

ODISHA UNIVERSITY OF TECHNOLOGY AND RESEARCH

Techno Campus, Mahalaxmi Vihar, Ghatikia, Bhubaneswar-751029. Syllabus Structure (Effective from 2023-24)

School/ Department: School of Infrastructure and Planning Course: M. Plan., Programme: Urban and Regional Planning (URP), Duration: 2 years (Four Semesters)

Abbreviation used:

AC	Audit course	LC	Lab Course	PA	Practical Assessment			
PC	Professional Core	PR	Project/ Practical/ Internship	L	Lecture			
PE	Professional Elective	SE	Seminar/ Expert Lecture/ Etc.	Т	Tutorial			
OE	Open Elective	IA^*	Internal Assessment	Р	Practical			
MC	MC Mandatory/ Common Course EA End-Semester Assessment							
*Internal Assessment Mark (30 marks) consists of (i) Mid Semester (20 marks), (ii) Quiz/ Assignment (10 marks)								

Subject Code Format:

A1	A2	B3	C4	C5	C6	
School/ Dept	. (Offering)	Level	0: AC	Serial Numb	er (01 to 99)	
BH: Basic Science	s and Humanities	1: UG/ Int. Msc. (1 st Year)	1: PC	01/03//19: Od	d Sem. (GTE)	
CS: Computer Sci	ences	2: UG/ Int. Msc. (2 nd Year)	2: PE	21/23//39: Od	d Sem. (STE)	
EE: Electrical Scie	ences	3: UG/ Int. Msc. (3 rd Year)	3: OE	41/43//59: Od	d Sem. (WRE)	
EI: Electronic Sci	ences	4: UG/ Int. Msc. (4 th Year)	4: MC	61/ 63// 79: Od	d Sem. (URP)	
IP: Infrastructure	and Planning	5: UG/ Int. Msc. (5 th Year)	5: LC	81/83//99: Odd Sem. (Pro		
MS: Mechanical S	ciences	6: PG (1 st Year)	6: PR			
BT: Biotechnolog	у	7: PG (2 nd Year)	7: SE	02/ 04// 20: Ev	en Sem. (GTE)	
TE: Textile Engine	eering	8: Ph.D.	8:	22/24//40: Ev	en Sem. (STE)	
			9:	42/44//60: Ev	en Sem. (WRE)	
				62/64//80: Ev	en Sem. (URP)	
				82/84//98: Ev	en Sem. (Prog-5)	

1st Semester

SI.	Subject	Subject	Subject		eachiı Hours	0	Credit	Maximum Marks			
No.	Туре	Code	Name	L	Т	Р		IA	EA	PA	Total
1	PC 1	IP6161	Evolution of Urban and Regional Planning		0	0	3	30	70	-	100
2	PC 2	IP6163	Planning Theory and Techniques		0	0	3	30	70	-	100
3	PC 3	IP6165	Infrastructure Planning		0	0	3	30	70	-	100
4	PC 4	IP6167	Socio Economic Basis for planning		0	0	3	30	70	-	100
5	MC 1	IP6461	Research Methodology and Technical Report Writing	3	0	0	3	30	70	-	100
6	LC 1	IP6561	Planning Studio-I (Area Appreciation and Neighbourhood Planning)		0	8	4	-	-	100	100
			Total	15	0	8	19	150	350	100	600



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2nd Semester

SI.	Subject	Subject	Subject		achi Iour	0	Credit	Maximum Marks			
No.	Туре	Code	Name	L	Т	Р		IA	EA	PA	Total
1	PC 5	IP6162	Regional Planning and Development		0	0	3	30	70	-	100
2	PC 6	IP6164	Land Economics and Real Estate Planning		0	0	3	30	70	-	100
3	PC 7	IP6166	Environmental Planning & Management		0	0	3	30	70	-	100
4	PC 8	IP6168	Inclusive Urban Planning	3	0	0	3	30	70	-	100
5	OE 1	Any One	from the List of *OE 1 (Appendix-I)	3	0	0	3	30	70	-	100
6	LC 2	IP6562	Urban Information System		0	4	2	-	-	100	100
7	LC 3	IP6564	Planning Studio-II (Development Plan)	0	0	8	4	-	-	100	100
			Total	15	0	12	21	150	350	200	700

