Paper UC/BTHU-101/18 Communicative English

	Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - Design research	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook			
Course Outcome	РО-а	РО-ь	РО-с	PO-d	РО-е	PO-f	PO-g	PO-h	PO-i	РО-ј	PO-k	PO-I	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1:1. Have proficiency in reading & listening, comprehension, writing and speaking skills.					1					v		v				Understand	Yes	Group Discussions, Indiviual Presentations, MST, End Term Examination
CO 2: Understand spoken and written English language, particularly the language of their chosen technical field.					1					٧		.1				Understand	Yes	Group Discussions, Indiviual Presentations, MST, End Term Examination
CO 3: Converse fluently.					V	81				1		<b>V</b>				Understand	Yes	Group Discussions, Indiviual Presentations, MST, End Term Examination
CO 4: Produce clear and coherent texts on their own.					<b>V</b>					٧		<b>√</b>				Understand and Analyse	Yes	Group Discussions, Indiviual Presentations, MST, End Term Examination

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

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Mahali Campus-M



Paper UC/BTHU-102/18 Workshop-I

	Architectural Knowledge	Problem Solving	Jesign development	Conduct Investigations/ Pre - Design esearch	Jse of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	ndividual and team work	Communication	Aanagement and finance	ife-long Learning	nalysis and Design Skill	Research and Innovation	iustainable Outlook			
Course Outcome	PO-a	РО-ь	PO-	PO-d	PO-	PO-f	PO-g	PO-h	PO-i	РО-ј	PO-	PO-I	PSO-	PSO-n	PSO-o		Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1:1. Gain the basics knowledge of the carpentry tools and its joints.	1		1		1		1		1		1		1		<b>V</b>	understanding		University Viva-Voce
CO 2: 2. Attain skill to work with different materials for making architectural model		✓		✓		<b>V</b>		1		✓		<b>V</b>		1		Analysis	Yes	University Viva-Voce

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

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Mohali Campus-II

Paper UC/HSMC-122/18 Human Value and Professional Ethics

	Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - Design research	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook			
Course Outcome	PO-a	РО-ь	РО-с	PO-d	РО-е	PO-f	PO-g	PO-h	PO-i	РО-ј	PO-k	PO-I	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1:1. Gain the basics knowledge of the carpentry tools and its joints.	V		v		v		v		٧		v		٧			Understanding	YES	Group Discussions, Indiviual Presentations, MST, End Term Examination
CO 2: 2. Attain skill to work with different materials for making architectural model		V		v		V		V		٧		<b>v</b>		V	V	Anaylsis	YES	Group Discussions, Indiviual Presentations, MST, End Term Examination

Note: Provide Mapping for all courses of all programs offered by the Department

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Paper UC/BARCH-201/19 Architectural Design - II

	Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - Design research	Jse of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	ndividual and team work	Communication	Management and finance	ife-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook			
Course Outcome	PO-a	РО-ь	РО-с	PO-d	РО-е	PO-f	PO-g	PO-h	PO-i	РО-ј	PO-k	PO-I	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1:1. Develop a basic understanding of function, form, structure in the design of small structure.	v	٧	٧	٧		٧	٧			V		v	٧		٧	Understanding	YES	Group Discussions, Indiviual Presentations, MST, End Term Examination
CO 2: 2. Understand & gain a fundamental knowledge of architecture design process and its principles.	v	v	v	٧		٧		v		v		v	٧	v		Application	YES	Group Discussions, Indiviual Presentations, MST, End Term Examination

Note: Provide Mapping for all courses of all programs offered by the Department

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CO 2: 2. A	D. CO1:1. Un	Course Outcome	
CO 2: 2. Analyse the 3-dimensional drawings of the building with Sciography.	CO1:1. Understand the fundamental techniques of technical drawing used in 3-D.	tcome	
of the building with Sciography.	es of technical drawing used in 3-		
4	4	PO-a	Architectural Knowledge
7	~	РО-ь	Problem Solving
4	~	PO-c	Design development
		PO-d	Conduct Investigations/ Pre - Design research
1		PO-e	Use of Modern tool
		Pot	Socially responsible architecture
۷.	٠.	PO-g	Environment and Sustainability
		PO-h	Ethics
Individual	Individual	POL	Individual and team work
1	~	POJ	Communication
		PO-k	Management and finance
~	~	<u>P</u>	Life-long Learning
No.		PSO-m	Analysis and Design Skill
		PSO-n	Research and Innovation
		PSO-o	Sustainable Outlook
Understanding // Application/Analysis	Understanding /Application	PSO-o Learning Level	
Yes	Yes	Focus on Employability / Entrepreneurship	
Sheet Work/ Mid term Exam/End Term Exam/Neptel-Swayam Courses	Sheet Work/ Mid term Exam/End Term Exam	Assessment Tools to Measure Attainment of CO	

PaperUC-BARCH202-19 Architectural Drawing - II Name of the Department: Architecture.

