Ethics and Corporate Social Responsibility	2	0	0	2	2
3.	BM6702	Legal Aspect of Business	2	0	0	2	2
4.	BM5502	Business Research Methodology	2	0	0	2	2
5.	BM5102	Human Resource Management	2	0	0	2	2
6.	BM6701	Strategic Management	4	0	0	4	4
7.		MBA Elective-I	2	0	0	2	2
8.		MBA Elective-II	2	0	0	2	2
9.		MBA Elective-III	2	0	0	2	2
10.		MBA Elective-IV	2	0	0	2	2
Total Theory						**24**	**24**
Total of Semester						**24**	**24**

SEMESTER-X

Theory

Sl. No.	Subject Code	Subjects	L	T	P	Total	Credit
1.		MBA Elective-5	2	0	0	2	2
2.		MBA Elective-6	2	0	0	2	2
3.		MBA Elective-7	2	0	0	2	2
4.		MBA Elective-8	2	0	0	2	2
5.		MBA Elective-9	2	0	0	2	2
6.		MBA Elective-10	2	0	0	2	2
7.		MBA Elective-11	2	0	0	2	2
8.		MBA Elective-12	2	0	0	2	2
9.		MBA Elective-13	2	0	0	2	2
10.		MBA Elective-14	2	0	0	2	2
11.		MBA Elective-15	2	0	0	2	2
12.		MBA Elective-16	2	0	0	2	2
Total Theory						**24**	**24**

LIST OF DEPARTMENT ELECTIVES

Department Elective - I

Sl.No.	Subject Code	Subject Name	Credit
1.	CS 3052	RDBMS	3
2.	EE 3022	Power Apparatus Design	3
3.	EE 3024	Principles of Industrial Instrumentation	3
4.	EE 3026	Electrical Engineering Material	3

Department Elective - II

Sl.No.	Subject Code	Subject Name	Credit
1.	EE4021	Power Station Engineering	3
2.	EE 4023	Installation, Commissioning and Maintenance of Electrical Equipments	3
3.	EE 4033	Modern Control Theory	3
4.	EE 4035	Utilization of Electric Power	3

Department Elective - III

Sl.No.	Subject Code	Subject Name	Credit
1.	EE 4032	Power Quality	3
2.	EE 4036	High Voltage Engineering	3
3.	EE 4040	Electric Traction and Drive	3
4.	EE6126	Advanced Power System Protection	3

COURSE STRUCTURE FOR B.TECH IN ELECTRONICS & ELECTRICAL ENGINEERING AND MBA
SEMESTER-III

| **Theory** | | | | | | | |
Sl.No	**Subject Code**	**Course Title**	**L**	**T**	**P**	**Total**	**Credits**
1.	MA2001	Mathematics-III	3	1	0	4	4
2.	EC2007	Analog Electronics	3	1	0	4	4
3.	EE2003	Network Analysis	3	1	0	4	4
4.	EC2003	Signals & Systems	3	0	0	3	3
5.	EE2001	Electrical Machine – I	3	1	0	4	4
6.	CS2003	Data Structure & Java Programming	3	1	0	4	4
7.	BM5201	Financial Accounting	2	0	0	2	2
8.	BM5202	Cost and Management Accounting	2	0	0	2	2
Total of Theory						**27**	**27**
Practical							
9.	EC2091	Electronic Circuits & Networks Lab				3	2
10.	CS2093	Data Structure & Programming Lab				3	2
Sessional							
11.	HS2081	Language Lab				2	1
Total of Practical & Sessional						**8**	**5**
Semester Total						**35**	**32**

SEMESTER-IV

| **Theory** | | | | | | | |
Sl.No	**Subject Code**	**Course Title**	**L**	**T**	**P**	**Total**	**Credits**
1.	MA2002	Mathematics – IV	3	1	0	4	4
2.	EC2009	Digital Electronic Circuits	3	1	0	4	4
3.	EE2002	Electrical Machine – II	3	1	0	4	4
4.	EC2008	Measurements & Instrumentation	3	1	0	4	4
5.	CH2001	Environmental Science	2	0	0	2	2
6.	BM5403	Managerial Economics	3	1	0	4	4
Total of Theory						**22**	**22**
Practical							
7.	EC2096	Digital & Linear IC Lab	0	0	3	3	2
8.	EC2098	Measurements & Instrumentation Lab	0	0	3	3	2
9.	EE2096	Electrical Machine Lab	0	0	3	3	2
Total of Practical						**9**	**6**
Semester Total						**31**	**28**

