

**STUDY & EVALUATION SCHEME**  
**INTEGRATED B.TECH+MBA: CIVIL ENGINEERING**  
**I YEAR: I SEMESTER**

S. NO.	SUBJECT CODE	SUBJECT	HOURS PER WEEK			CREDIT
			L	T	P	
1	----/ BCY1701	Physics / Chemistry	3	1	3	5.5
	BPH1701-CS	Physics (for CS)				
	BPH1701-EC	Physics (for EC)				
	BPH1701-EE	Physics (for EE)				
	BPH1701-CE	Physics (for CE)				
	BPH1701-ME	Physics (for ME)				
2	BMA1001-CS	Mathematics-I (for CS)	3	1	0	4
	BMA1001-EC	Mathematics-I (for EC)				
	BMA1001-EE	Mathematics-I (for EE)				
	BMA1001-CE	Mathematics-I (for CE)				
	BMA1001-ME	Mathematics-I (for ME)				
3	BEE1701/ BCS1701	Basic Electrical Engineering / Programming for Problem Solving	3	1	2	5
4	BME1701/ BME1702	Engineering Graphics and Design / Workshop Practices	1	0	4	3
5	XESX601/ BHU1701	Environmental Science* / English	2/2	0/0	0/2	0/3
		<b>TOTAL</b>	<b>12/12</b>	<b>3/3</b>	<b>9/11</b>	<b>17.5/20.5</b>

\* -Mandatory Non-Credit Course

L - Lecture

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**I YEAR: II SEMESTER**

S. NO.	SUBJECT CODE	SUBJECT	HOURS PER WEEK			CREDIT
			L	T	P	
1	BCY2701/ -----	Chemistry/ Physics	3	1	3	5.5
	BPH2701-CS	Physics (for CS)				
	BPH2701-EC	Physics (for EC)				
	BPH2701-EE	Physics (for EE)				
	BPH2701-CE	Physics (for CE)				
	BPH2701-ME	Physics (for ME)				
2	BMA2001-CS	Mathematics-II (for CS)	3	1	0	4
	BMA2001-EC	Mathematics-II (for EC)				
	BMA2001-EE	Mathematics-II (for EE)				
	BMA2001-CE	Mathematics-II (for CE)				
	BMA2001-ME	Mathematics-II (for ME)				
3	BCS2701/ BEE2701	Programming for Problem Solving / Basic Electrical Engineering	3	1	2	5
4	BME2702/ BME2701	Workshop Practices / Engineering Graphics and Design	1	0	4	3
5	BHU2701/ XESX601	English / Environmental Science*	2/2	0/0	2/0	3/0
		<b>TOTAL</b>	<b>12/12</b>	<b>3/3</b>	<b>11/9</b>	<b>20.5/17.5</b>

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**II YEAR: III SEMESTER**

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
<b>THEORY</b>									
1	BMA3001/ -	Mathematics-III/Science Based Open Elective <sup>1</sup>	3	2	0	40	60	100	4
2	BHU3018/BHU301 9	Organizational Psychology/ Organizational Sociology	2	0	0	40	60	100	2
3	BCE3001	Fundamental of Fluid Mechanics	3	2	0	40	60	100	4
4	BCE3002	Building Material & Construction	3	1	0	40	60	100	3
5	BCE3003	Strength of Material	3	2	0	40	60	100	4
6	BCE3004	Survey	3	0	0	40	60	100	3
<b>PRACTICAL/ TRAINING/PROJECT</b>									
7	BCE3501	Fluid Mechanics Lab	0	0	2	80	20	100	1
8	BCE3502	Building Material Lab	0	0	2	80	20	100	1
9	BCE3503	Building Planning & Drawing Lab	0	0	2	80	20	100	1
10	BCE3504	Survey Lab	0	0	2	80	20	100	1
<b>TOTAL</b>			<b>17</b>	<b>7</b>	<b>8</b>	<b>560</b>	<b>440</b>	<b>1000</b>	<b>24</b>

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**II YEAR: IV SEMESTER**

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
<b>THEORY</b>									
1	--- / BMA4001	Science Based Open Elective <sup>1</sup> / Mathematics-III	3	2	0	40	60	100	4
2	BHU4019/BHU4018	Organizational Sociology/ Organizational Psychology	2	0	0	40	60	100	2
3	BCE4001	Structural Analysis - I	3	2	0	40	60	100	4
4	BCE4002	Hydraulics and Hydraulic Machines	3	2	0	40	60	100	4
5	BCE4003	Geoinformatics	3	1	0	40	60	100	3
6	BCE4004	Engineering Geology	2	1	0	40	60	100	2
<b>PRACTICAL/ TRAINING/PROJECT</b>									
7	BMA4502	Computer Based Statistical & Numerical Techniques Lab	0	0	2	80	20	100	1
8	BCE4501	Structural Analysis Lab	0	0	2	80	20	100	1
9	BCE4502	Hydraulics & Hydraulic Machines Lab	0	0	2	80	20	100	1
10	BCE4503	Geoinformatics Lab	0	0	2	80	20	100	1
<b>TOTAL</b>			<b>16</b>	<b>8</b>	<b>8</b>	<b>560</b>	<b>440</b>	<b>1000</b>	<b>23</b>