Paper UC/BARCH-203/19 Architectural Graphics - II

	rchitectural Knowledge	roblem Solving	esign development	onduct Investigations/ Pre - Design	ise of Modern tool	ocially responsible architecture	invironment and Sustainability	thics	ndividual and team work	communication	Aanagement and finance	ife-long Learning	and Design Skill	Research and Innovation	sustainable Outlook			
Course Outcome	PO-a	РО-ь	РО-с	PO-d	РО-е	PO-f	PO-g	PO-h	PO-i	PO-j	PO-k	PO-I	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: Gain a fundamental knowledge of architecture Graphics and its principles.	٧				٧				٧	٧		٧	٧			Understanding	Entrepreneurship	University End Term Examination
CO 3. Attain the knowledge about the role of colours in presentation drawing	-	,	y	-	-	3.	V	V	-	-	_	V	V		V	Applicatiion	Yes	University End Term Examination

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and rendering techniques used in architectural design.

Note: Provide Mapping for all courses of all programs offered by the

Director

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Mohali Campus-II

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Name of the Department: Architecture.

Paper UC/BARCH-204/19 History of Architecture - II

	Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - De esearch	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	thics	ndividual and team work	Communication	Management and finance	ife-long Learning	nalysis and Design Skill	Research and Innovation	sustainable Outlook			
Course Outcome	РО-а	РО-ь	РО-с	PO-d	РО-е	PO-f	PO-g	PO-h	PO-i	PO-j	PO-k	PO-I	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: Develop an understanding of architecture as an outcome of various social, political and economic influences and as a response to the cultural and climate conditions.	v		v		v		V	V		V		V		V		Understanding	Yes	Sheet work, site study
CO 2: Develop an understanding of the physical experience of buildings in order to appreciate the complexity of the physical and metaphysical influences bearing on architecture.		V	v	V		V	V		V		٧		V		V	Application	Yes	Minor Exams, Quiz, End Term Exams

(Signature of Head of Department

Note: Provide Mapping for all courses of all programs offered by the Department

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Name of the Department: Architecture.

Paper UC/BARCH-205/19 Building Construction and Materials - II

	Architectural Knowledge	Problem Solving	Design development	conduct Investigations/ Pre - Design research	Jse of Modern tool	socially responsible architecture	invironment and Sustainability	thics	ndividual and team work	ommunication	Janagement and finance	ife-long Learning	ualysis and Design Skill	kesearch and Innovation	iustainable Outlook			
Course Outcome	PO-a	РО-ь	РО-с	PO-d	РО-е	PO-f	PO-g	PO-h	PO-i	PO-j	PO-k	PO-I	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1:Comprehend timber as a building material and its application in building components and Gain knowledge on construction of Door, window, roof made out of it.	V			V		V		V		V		V	v	,		Application	Yes	Sheet work, site study
CO 2: Understand various surface finishes for single storey building and the fundamental knowledge for water proofing details in simple structures.		v	v		v		V		V		v	v				Understanding	Yes	Minor Exams, Quiz, End Term Exams

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Note: Provide Mapping for all courses of all programs offered by the Department

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Paper UC/BARCH-206/19 Theory of Structures - I

CO 3: Describe Hooke's law relationships and perform calculations	CO 2: Apply basic knowledge of Maths and Physics to solve real life problems related to structures	CO1: Develop techniques for analysing forces in statically determinate structures.	Course Outcome	
٧	۷	۷	PO-a	Architectural Knowledge
٧	<	۷	РО-Ь	Problem Solving
٧	٧	۷	PO-c PO-d	Design development
			PO-d	Conduct Investigations/ Pre - Des
			PO-e PO-f	Use of Modern tool
			PO-f	Socially responsible architecture
			PO-g	Environment and Sustainability
٧.	٧	۷	PO-g PO-h	Ethics
۷	٧	<	Po	Individual and team work
٧	٧	۷	골 질	Communication
			PO-k	Management and finance