SEMESTER-V

Theory

Sl.No	Subject Code	Course Title	L	T	P	Total	Credits
1.	EC3001	Electromagnetic Theory	3	1	0	4	4
2.	EE3001	Electric Power Transmission & Distribution	3	1	0	4	4
3.	EC3003	Microprocessors & Microcontrollers	3	1	0	4	4
4.	EL3001	Control Systems	3	1	0	4	4
5.	EC3007	Digital Signal Processing	3	1	0	4	4
6.	BM5103	Organizational Behavior	2	0	0	2	2
7.	BM5503	Quantitative Methods	2	0	0	2	2
Total of Theory						**24**	**24**
Practical							
8.	EL3091	Control Systems Lab	0	0	3	3	2
9.	EC3095	DSP Lab	0	0	3	3	2
10.	EE3093	Microprocessor & Microcontroller Lab	0	0	3	3	2
Sessional							
11.	TP3081	C A T - I	2	0	0	2	1
Total of Practical & Sessional						**11**	**7**
Semester Total						**35**	**31**

SEMESTER-VI

Theory

Sl.No	Subject Code	Course Title	L	T	P	Total	Credits
1.	EC3009	Communication Engg	3	1	0	4	4
2.	EE3005	Power Electronics	3	1	0	4	4
3.	EE3002	Power System Operation & Control	3	1	0	4	4
4.		Dept. Elective – I / Open Elective	3	0	0	3	3
5.	BM5301	Marketing Management – I	**2**	**0**	**0**	**2**	**2**
6.	BM5302	Marketing Management – II	**2**	**0**	**0**	**2**	**2**
Total of Theory						**19**	**19**
Practical							
7.	EC3091	Communication Engg Lab	0	0	3	3	2
8.	EE3091	Power Electronics Lab	0	0	3	3	2
9.	EE3092	Power Systems Lab	0	0	3	3	2
Sessional							
10.	TP3082	C A T - II	0	0	2	2	1
Total of Practical & Sessionals						**11**	**7**
Semester Total						**30**	**26**

SEMESTER-VII

Theory

Sl.No	Subject Code	Course Title	L	T	P	Total	Credits
1.	EE4001	Electric Drives	3	1	0	4	4
2.	EE4003	Switch Gear & Protection	3	0	0	3	3
3.	EL4001	Industrial Automation & Control	3	0	0	3	3
4.	BM5203	Corporate Finance	3	1	0	4	4
5.		Dept. Elective – II	3	0	0	3	3
Total of Theory						**17**	**17**
Practical							
1.	EE4091	Electric Drives Lab	0	0	3	3	2
Sessional							
1.	EE4081	Power System Design	0	0	3	3	2
2.	EL4081	Project Preparation				6	3
3.	EL4083	Practical Training	-	-	-	-	2
Total of Practical & Sessional						**12**	**9**
Semester Total						**29**	**26**

SEMESTER-VIII

Theory

Sl.No	Subject Code	Course Title	L	T	P	Total	Credits
1.		Dept. Elective – III / Open Elective	3	0	0	3	3
2.	BM5601	Information Technology for Managers	2	0	0	2	2
3.	BM5602	Enterprise Information System	2	0	0	2	2
Total of Theory						**7**	**7**
Sessional							
1.	EL4082	Project	0	0	9	9	5
2.	EL4084	Seminar	0	0	3	3	2
3.	EL4086	General Viva Voce	-	-	-	-	2
Total of Sessional						**12**	**9**
Semester Total						**19**	**16**

* **On - the - Job Training (OJT) of 20 Credits is to be covered in the Summer Term after 8th Semester.**