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**III YEAR: V SEMESTER**

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
<b>THEORY</b>									
1	BMG5006/ BMG5007	Engineering and Managerial Economics / Principles of Management	3	0	0	40	60	100	3
2	BCE5001	Geotechnical Engineering	3	2	0	40	60	100	4
3	BCE5002	Environmental Engineering – I	3	1	0	40	60	100	3
4	BCE5003	Structural Analysis - II	3	2	0	40	60	100	4
5	BCE5004	Design of Concrete Structures – I	3	2	0	40	60	100	4
6	BCE5005	Principles of Town Planning & Architecture	2	1	0	40	60	100	2
<b>PRACTICAL/ TRAINING/PROJECT</b>									
7	BCE5501	Geotechnical Engineering Lab	0	0	2	80	20	100	1
8	BCE5502	Environmental Engineering Lab	0	0	2	80	20	100	1
9	BCE5503	CAD Lab – I	0	0	2	80	20	100	1
10	BCE5504	Structural Detailing Lab-I	0	0	2	80	20	100	1
11	BCE5505	Survey Camp*	0	0	2	100	-	100	1
<b>TOTAL</b>			<b>17</b>	<b>8</b>	<b>10</b>	<b>660</b>	<b>440</b>	<b>1100</b>	<b>25</b>

\* Year End Activity –Survey Camp

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**III YEAR: VI SEMESTER**

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
<b>THEORY</b>									
1	BMG6006/BMG6007	Engineering and Managerial Economics / Principles of Management	3	0	0	40	60	100	3
2	BCE6001	Design of Concrete Structures – II	3	2	0	40	60	100	4
3	BCE6002	Transportation Engineering – I	3	1	0	40	60	100	3
4	BCE6003	Estimation and Construction Management	3	1	0	40	60	100	3
5	BCE6004	Environmental Engineering – II	3	2	0	40	60	100	4
6	---	Department Elective-I	3	1	0	40	60	100	3
<b>PRACTICAL/ TRAINING/PROJECT</b>									
7	BCE6501	Structural Detailing Lab-II	0	0	2	80	20	100	1
8	BCE6502	Transportation Engineering Lab	0	0	2	80	20	100	1
9	BCE6503	Concrete Lab	0	0	2	80	20	100	1
10	BCE6504	Seminar	0	0	2	100	-	100	1
11	BCE6505	Industrial Visit	-	-	-	100	-	100	1
<b>TOTAL</b>			<b>18</b>	<b>7</b>	<b>8</b>	<b>680</b>	<b>420</b>	<b>1100</b>	<b>25</b>

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**IV YEAR: VII SEMESTER**

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
<b>THEORY</b>									
1	BCE7001	Transportation Engineering – II	3	1	0	40	60	100	3
2	BCE7002	Water Resources Engineering-I	3	2	0	40	60	100	4
3	BCE7003	Design of Steel Structures	3	2	0	40	60	100	4
4	MST7001	Statistics for Decision Making	3	1	0	40	60	100	3
5	MMG7001	Marketing Management-I	3	1	0	40	60	100	3
6	MMG7002	Business Issues	3	1	0	40	60	100	3
<b>PRACTICAL/ TRAINING/PROJECT</b>									
7	BCE7501	CAD Lab – II	0	0	2	80	20	100	1
8	BCE7502	Summer Training (B.Tech level) ***	0	0	2	100	-	100	1
9	MCE7502	Engineering Design Project	0	0	6	100	-	100	3
<b>TOTAL</b>			<b>18</b>	<b>8</b>	<b>10</b>	<b>520</b>	<b>380</b>	<b>900</b>	<b>25</b>

\*\*\*Semester End Activity – Summer Training

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**IV YEAR: VIII SEMESTER**

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
<b>THEORY</b>									
1	BCE8001	Water Resources Engineering-II	3	2	0	40	60	100	4
2	MMG8001	Research Methodology	3	1	0	40	60	100	3
3	MMG8002	Human Resource Management	3	1	0	40	60	100	3
4	MCM8001	Financial Management	3	1	0	40	60	100	3
5	MMG8003	Marketing Management -II	3	1	0	40	60	100	3
6	MMG8004	Production and Operations Management	3	1	0	40	60	100	3
<b>PRACTICAL/TRANING/PROJECT</b>									
7	MMG8501	Computer Statistical Tool (SPSS )	-	-	4	80	20	100	2
8	MCE8502	Integrated Project Part-I	0	0	4	80	20	100	2
<b>TOTAL</b>			<b>18</b>	<b>7</b>	<b>8</b>	<b>400</b>	<b>400</b>	<b>800</b>	<b>23</b>