Pol

PSO-m

PSO-n

PSO-o

Learning Level

Focus on Employability I
Entrepreneurship

Assessment Tools to Measure
Attainment of CO

understanding,Analysis Yes
understanding,Analysis Yes
understanding,Analysis Yes

Minor Exams, Quiz, End Term Exams
Minor Exams, Quiz, End Term Exams
Minor Exams, Quiz, End Term Exams

ustainable Outlook

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Note: Provide Mapping for all courses of all programs offered by the Department

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Paper UC/BARCH-207/19 Theory of Design - I

	vrchitectural Knowledge	Problem Solving	Jesign development	Conduct Investigations/ Pre - Desi	Jse of Modern tool	socially responsible architecture	Environment and Sustainability	thics	ndividual and team work	Communication	Aanagement and finance	ife-long Learning	vnalysis and Design Skill	Research and Innovation	sustainable Outlook			
Course Outcome	PO-a	РО-ь	РО-с	PO-d	PO-e	PO-f	PO-g	PO-h	PO-i	PO-j	PO-k	PO-I	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: Develop a basic understanding of spatial organisation.	٧		٧		٧				٧			٧				Application	Yes	Sheet work, site study
CO 2: Learn about the inter-dependence of function, structure and form in architectural design.		٧		٧		٧	٧	٧			٧	٧	٧	V	٧	Analysis	Yes	Minor Exams, Quiz, End Term Exams

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Note: Provide Mapping for all courses of all programs offered by the Department

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Mohali Campus-H

A

Name of the Department: Architecture.

Paper UC/BARCH-204/19 History of Architecture - II

	Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - Design research	Jse of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	ndividual and team work	Communication	Management and finance	ife-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook			
Course Outcome	PO-a	РО-ь	РО-с	PO-d	РО-е	PO-f	PO-g	PO-h	PO-i	PO-j	PO-k	PO-1	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: Develop an understanding of architecture as an outcome of various social, political and economic influences and as a response to the cultural and climate conditions.	V		v		v		V	v		V		v		v		Understanding	Yes	Sheet work, site study
CO 2: Develop an understanding of the physical experience of buildings in order to appreciate the complexity of the physical and metaphysical influences bearing on architecture.		V	v	v		v	٧		V		v		v		v	Application	Yes	Minor Exams, Quiz, End Term Exams

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Note: Provide Mapping for all courses of all programs offered by the Department

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Note: Provide Mapping for all courses of all programs offered by the Department

Paper UC/BARCH-206/19 Theory of Structures - I CO 3: Describe Hooke's law relationships and perform calculations CO 2: Apply basic knowledge of Maths and Physics to solve real life problems related to structures Course Outcome

CO1: Develop techniques for analysing forces in statically determinate structures. PO-a rchitectural Knowledge РО-ь oblem Solving PO-c Pod PO-e PO PO-g Environment and Sustainabilit PO-h POH Fod PO-k anagement and finance Por PSO-m nalysis and Design Skill PSO-n PSO-o Learning Level Sustainable Outlook understanding, Analysis understanding, Analysis understanding, Analysis

Yes

Minor Exams, Quiz, End Term Exams
Minor Exams, Quiz, End Term Exams

Focus on Employability / Entrepreneurship

Assessment Tools to Measure
Attainment of CO
Minor Exams, Quiz, End Term
Exams

Name of the Department: Architecture.

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Mohali Campus-ii

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A

Name of the Department: Architecture.

Paper UC/BARCH-207/19 Theory of Design - I

CO1: Develop a basic understanding of spatial organisation. CO 2: Learn about the inter-dependence of function, structure and form in architectural design.	٧		٧		٧				٧			٧				Application Analysis	Yes Yes	Sheet work, site study Minor Exams, Quiz, End Term Exams
Course Outcome	PO-a	РО-ь	РО-с	PO-d	РО-е	PO-f	PO-g	PO-h	PO-i	PO-j	PO-k	PO-I	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
	Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - Des	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook			

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Note: Provide Mapping for all courses of all programs offered by the Department

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4

Paper UC/BARCH-209/19 Environmental Science

CO 2: Interpret the results of scientific studies of environmental problems
CO 3: Describe threats to global biodiversity, their implications and potential Course Outcome

COI:Propose solutions to environmental problems related to resource use and PO-a Architectural Knowledge РО-Ь PO-c Design development Pod onduct Investigations/ Pre - Des PO-e Use of Modern tool Pod ocially responsible architecture PO-g 4 PO-h 4 4 Ethics POL ndividual and team work Poy PO-k Management and finance POL 4 Life-long Learning PSO-m nalysis and Design Skill

PSO-n

PSO-o

Learning Level

Focus on Employability / Entrepreneurship

4 4

Application Understanding

Yes Yes

Assessment Tools to Measure Attainment of CO
Group Discussions, Individual Presentations, MST, End Term Examination
Group Discussions, Individual Presentations, MST, End Term Examination
Group Discussions, Individual Presentations, MST, End Term Examination

Yes

Analysis

Research and Innovation

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Sustainable Outlook

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Assessment Tools to Measure Attainment of CO

Individual Presentations, Group Discussions and

Name of the Department: Architecture.