SEMESTER-IX

Theory

Sl.No	Subject Code	Course Title	L	T	P	Total	Credits
1.	BM5801	Production and Operation Management	3	1	0	4	4
2.	BM6703	Business Ethics and Corporate Social Responsibility	2	0	0	2	2
3.	BM6702	Legal Aspect of Business	2	0	0	2	2
4.	BM5502	Business Research Methodology	2	0	0	2	2
5.	BM5102	Human Resource Management	2	0	0	2	2
6.	BM6701	Strategic Management	4	0	0	4	4
7.		MBA Elective - 1	2	0	0	2	2
8.		MBA Elective - 2	2	0	0	2	2
9.		MBA Elective - 3	2	0	0	2	2
10.		MBA Elective - 4	2	0	0	2	2
Total of Theory						**24**	**24**
Semester Total						**24**	**24**

SEMESTER-X

Theory

Sl.No	Subject Code	Course Title	L	T	P	Total	Credits
1.		MBA Elective - 5	2	0	0	2	2
2.		MBA Elective - 6	2	0	0	2	2
3.		MBA Elective - 7	2	0	0	2	2
4.		MBA Elective - 8	2	0	0	2	2
5.		MBA Elective - 9	2	0	0	2	2
6.		MBA Elective - 10	2	0	0	2	2
7.		MBA Elective - 11	2	0	0	2	2
8.		MBA Elective - 12	2	0	0	2	2
9.		MBA Elective - 13	2	0	0	2	2
10.		MBA Elective - 14	2	0	0	2	2
11.		MBA Elective - 15	2	0	0	2	2
12.		MBA Elective - 16	2	0	0	2	2
Total of Theory						**24**	**24**

LIST OF DEPARTMENT ELECTIVES

Department Elective - I

Sl.No.	Subject Code	Subject Name	Credit
1.	EL3002	Advanced Control Systems	3
2.	EC3004	VLSI Design	3
3.	EC3024	Embedded Systems	3
4.	CS3054	Computer Architecture	3

Department Elective - II

Sl.No.	Subject Code	Subject Name	Credit
1.	EE4021	Power Station Engineering	3
2.	EC4023	Adaptive Systems & Signal Processing	3
3.	EE4005	Renewable Energy Systems	3
4.	EE6121	Computer Application in Power Systems	3

Department Elective - III

Sl.No.	Subject Code	Subject Name	Credit
1.	EE4036	High Voltage Engineering	3
2.	EE4034	Advanced Power Electronics	3
3.	EC6108	Digital Image Processing	3
4.	EI4038	Power Plant Instrumentation	3
5.	EC4048	Mobile Communication Engineering	3

COURSE STRUCTURE FOR B.TECH IN ELECTRONICS & TELECOMMUNICATION ENGINEERING AND MBA
SEMESTER-III

Theory							
Sl. No	**Subject Code**	**Course Title**	**L**	**T**	**P**	**Total**	**Credits**
1.	MA2001	Mathematics – III	3	1	0	4	4
2.	EC2001	Analog Electronic Circuits – I	3	1	0	4	4
3.	EC2003	Signals & Systems	3	0	0	3	3
4.	EE2003	Network Analysis	3	1	0	4	4
5.	EC2005	Semiconductor Devices	3	0	0	3	3
6.	CS2003	Data Structure & Java Programming	3	1	0	4	4
7.	BM5201	Financial Accounting	2	0	0	2	2
8.	BM5202	Cost and Management Accounting	2	0	0	2	2
Total of Theory						**26**	**26**
Practical							
9.	EC2091	Electronic Circuits and Networks Lab	0	0	3	3	2
10.	CS2093	Data Structure & Programming Lab	0	0	3	3	2
Sessional							
11	HS2081	Language Lab	0	0	2	2	1
Total of Practical & Sessional						**8**	**5**
Semester Total						**34**	**31**

