

## B. Planning

### UG Program Structure [B. Planning] Structure [M] Group

w.e.f AY 2019-20 and Applicable for batches admitted from AY 2019-20 to 2022-23

[M- Group: Mechanical, Civil, Metallurgy & Material Science, Production S/W]

#### List of Abbreviations:

Abbreviation	Title	No of courses	No of courses (Planning)	Credits	Credits (Planning)	% of Credits	% of Credits (Planning)
BSC	Basic Science Course	9	0	27	0	16.3	0
ESC	Engineering Science Course	5	2	19	6	11.4	3.61
MLC	Mandatory Learning Course	4	4	0	0	0	0
SLC	Self Learning Course	2	2	6 (Scheme A) 4 (Scheme B)	2	3.6	1.20
HSMC	Humanities/Social Sciences/Management Course	6	6	8	8	4.8	4.82
LLC	Liberal Learning Course	1	1	1	1	0.6	0.6
SBC	Skill Based Course	8	4	15 (Scheme A) 17 (Scheme B)	20	9.0	12.05
IFC	Interdisciplinary Foundation Course	2	3	4	0	0	0
IOC	Interdisciplinary Open Course	3	0	6	0	3.6	0
DEC	Department Elective Course	2	3	6	9	3.6	5.42
PCC	Program Core Course	19	27	56	90	36.3	54.22
LC	Laboratory Course	19	8	18	30	10.8	18.08
					166		100

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**[M- Group: Mechanical, Civil, Metallurgy & Material Science, Production S/W]**

#### Semester I [M-Group]

Sr. No.	Course Type	Course Code	Course Name	Teaching Scheme			Credits
				L	T	P	
1	PCC1	PL-19001	Fundamentals of Urban and Regional Planning	3	0	0	3
2	PCC2	PL-19002	Demography and Urbanization	3	0	0	3
3	PCC3	PL-19003	Evolution of Aesthetics, Culture and Technology	3	0	0	3
4	PCC4	PL-19011	Building Materials and Construction Technology	3	0	0	3
5	LC1	PL-19004	Planning and Design Studio - I (Graphics and Presentation techniques)	0	0	10	4
6	ESC1	MA-19004	Statistical Techniques and Applications	2	1	0	3
				14	1	10	19
<b>Total Academic Engagement and Credits</b>				<b>25</b>			<b>19</b>

#### Semester II [M-Group]

Sr. No.	Course Type	Course Code	Course Name	Teaching Scheme			Credits
				L	T	P	
1	PCC1	PL-19005	Surveying Techniques	3	0	0	3
2	PCC2	PL-19006	Planning Techniques - I	3	0	0	3
3	PCC3	PL-19007	Infrastructure Planning	3	0	0	3
4	PCC4	PL-19008	Rural Planning and Development	3	0	0	3
5	LC2	PL-19009	Planning and Design Studio - II (Area Appreciation)	0	0	10	4
6	ESC2	MA-19005	Quantitative and Qualitative Techniques in Planning	2	1	0	3
7	LC3	PL-19010	Surveying Lab	0	0	4	2
8	HSMC	HS-19002	Design Thinking	0	0	2	1
9	HSMC	HS-19001	Effective Communication Skills	0	0	2	1
				14	1	18	23
<b>Total Academic Engagement and Credits</b>				<b>33</b>			<b>23</b>

**Physical Education is not added**

**Semester III [M-Group]**

Sr. No.	Course Type	Course Code	Course Name	Teaching Scheme			Credits
				L	T	P	
1	PCC1	PL-20001	Planning Theory - I	3	0	0	3
2	PCC2	PL-20002	Planning Techniques - II	3	0	0	3
3	PCC3	PL-20003	Traffic and Transportation Planning - I	3	0	0	3
4	PCC4	PL-20004	Urban Design and Landscape Planning	3	0	0	3
5	PCC5	PL-20005	Urban Sociology and Geography	3	0	0	3
6	PCC6	PL-20007	Building Estimations and Valuation	3	0	0	3
7	LC4	PL-20011	Planning and Design Studio – III (Neighborhood and Site Planning)	0	0	10	4
				18	0	10	22
				<b>28</b>			<b>22</b>