Paper UC/BARCH-210/19 Mentoring & Professional Development- I

PO-a	РО-ь	РО-с	PO-d	PO-e	PO-f	PO-g	PO-h	PO-i	PO-j	PO-k	PO-I	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	STATE SALE
Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - D	Jse of Modern tool	Socially responsible architectur	Environment and Sustainability	thics	ndividual and team work	Sommunication	Aanagement and finance	ife-long Learning	nalysis and Design Skill	Research and Innovation	sustainable Outlook			

(Signature of Head of Department)

CO1: Personality Development and Holistic Development

Note: Provide Mapping for all courses of all programs offered by the Department

Understand

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Paper UC/BARCH-301/19 Architectural Design - III

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Note: Provide Mapping for all courses of all programs offered by the Department

CO 2: They will also be well versed with various physical factors of architecture design and equipped with the norms of barrier free design.	CO1: The students will able understand the nuances of house, school, cafeteria and post office design.	Course Outcome	
<	<	PO-8	Architectural Knowledge
<	<	a PO-I	Problem Solving
<	<	PO	Design development
	<	PO-a PO-b PO-c PO-d PO-e PO-f PO-g PO-h PO-i PO-j	Conduct Investigations/ Pr
<		PO	Use of Modern tool
<	<	PO-f	Socially responsible archit
۷	<	PO-g	Environment and Sustaina
<		PO	Ethics
<	<	PO-i	Individual and team work
<	<		Communication
~	<	PO-k	Management and finance
<	<	PO-I F	Life-long Learning
		SO-m	Analysis and Design Skill
	<	PSO-r	Research and Innovation
<		PSO-c	Sustainable Outlook
Application	Understanding	PO-k PO-I PSO-m PSO-n PSO-o Learning Level	
Employability / Entrepreneurs	Understanding Employability / Entrepreneurs	Focus on Employability / Assessment Tools to Entrepreneurship Measure Attainment c	
University End Term Examination	University End Term Examination	Assessment Tools to Measure Attainment of CO	

Materials-III

Name of the Department: Architecture.

Paper UC/BARCH-302/19 Building Construction &

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Note: Provide Mapping for all courses of all programs offered by the Department

Mohali Campus II

CO 2.Understand details for trusses, staircases, sliding doors, sliding folding doors, partitions, panelling, work out and apply appropriate details for building construction of the same.	CO1: At the end of the course student will able to become aware of the different types of timber roofing systems and trusses.	Course Outcome	
<	<	PO-a	Architectural Knowledge
<		PO-a PO-b PO-c PO-d PO-d PO-d PO-d PO-d PO-d PO-d PO-d	Problem Solving
		РОс	Design development
	<	РО-М	Conduct Investigations/ Pr
		РО-е	Use of Modern tool
<		PO-f	Socially responsible archit
		PO-g	Environment and Sustaina
<		PO-h	Ethics
	<	POI	Individual and team work
<		PO-j	Communication
		PO-k	Management and finance
<	<	PO-I	Life-long Learning
	<	PSO-m	Analysis and Design Skill
<		PSO-n	Research and Innovation
		PSO-o	Sustainable Outlook
Understanding, Application	Understanding, Application	PSO-m PSO-n PSO-o Learning Level	

Yes

Sheet Work/ Problem Solving/ Mid term Exam/End Term Exam

Yes

Focus on Employability /
Entrepreneurship

Assessment Tools to Measure
Attainment of CO
Sheet World Problem Solving/ Mid
term Exam/End Term Exam