SEMESTER-IV

Theory							
Sl. No	**Subject Code**	**Course Title**	**L**	**T**	**P**	**Total**	**Credits**
1.	MA2002	Mathematics – IV	3	1	0	4	4
2.	EC2002	Analog Electronic Circuits – II	3	1	0	4	4
3.	EC2009	Digital Electronic Circuits	3	1	0	4	4
4.	EC2006	Analog Communication Techniques	3	1	0	4	4
5.	EC2008	Measurements and Instrumentation	3	1	0	4	4
6.	CH2001	Environmental Science	2	0	0	2	2
7.	BM5403	Managerial Economics	3	1	0	4	4
Total of Theory						**26**	**26**
Practical							
7.	EC2092	Analog Integrated Circuits Lab	0	0	3	3	2
8.	EC2093	Digital Electronic Circuits Lab	0	0	3	3	2
Total of Practical						**6**	**4**
Semester Total						**32**	**30**

SEMESTER-V

Theory

Sl. No	Subject Code	Course Title	L	T	P	Total	Credits
1.	EC3001	Electromagnetic Theory	3	1	0	4	4
2.	EC3003	Microprocessors & Microcontrollers	3	1	0	4	4
3.	EL3001	Control Systems	3	1	0	4	4
4.	EC3005	Digital Communication Techniques	3	1	0	4	4
5.	BM5103	Organizational Behavior	2	0	0	2	2
6.	BM5503	Quantitative Methods	2	0	0	2	2
Total of Theory						**20**	**20**
Practical							
6.	EC3091	Communication Engineering Lab	0	0	3	3	2
7.	EC3093	Microprocessor & Microcontroller Lab	0	0	3	3	2
8.	EI3093	Control & Instrumentation Lab	0	0	3	3	2
Sessional							
9.	TP3081	C A T - I	2	0	0	2	1
Total of Practical & Sessional						**11**	**7**
Semester Total						**31**	**27**

SEMESTER-VI

Theory

Sl. No	Subject Code	Course Title	L	T	P	Total	Credits
1.	EC3002	Antenna & Wave Propagation	3	1	0	4	4
2.	EC3004	VLSI Design	3	0	0	3	3
3.	EC3007	Digital Signal Processing	3	1	0	4	4
4.		Dept. Elective – I / Open Elective	3	0	0	3	3
5.	EC3006	Data Communication & Networking	3	1	0	4	4
6.	BM5301	Marketing Management – I	2	0	0	2	2
7.	BM5302	Marketing Management – II	2	0	0	2	2
Total of Theory						**22**	**22**
Practical							
8.	EC3094	VLSI Lab	0	0	3	3	2
9.	EC3095	DSP Lab	0	0	3	3	2
10.	EC3096	Electronic System Design & Simulation Lab	0	0	3	3	2
Sessional							
11.	TP3082	C A T - II	2	0	0	2	1
Total of Practical & Sessional						**11**	**7**
Semester Total						**33**	**29**

SEMESTER-VII

Theory

Sl. No	Subject Code	Course Title	L	T	P	Total	Credits
1.	EC4001	RF & Microwave Engg.	3	1	0	4	4
2.	EC4003	Wireless & Mobile Communication Engg.	3	1	0	4	4
3.		Dept. Elective – II	3	0	0	3	3
4.	BM5203	Corporate Finance	3	1	0	4	4
Total of Theory						**15**	**15**
Practical							
5.	EC4091	Microwave & Antenna Lab	0	0	3	3	2
6.	EC4093	Wireless Communication & Networking Lab	0	0	3	3	2
Sessional							
7.	EC4081	Project Preparation	0	0	6	6	3
8.	EC4083	Practical Training	-	-	-	-	2
Total of Practical &Sessional						**6**	**5**
Semester Total						**27**	**24**

SEMESTER-VIII

Theory

Sl. No	Subject Code	Course Title	L	T	P	Total	Credits
1.		Dept. Elective – III	3	0	0	3	3
2.		Dept. Elective – IV / Open Elective	3	0	0	3	3
3.	BM5601	Information Technology for Managers	2	0	0	2	2
4.	BM5602	Enterprise Information System	2	0	0	2	2
Total of Theory						**10**	**10**
Sessional							
5.	EC4082	Project	0	0	9	9	5
6.	EC4084	Seminar	0	0	3	3	2
7.	EC4086	General Viva-Voce	-	-	-	-	2
Total of Sessional						**12**	**9**
Semester Total						**22**	**19**