**Semester IV [M-Group]**

Sr. No.	Course Type	Course Code	Course Name	Teaching Scheme			Credits
				L	T	P	
1	PCC1	PL-20008	Planning Theory – II	3	0	0	3
2	PCC2	PL-20013	Traffic and Transportation Planning - II	3	0	0	3
3	PCC3	PL-20009	Ecology and Resource Management	3	0	0	3
4	PCC4	PL-20006	Housing	3	0	0	3
5	SBC1	PL-20010	Geo-Informatics – I	2	0	2	3
6	LC5	PL-20014	Planning and Design Studio – IV (Traffic and Transportation Planning)	0	0	10	4
7	MLC	ML-20004	Professional Laws, Ethics, Values and Harmony	1	0	0	0
8	HSMC	HS-20004	Innovation and Creativity	1	0	0	1
				16	0	12	20
				<b>28</b>			<b>20</b>

**Semester V [M-Group]**

Sr. No.	Course Type	Course Code	Course Name	Teaching Scheme			Credits
				L	T	P	
1	PCC1		Land Economics and Valuation	3	0	0	3
2	PCC2		Planning Practice	3	0	0	3
3	PCC3		Planning Legislation - I	3	0	0	3
4	DEC 1		Environmental and Social Impact Assessment	3	0	0	3
			Urban Renewal and Redevelopment				
			Public Private Partnership				
			Special Area Planning				
5	SBC2		Geo-Informatics - II	2	0	2	3
6	SLC1		Summer Project	0	0	0	1
7	LC6		Planning and Design Studio – V (Area Planning)	0	0	10	4
8	MLC		Environmental Studies	1	0	0	0
9	HSMC		Humanities and Social Sciences Course –II	2	0	0	2
			· Industrial Psychology				
			· Personnel Psychology				
			· Engineering Economics				
			· Finance For Engineers				
				<b>17</b>	<b>0</b>	<b>12</b>	<b>22</b>
					<b>29</b>		<b>22</b>

**Semester VI [M-Group]**

Sr. No.	Course Type	Course Code	Course Name	Teaching Scheme			Credits
				L	T	P	
1	PCC1		Project Formulation, Appraisal and Management	3	0	0	3
2	PCC2		Planning Legislation - II	3	0	0	3
3	PCC3		Inclusive Planning	2	0	2	3
4	PCC4		Applied Geology and Hydrology	3	0	0	3
5	DEC2		Urban Heritage Conservation	3	0	0	3
			Climate Resilience and Disaster Management				
			Urban Energy Planning				
			Water Resource Management				
6	LC7		Planning and Design Studio – VI (Development Plan)	0	0	10	4
7	MLC		Constitution of India	1	0	0	0
8	HSMC		Humanities and Social Sciences Course –I	2	0	0	2
			· English Proficiency				
			· German Language				
			· Japanese Language				
			· Spanish Language				
9	HSMC		Entrepreneurship Principles and Process	1	0	0	1
				<b>18</b>	<b>0</b>	<b>12</b>	<b>22</b>
					<b>30</b>		<b>22</b>

**Semester VII [M-Group]**

Sr. No.	Course Type	Course Code	Course Name	Teaching Scheme			Credits
				L	T	P	
1	PCC1		Planning for Regions	3	0	0	3
2	PCC2		Sustainable Urban Development	3	0	0	3
3	PCC3		Urban Management and Governance	3	0	0	3
4	DEC3		Metropolitan Planning and Development	3	0	0	3
			Public Policy and Planning				
			Real Estate Development				
			Planning for Smart Cities				
5	SBC3		Planning Thesis – I	0	0	4	4
6	SLC2		Professional Training	0	0	0	1
7	LC8		Planning and Design Studio –VII (Regional Planning)	0	0	10	4
8	MLC		Intellectual Property Rights	1	0	0	0
9	LLC		Liberal Learning Course	1	0	0	1
				<b>14</b>	<b>0</b>	<b>14</b>	<b>22</b>
				<b>28</b>			<b>22</b>

**Semester VIII [M-Group]**

Sr. No.	Course Type	Course Code	Course Name	Teaching Scheme			Credits
				L	T	P	
1	PCC1		Urban Finance	3	0	0	3
2	PCC2		Planning Practice and Ethics	3	0	0	3
3	SBC4		Planning Thesis - II	0	0	6	10
				<b>6</b>	<b>0</b>	<b>6</b>	<b>16</b>
				<b>12</b>			<b>16</b>

**Available Credits for the Program Core: 19+23+22+20+22+22+22+16 = 166**

**Minor Courses:**

Basics in Infrastructure Planning  
 Rural Planning and Development  
 Basics in Urban Planning  
 Sustainable Development  
 Geoinformatics

**Honors Courses:**

Advanced Transport Planning  
 Advance tools in GIS  
 Best practices in Spatial Planning  
 Innovative Planning Practices