Paper UC/BARCH-303/19 Struct

Course Outcome	Problem Solving Problem Solving Problem Solving Pocinic Conduct Investigations Conduct Investigation Conduct Inve	Problem Solving	Design development	Conduct Investigations.	Use of Modern tool	Socially responsible are	Environment and Susta	P Ethics	Individual and team wo	P Communication	Management and finan	Life-long Learning	Analysis and Design SI	Research and Innovation	Sustainable Outlook	PO-k PO-I PSO-m Research and Innovation PSO-m PS	Focus on Employabilit
Course Outcome	PO-a	РО-ь	PO-c	PO	РО	<sub>e</sub> PO-	f PO-	у РО-	h PO-	PO.	j PO-	k PO	PSO-	m PSO	-nPSO	-c Learning Lev	Focus on Employabil
CO1:At the end of the course, the students will be able to gain ability to comprehend the Design erection process and application of large span structures.	<		<		<	<			<		<	<	<	<	<	Understanding Employability	Employabil
CO 2: To understand the need and importance of prefabricated components	<	<		<	<		<	<		<		<	<		<	Application	Employability
CO 3: process. To understand the needs, requirements, and selection for various types of structures systems.	<		<		<				<		<	<	<	<	<	Analysis	Employability

University Viva-Voce University Viva-Voce University Viva-Voce Assessment Tools to Measure Attainment of

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Note: Provide Mapping for all courses of all programs offered by the Department



Paper UC/BARCH-304/19 Structure Design - 1

	Architectural Knowledge	pplen	Design development	Conduct Investigations/ Pre -	Modern	Socially responsible architecture	Environment and Sustainability	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook			
Course Outcome	PO-	PO- b	PO-	PO-	PO-	PO-		300000E3031		E0000000000000000000000000000000000000	ALC REPORTS OF	2000	E CANADA DE LA COMPANION DE LA	PSO-	PSO-	ACCURATE VALUE OF THE PARTY OF	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: At the end of the course, the students will able to Design timber beams by applyinB codal provisions, DesiSn Masonry foundation and retaining walls'	v	v	v		v			V	v	٧	V	V	V			uderstanding, analysis	yes	Minor Exams, Quiz, End Term Exams
CO 2: Analyse indeterminate structures and to calculate shear force and bending moment in determinate structures'	V	٧	٧		٧			٧	V	v		V	v			uderstanding, analysis	yes	Minor Exams, Quiz, End Term Exams

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Note: Provide Mapping for all courses of all programs offered by the Department

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Paper UC/BARCH-305/19 surveying & Leveling Name of the Department: Architecture.

(Signature of Head of Espartment)

Note: Provide Mapping for all courses of all programs offered by the Department

chain survey in,compass survey, plane table survey, levelling, contourinS' Students will have knowledge of survey instruments also.	CO1:courseoutcomes:At the end of the course,the students will able to do	Course Outcome
	د ي -	Architectural Knowledge
	6	Problem Solving
	0 7	Design development
	۵ 7	Conduct Investigations/ Pre -
	e -	Use of Modern tool
	7 7	Socially responsible
	9 0	architecture Environment and
~	f q h	Sustainability  Ethics
<	- P	Individual and team
<	)- 	work Communication
	PO- PO- PO-	Management and
<		
	PO- PS	Life-long Learning
	PSO-	Analysis and Design Skill
	PSO-	Research and Innovation
	PSO- PSO-	Sustainable Outlook
understanding	Learning	
Yes	Focus on Employability / Entrepreneurship	

Assessment Tools to
Measure Attainment of CO
Minor Exams, Quiz, End
Term Exams

Director

I.K.G.PT.J.

Nohali Campus-II

Paper UC/BARCH-306/19 Climate&Architecture-1

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proposal accordingly. Like thermal comfort, design sensitivity towards climate and climatic zones'

as important consideration in architecture design and it will orient his/her

CO1:At the end of the course, the students will able to understand the

Architectural Knowledge Problem Solving

Conduct Investigations/ Pre Use of Modern tool Socially responsible architecture

**Ethics** 

PO-

0

Level

Employability /
Entrepreneurship

Learning

Understandin Yes

Assignment, Group work, model MST

Assessment Tools to Measure Attainment of CO

Design development

Environment and Sustainability

Individual and team

Communication Management and finance Life-long Learning Analysis and Design

Research and Innovation

Sustainable Outlook

fundamental of climatology

Course Outcome

Note: Provide Mapping for all courses of all programs offered by the Department

Director

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I.K.G.P.T.L.