* **On - the - Job Training (OJT) of 20 Credits is to be covered in the Summer Term after 8th Semester.**

SEMESTER-IX

Theory

Sl. No	Subject Code	Course Title	L	T	P	Total	Credits
1.	BM5801	Production and Operation Management	3	1	0	4	4
2.	BM6703	Business Ethics and Corporate Social Responsibility	2	0	0	2	2
3.	BM6702	Legal Aspect of Business	2	0	0	2	2
4.	BM5502	Business Research Methods	2	0	0	2	2
5.	BM5102	Human Resource Management	2	0	0	2	2
6.	BM6701	Strategic Management	4	0	0	4	4
7.		MBA Elective - 1	2	0	0	2	2
8.		MBA Elective - 2	2	0	0	2	2
9.		MBA Elective - 3	2	0	0	2	2
10.		MBA Elective - 4	2	0	0	2	2
Total of Theory						**24**	**24**
Semester Total						**24**	**24**

SEMESTER-X

Theory

Sl. No	Subject Code	Course Title	L	T	P	Total	Credits
1.		MBA Elective - 5	2	0	0	2	2
2.		MBA Elective - 6	2	0	0	2	2
3.		MBA Elective - 7	2	0	0	2	2
4.		MBA Elective - 8	2	0	0	2	2
5.		MBA Elective - 9	2	0	0	2	2
6.		MBA Elective - 10	2	0	0	2	2
7.		MBA Elective - 11	2	0	0	2	2
8.		MBA Elective - 12	2	0	0	2	2
9.		MBA Elective - 13	2	0	0	2	2
10.		MBA Elective - 14	2	0	0	2	2
11.		MBA Elective - 15	2	0	0	2	2
12.		MBA Elective - 16	2	0	0	2	2
Total of Theory						**24**	**24**

LIST OF DEPARTMENT ELECTIVES

Department Elective - I

Sl.No.	Subject Code	Subject Name	Credit
1.	EC3022	Advanced Microprocessors	3
2.	EC3024	Embedded Systems	3
3.	EC3026	Computational Intelligence	3
4.	EE3028	Power Electronics Circuits	3

Department Elective - II

Sl.No.	Subject Code	Subject Name	Credit
1.	EL4001	Industrial Automation & Control	3
2.	EC4021	Radar & Television Engg	3
3.	EC4023	Adaptive Systems & Signal Processing	3
4.	EI4025	Principle of Analytical Instrumentation	3

Department Elective - III

Sl.No.	Subject Code	Subject Name	Credit
1.	EC4025	Optical & Satellite Communication	3
2.	CS3032	RDBMS	3
3.	EC6102	Telecom Switching, Network & Protocol	3
4.	EC6224	Low Power VLSI Design	3

Department Elective - IV

Sl.No.	Subject Code	Subject Name	Credit
1.	EC6108	Digital Image Processing	3
2.	EC4044	Information Theory & Coding	3
3.	EC6112	Communication & Network Security	3
4.	EC6128	Wireless Sensor Network	3

COURSE STRUCTURE FOR B.TECH IN MECHANICAL ENGINEERING AND MBA

SEMESTER-III

Theory

Sl No.	Course Code	Subject	L	T	P	Total	Credit
1	ME2001	Engineering Thermodynamics	3	1	0	4	4
2	ME2003	Fluid Mechanics	3	0	0	3	3
3	ME2005	Mechanics of Solids	3	1	0	4	4
4	ME2007	Material Science and Engineering	3	0	0	3	3
5	ME2009	Kinematic & Kinetics of Machines	3	0	0	3	3
6	MA2001	Mathematics-III	3	1	0	4	4
7	BM5201	Financial Accounting	2	0	0	2	2
8	BM5202	Cost and Management Accounting	2	0	0	2	2
Total of Theory						**25**	**25**
Practical							
1	ME2091	Fluid Mechanics Lab	0	0	3	3	2
2	ME2093	Material Testing Lab	0	0	3	3	2
3	ME2095	Kinematics Lab	0	0	3	3	2
Sessional							
1	ME2081	Machine Drawing	0	0	3	3	2
Total of Practical & Sessional						**12**	**8**
Semester Total						**37**	**33**