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**V YEAR: IX SEMESTER**

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
<b>THEORY</b>									
1	MCS9001	Management Information Systems & Internet Technologies	3	1	-	40	60	100	3
2	MMG9001	Corporate Governance & Business Ethics	3	1	-	40	60	100	3
3	MMG9002	Entrepreneurship	3	1	-	40	60	100	3
4	MCM9001	Accountancy- Foundation Course	3	1	-	40	60	100	3
5	MMG9003	Organizational Behavior, Leadership and Team work	3	1	-	40	60	100	3
6	---	Specialization-1: Paper 1	3	1	-	40	60	100	3
7	---	Specialization-1: Paper 2	3	1	-	40	60	100	3
<b>PRACTICAL/TRAINING/PROJECT</b>									
8	MCE9503	Integrated Project Part-II	-	-	4	80	20	100	4
9	MCE9504	Summer Training - Project Report	0	0	2	100	-	100	1
<b>TOTAL</b>			<b>21</b>	<b>7</b>	<b>6</b>	<b>460</b>	<b>440</b>	<b>900</b>	<b>26</b>

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**V YEAR: X SEMESTER**

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
<b>THEORY</b>									
1	MMG0001	Legal Aspects of Business	3	1	-	40	60	100	3
2	MMG0002	Business Environment	3	1	-	40	60	100	3
3	MMG0003	Strategic Management	3	1	-	40	60	100	3
4	---	Specialization-1: Paper 3	3	1	-	40	60	100	3
5	---	Specialization-1: Paper 4	3	1	-	40	60	100	3
<b>PRACTICAL/TRAINING/PROJECT</b>									
6	MMG0501	Entrepreneurship Lab- (Launch a new business- micro project)	0	0	2	80	20	100	2
7	MCE0503	Integrated Project – Part 3	0	0	4	80	20	100	4
8	MCE0502	Comprehensive Viva	0	0	0	100	0	100	2
<b>TOTAL</b>			<b>15</b>	<b>5</b>	<b>6</b>	<b>460</b>	<b>340</b>	<b>800</b>	<b>23</b>

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**LIST OF ELECTIVES**

**Departmental Electives (B.Tech)**

**Science Based Open Electives**

<b>S. No.</b>	<b>Subject Code</b>	<b>Subject Name</b>	<b>Semester</b>
1	BCY3301 / BCY4301	Industrial Chemical & Environment	III /IV
2	BCY3302 / BCY4302	Polymer Technology	III /IV
3	BMA3301 / BMA4301	Discrete Mathematics	III /IV
4	BST3301 / BST4301	Statistical & Numerical Analysis	III /IV
5	BPH3301 / BPH4301	Nano Science	III /IV
6	BPH3302 / BPH4302	Space Science	III /IV

**Department Elective-I**

<b>S. No.</b>	<b>Subject Code</b>	<b>Subject Name</b>	<b>Semester</b>
1	BCE6101	Advanced Foundation Design	VI
2	BCE6102	Environmental Management for Industries	VI
3	BCE6103	Transportation System and Planning	VI
4	BCE6104	Application of GIS and R S in Environmental Engineering	VI

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**SPECIALIZATION: I**

S. No.	Subject Code	Subject	Semester
<b>Specialization Group : Marketing</b>			
1	MMG9001-MK	Sales and Distribution Management	IX
2	MMG9002-MK	Marketing of Services	IX
3	MMG0001-MK	Consumer Behavior & Customer Relationship Marketing	X
4	MMG0002-MK	Retailing/ Mall Management	X

<b>Specialization Group : Finance</b>			
1	MCM9001-FM	Financial Institutions and Services	IX
2	MCM9002-FM	Security Analysis and Portfolio Management	IX
3	MCM0001-FM	Taxation & Tax Planning	X
4	MCM0002-FM	Financial Derivatives	X

<b>Specialization Group : Human Resource</b>			
1	MMG9001-HR	Employee Relations and Industrial Law	IX
2	MMG9002-HR	Performance Appraisal and Management	IX
3	MMG0001-HR	Managing Change in Organizations	X
4	MMG0002-HR	Human Resource Planning	X

<b>Specialization Group : Operations Management</b>			
1	MMG9001-OM	Project Management	IX
2	MMG9002-OM	Production Planning and Control	IX
3	MMG0001-OM	Operations Strategy (TQM, Environment Safety etc.)	X
4	MMG0002-OM	Supply Chain Modeling	X

<b>Specialization Group : Information Technology</b>			
1	MCS9001-IT	ERP Systems: Technology Planning & Implementation	IX
2	MCS9002-IT	Software Project Management	IX
3	MCS0001-IT	Network Application & Management	X
4	MCS0002-IT	E-Commerce Technology	X

<b>Specialization Group: International Business</b>			
1	MMG9001-IB	International Marketing Management	IX
2	MMG9002-IB	International Financial Management	IX
3	MMG0001-IB	International Human Resource Management	X
4	MMG0002-IB	Export Management & Documentation	X