3rd Semester

SI.	Sl. Subject St		Subject	Teaching Hours			Credit	Maximum Marks			
No.	Туре	Code	Name	L	T P			IA	EA	PA	Total
1	PC 9	IP7161	Planning Legislation	3	0	0	3	30	70	-	100
2	PC 10	IP7163	Development Management and Finance		0	0	3	30	70	-	100
3	PC 11	IP7165	Project Planning and Appraisal		0	0	3	30	70	-	100
4	PC 12	IP7167	Transportation Planning		0	0	3	30	70	-	100
		IP7261	Public Private Partnership in Development								
5	PE 1	IP7263	Urban Heritage and Conservation				0 3	30	70		100
3	PE I	IP7265	Planning For Leisure and Tourism	3	3 0 0	0	3	50	70	-	100
		IP7267	Public Policy and Politics								
6	LC 4	IP7561	Planning Studio-III (Regional Plan)		0	8	4	-	-	100	100
7	PR 1	IP7661	Professional Training (Summer)		0	4	2	-	-	100	100
			Total	15	0	12	21	150	350	200	700

4th Semester

SI.	Subject Subject		Teaching Hours			Credit	Maximum Marks				
No.	Туре			L	Т	Р		IA	EA	PA	Total
1	PC 13	IP7162	Professional Practice	3	0	0	3	30	70	-	100
2	PE 2	IP7262	Energy, Climate Change and Urban Development			0	3	30	70		100
2	PE 2	IP7264	City and Metropolitan Planning	3	0	0	5	50	70	-	100
		IP7266	Disaster Risk Mitigation and Management								
3	PR 2	IP7662	Seminar Presentation		0	4	2	-	-	100	100
4	PR 3	IP7664	Thesis	0	0	12	6	-	-	100	100
			Total	6	0	16	14	60	140	200	400

Credits and Maximum Marks

Sl. No.	Semester	Credits	Maximum Marks
1	1 st	19	600
2	2 nd	21	700
3	3 rd	21	700
4	4 th	14	400
	Total	75	2400



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(APPENDIX-I)

LIST OF (MC/ *OE/ AC) SUBJECTS OFFERED BY SCHOOLS/ DEPARTMENTS

School/ Department (Offering)	Subject Type	Subject Code	Subject Name
	MC 1	BS6401	Mathematical Methods in Engineering
		BH6302	Spectroscopic Techniques for Organic Compounds
		BH6304	Chemical Biology
	*OE 1	BH6306	Nanoscience and Technology
	OE I	BH6308	Statistical Methods
		BH6310	Operations Research
Basic Science and Humanities		BH6312	Advanced Numerical Methods
basic science and Humannies		BH6001	English for Research Paper Writing
	AC 1	BH6003	Sanskrit for Technical Knowledge
	AC I	BH6005	Value Education
		BH6007	Constitution of India
		BH6002	Pedagogy Studies
	AC 2	BH6004	Stress Management by Yoga
		BH6006	Personality Development through Life Enlightenment Skills
		CS6302	Pattern Recognition
		CS6304	Distributed Systems
Computer Sciences	*OE 1	CS6306	Microfluidic Biochip
Computer Sciences	OE I	CS6308	Programming in C
		CS6310	Data Structure
		CS6312	Computer Vision
		EE6302	Quantitative Methods for Energy Management and Planning
Electrical Sciences	*OE 1	EE6304	Soft Computing application to Engineering
Electrical Sciences	OE I	EE6306	Illumination Engineering
		EE6308	AI and ML for Biomedical Sciences
		EI6302	Machine Learning and Artificial Intelligence
		EI6304	IoT and its Applications
Electronic Sciences	*OE 1	EI6306	Parallel Processing
		EI6308	Signal Processing in Mechatronics Systems
		EI6310	Micro Electro Mechanical Systems
		IP6302	Universally Accessible Built Environments
	*OE 1	IP6304	Environment Impact Analysis
Infrastructure and Planning	UE I	IP6306	Geotechnics for Waste Materials
		IP6308	Project Planning and Management
	AC 2	IP6002	Disaster Management
	MC 2	MS6403	Research Methodology and IPR
		MS6302	Production Planning and Control
		MS6304	Design of Experiment
		MS6306	Total Quality Management and Six Sigma
Mechanical Sciences	*OF 1	MS6308	Financial Institutions, Instruments and Markets
	*OE 1	MS6310	Renewable Energy Systems
		MS6312	Design of Thermal Systems
		MS6314	Sensors and Actuators in Industry
		MS6316	Robot Mechanics and Control
Biotechnology	*OE 1	BT6302	Nanobiotechnology
	*OE 1	TE6302	Polymer Composite

*<u>N.B.:</u>

The Open Elective Subjects (*OE 1) are specifically open for all programs of Schools/ Departments, other than the School/ Department offering the same subject.