SEMESTER-IV

Theory

Sl No.	Course Code	Subject	L	T	P	Total	Credit
1	ME2002	Machine Dynamics	3	0	0	3	3
2	ME2004	Heat Transfer	3	1	0	4	4
3	ME2006	Basic Manufacturing Processes	3	0	0	3	3
4	EE2006	Introduction to Electrical Machines and Power Electronics	3	0	0	3	3
5	MA2004	Numerical Methods	3	1	0	4	4
6	CH2001	Environmental Science	2	0	0	2	2
7	BM5403	Manegerial Economics	3	1	0	4	4
Total of Theory						**23**	**23**
Practical							
1	ME2092	Machine Dynamics Lab	0	0	3	3	2
2	ME2094	Heat Trasfer Lab	0	0	3	3	2
3	EE2098	Electrical Machines and Power Electronics Lab	0	0	3	3	2
Sessional							
1	ME2082	Manufacturing Practice	0	0	3	3	2
2	HS2081	Language Lab	0	0	2	2	1
Total of Practical & Sessional						**14**	**9**
Semester Total						**37**	**32**

Theory

Sl No.	Course Code	Subject	L	T	P	Total	Credit
1	ME3001	Fluid Dynamics & Hydraulic Machines	3	1	0	4	4
2	ME3003	Internal Combustion Engines & Gas Turbines	3	0	0	3	3
3	ME3005	Mechanical Measurements and Control	3	0	0	3	3
4	ME3007	Manufacturing Processes and Design	3	0	0	3	3
5	ME3009	Fundamentals of Machine Design	3	0	0	3	3
6	BM5103	Organizational Behaviour	2	0	0	2	2
7	BM5503	Quantitative Methods	2	0	0	2	2
Total of Theory						**20**	**20**
Practical							
1	ME3091	Hydraulic Machines Lab	0	0	3	3	2
2	ME3093	Measurements and Instrumentation Lab	0	0	3	3	2
Sessional							
1	ME3081	Machine Design	0	0	3	3	2
2	ME3083	CAD Lab	0	0	3	3	2
3	TP3081	CAT-I	0	0	2	2	1
Total of Practical & Sessional						**14**	**9**
Semester Total						**34**	**29**

SEMESTER-VI

Theory

Sl No.	Course Code	Subject	L	T	P	Total	Credit
1	ME3002	Refrigeration & Air Conditioning	3	0	0	3	3
2	ME3004	Metal Cutting & Cutting Tool Design	3	1	0	4	4
3	ME3006	Metrology, Quality Control and Reliability	3	0	0	3	3
4	ME3008	Industrial Engineering & Management	3	0	0	3	3
5	ME3012	Design of Machine Elements	3	0	0	3	3
6	BM5301	Marketing Management - I	2	0	0	2	2
7	BM5302	Marketing Management - II	2	0	0	2	2
Total of Theory						**20**	**20**
Practical							
1	ME3092	IC Engines & RAC Lab	0	0	3	3	2
2	ME3094	Computational Technique Practice lab	0	0	3	3	2
Sessional							
1	ME3082	Metal Cutting & Cutting Tool Design	0	0	3	3	2
2	ME3084	Computer aided design and Analysis	0	0	3	3	2
3	TP3082	CAT-II	0	0	2	2	1
Total of Practical & Sessional						**14**	**9**
Semester Total						**34**	**29**

SEMESTER-VII

Theory

Sl No.	Course Code	Subject	L	T	P	Total	Credit
1	ME4001	Advanced Manufacturing Processes	3	0	0	3	3
2		Department Elective-I	3	0	0	3	3
3		Department Elective-II/Open Elective	3	0	0	3	3
4	BM5203	Corporate Finance	3	1	0	4	4
Total of Theory						**13**	**13**
Practical							
1	ME4091	Advanced Manufacturing Process Lab	0	0	3	3	2
Sessional							
1	ME4081	Project Preparation	0	0	6	6	3
2	ME4083	Practical Training	-	-	-	-	2
Total of Practical & Sessional						**9**	**7**
Semester Total						**22**	**20**

SEMESTER-VIII

Theory

Sl No.	Course Code	Subject	L	T	P	Total	Credit
1		Department Elective-III/ Open Elective	3	0	0	3	3
2	BM5601	Information Technology for mangers	2	0	0	2	2
3	BM5602	Enterprise Information System	2	0	0	2	2
Total of Theory						**7**	**7**
Sessional							
1	ME4082	Project	0	0	9	9	5
2	ME4084	Seminar	0	0	3	3	2
3	ME4086	Comprehensive Viva	-	-	-	-	2
Total of Sessional						**12**	**9**
Semester Total						**19**	**16**

*　　**On - the - Job Training (OJT) of 20 Credits is to be covered in the Summer Term after 8th Semester.**

SEMESTER-IX

Theory

Sl No.	Course Code	Subject	L	T	P	Total	Credit
1	BM5801	Production and Operation Management	3	1	0	4	4
2	BM6703	Business Ethics and Corporate Social Responsibility	2	0	0	2	2
3	BM6702	Legal Aspects of Business	2	0	0	2	2
4	BM5502	Business Research Methodology	2	0	0	2	2
5	BM5102	Human Resource Management	2	0	0	2	2
6	BM6701	Strategic Management	3	1	0	4	4
7		MBA Elective-1	2	0	0	2	2
8		MBA Elective-2	2	0	0	2	2
9		MBA Elective-3	2	0	0	2	2
10		MBA Elective-4	2	0	0	2	2
Total of Theory						**24**	**24**
Semester Total						**24**	**24**

SEMESTER-X

Theory

Sl No.	Course Code	Subject	L	T	P	Total	Credit
Sessional							
1		MBA Elective-5	2	0	0	2	2
2		MBA Elective-6	2	0	0	2	2
3		MBA Elective-7	2	0	0	2	2
4		MBA Elective-8	2	0	0	2	2
5		MBA Elective-9	2	0	0	2	2
6		MBA Elective-10	2	0	0	2	2
7		MBA Elective-11	2	0	0	2	2
8		MBA Elective-12	2	0	0	2	2
9		MBA Elective-13	2	0	0	2	2
10		MBA Elective-14	2	0	0	2	2
11		MBA Elective-15	2	0	0	2	2
12		MBA Elective-16	2	0	0	2	2
Total of Theory						**24**	**24**

LIST OF DEPARTMENT ELECTIVES

Department Elective - I

Sl.No.	Subject Code	Subject Name	Credit
1.	ME4021	Automobile Engineering	3
2.	ME4023	Gas Dynamics & Jet Propulsion	3
3.	ME4025	Computational Fluid Dynamics	3
4.	ME4027	Micro and Nano Fluidics	3
5.	ME4029	Alternative Fuels and Renewable Energy	3

Department Elective - II

Sl.No.	Subject Code	Subject Name	Credit
1.	ME4041	Mechanical Vibration and Noise Engineering	3
2.	ME4043	Introduction to Composite Materials	3
3.	ME4045	Introduction to Finite Element Method	3
4.	ME4047	Tribology	3
5.	ME4049	Advanced Mechanics of Solids	3

Department Elective - III

Sl.No.	Subject Code	Subject Name	Credit
1.	ME4042	Machine Maintenance & Condition Monitoring	3
2.	ME4044	Rapid Prototyping	3
3.	ME4046	Artificial Inteligence Techniques	3
4.	ME4048	Intellectual Property Right	3
5.	ME4052	Nano Technology	3

COURSE STRUCTURE FOR DUAL DEGREE IN SCHOOL OF MANAGEMENT

MBA - CORE AND ELECTIVE COURSES

Sl. No	Code	Course	Credits	Core / Elective
1	BM5403	Managerial Economics	4	Core
2	BM5503	Quantitative Methods	2	Core
3	BM5502	Business Research Methodology	2	Core
4	BM5201	Financial Accounting	2	Core
5	BM5202	Cost and Management Accounting	2	Core
6	BM5203	Corporate Finance	4	Core
7	BM5103	Organizational Behavior	2	Core
8	BM5102	Human Resource Management	2	Core
9	BM5601	Information Technology for Managers	2	Core
10	BM5602	Enterprise Information Systems	2	Core
11	BM5301	Marketing Management - I	2	Core
12	BM5302	Marketing Management - II	2	Core
13	BM6701	Strategic Management	4	Core
15	BM6702	Legal Aspects of Business	2	Core
16	BM6703	Business Ethics and Corporate Social Responsibility	2	Core
17	BM5801	Production and Operations Management	4	Core
18	BM6201	International Financial Management	2	Elective
19	BM6202	Corporate Governance	2	Elective
20	BM6203	Financial Services	2	Elective
21	BM6204	Mergers, Acquisitions and Corporate Restructuring	2	Elective
22	BM6205	Project Finance	2	Elective
23	BM6206	Security Analysis & Portfolio Management	2	Elective
24	BM6207	Derivatives and Risk Management	2	Elective
25	BM6208	Corporate Tax Planning	2	Elective
26	BM6209	Banking Operation & Regulations	2	Elective
27	BM6210	Business Analysis and Valuation	2	Elective
28	BM6211	Management Control Systems	2	Elective
29	BM6212	Infrastructure Development and Financing	2	Elective
30	BM6101	Labour Laws	2	Elective
31	BM6102	Training and Development	2	Elective
32	BM6103	Performance and Compensation Management	2	Elective
33	BM6104	Manpower planning	2	Elective
34	BM6105	Organization Development and Change	2	Elective
35	BM6106	Managing Employee Relations	2	Elective
36	BM6107	Leadership for Corporate Excellence	2	Elective
37	BM6108	Managerial Effectiveness	2	Elective
38	BM6109	Assessment Development Centre	2	Elective
39	BM6110	Recruitment and Selection	2	Elective
40	BM6601	Data Mining and Business Intelligence	2	Elective

41	BM6602	KM and DSS	2	Elective
42	BM6603	Information Security and Risk Management	2	Elective
43	BM6604	Software Project Management	2	Elective
44	BM6605	Information Technology Infrastructure Management	2	Elective
45	BM6606	Planning and Implementing IT Strategies	2	Elective
46	BM6607	ERPS	2	Elective
47	BM6608	Service Oriented Architecture and Web Services	2	Elective
48	BM6609	Cyber Law and Ethics in Information Technology	2	Elective
49	BM6610	E-Business	2	Elective
50	BM6301	Consumer Behavior	2	Elective
51	BM6302	Product & Brand Management	2	Elective
52	BM6303	Services Marketing	2	Elective
53	BM6304	Sales & Distribution Management	2	Elective
54	BM6305	Retail Management	2	Elective
55	BM6306	B2B Marketing	2	Elective
56	BM6307	Real Estate Marketing	2	Elective
57	BM6308	Customer Relationship Management	2	Elective
58	BM6309	Integrated Marketing Communications	2	Elective
59	BM6310	Hospitality & Tourism Marketing	2	Elective
60	BM6311	Marketing Research	2	Elective
61	BM6312	Digital and Social Media Marketing	2	Elective
62	BM6313	Agency and Media Management	2	Elective
63	BM5704	Game Theory	2	Elective
64	BM6891	Fundamentals of Product Lifecycle Management	2	Elective
65	BM6801	Product Lifecycle Management and Product Data Management	2	Elective
66	BM6802	Product Design and Development	2	Elective
67	BM6803	Digital Manufacturing and Virtual Factory	2	Elective
68	BM6804	Customer Response to Manufactured Products	2	Elective
69	BM6805	Enterprise Resource Planning Systems	2	Elective
70	BM6608	Service Oriented Architecture and Web Services	2	Elective
71	BM6807	Total Quality Management	2	Elective
72	BM6808	Supply Chain Management	2	Elective
73	BM6809	Project Management	2	Elective
74	BM6810	Technology Management	2	Elective
75	BM6811	Managing Service Operations	2	Elective
76	BM6812	Innovation and Business Sustainability	2	Elective
77	BM6813	Business by Design	2	Elective

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