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Application

Yes

Minor Exams, Quiz, End Term Exams

Note: Provide Mapping for all courses of all programs offered by the

fundamental course the students will be introduced to the basic of hardware and software. CO2: They will be introduced to 2D presentation.. CO1:At the end of the course, the students will able to understand basics hardware, operating systems and operative languages, being a Course Outcome Architectural PO-Knowledge PO-6 Problem Solving PO-Design development < PO-Conduct Investigations/ Pre PO-Use of Modern tool < Po-Socially responsible architecture Environment and Sustainability PO-→ P Ethics PO-Individual and team work Communication × Po-Management and finance PO-Life-long Learning 2 PSO-Analysis and Design Skill 3 PSO-Research and Innovation

PSO-

Learning

Level

Focus on Employability / Assessment Tools to
Entrepreneurship Measure Attainment of CO

understandin

Yes

Minor Exams, Quiz, End Term Exams

Sustainable Outlook

Paper UC/BARCH-307/19 Computer Application-I

Name of the Department: Architecture.

Director

I.K.G.P.T.U

Mohali Campus-4:

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Name of the Department: Architecture.

Paper UC/BARCH-309/19 Educational Tour I/Summer Training-I / Vacation Assignment-I

	Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - Design research	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	ndividual and team work	Communication	Management and finance	Life-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook			
Course Outcome	РО-а	РО-ь	РО-с	PO-d	РО-е	PO-f	PO-g	PO-h	PO-i	РО-ј	PO-k	PO-I	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: The education tour is encouraged to be undertaken by the students under faculty supervision. During or after the semester the tour report shall be submitted to the class coordinator for assessment. The students should be encourage undertaking approx. O4 week summer training in a design / construction/allied office. Alternatively student should also be encouraged to do any online course of similar duration during the summer vacation.	٧	٧	٧	<b>v</b>	٧	٧	٧	٧	٧	٧	v	V	<b>~</b>	v		understanding, Application & Analysis	YES	Sheet work, site study

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

Director

LK.G.P.T.U

Mohali Campus-i.

Paper UC/BARCH-401/19 Architectural Design -IV

	A A	Pro P	o O	ပိ	S	S	E E	#	2	ပိ	Z Z	5	<b>\{\}</b>	ě	Su			
Course Outcome	PO-a	PO-b	РО-с	PO-d	РО-е	PO-f	PO-g	PO-h	PO4	PO-	PO-k	PO4	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1:1 At the end of the course, the students will able to Study Social and Physical environment and	T																	
methods of construction in Vernacular/Rural Architecture, emerging out of the traditional way of life of the	1					1										Understanding	YES	Sheet work, site study, Minor Exams, Quiz, End Term Exams
people in a given place with special reference to Punjab	٧	٧	٧		٧		٧	V		٧			٧		٧			
CO2: understand the principles of design in vernacular/ traditional architecture w.r.t to thermal comfort,									1							Application	YES	Sheet work, site study, Minor Exams, Quiz, End Term Exams
climate, and topography	V	V	V	1	V	1	V	V	1	V	1		V		V	Application	TES	Sheet work, site study, minor Exams, Quiz, End Term Exams

Director

LK.G.P.T.U

Mohali Campus-II

Paper UC/BARCH-402/19 History of Architecture-III

O1:1. At the end of the course, the students will able to approach the architectural structures provided heir ancestors and co-relate them with the contemporary scenario.	Ψ			l,		,		,				.,				Understanding and application	Yes
Course Outcome	PO-a	РО-ь	РО-с	PO-d	РО-е	PO-1	PO-g	PO-h	PO4	PO-J	PO-k	PO4	PSO-m	PSO-n			Focus on Employability / Entrepreneurship
	Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - Des	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook		

Note: Provide Mapping for all courses of all programs offered by the Department

Oirector
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Mohaii Campus-II

Assessment Tools to Measure Attainment of CO Sheet work, site study, Minor Exams, Quiz, End Term Exams

Paper UC/BARCH-403/19 Building Construction & Materials-IV

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Course Outcome	PO-a	PO-b	PO-c	PO-d	РО-е	PO-1	PO-g	PO-	h PO-	PO-	PO-	k PO-	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1:1. At the end of the course student will be able to become aware of the roof and floor coverings.	v	V		v	v		v		V	V		v	v	v		understanding	Employability / Entrepreneurship	University End Term Examination
CO2:2. Understand details for trusses, staircases, sliding doors, sliding folding doors, partitions, paneling, work out and apply appropriate details for building construction of the same.	V	V	v	V			v		v	T	V		v		v	Applications	Employability / Entrepreneurship	University End Term Examination

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

Director
I.K.G.P.T.U
Mohali Campus-II

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Director Director

(Signature of Head of Department)

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Name of the Department: Architecture.

Paper UC/BARCH-404/19 Structure Design -II

Note: Provide Mapping for all courses of all programs offered by the Department

COLLA the end of the course, the students will able to - design RCC Beams, Slabs, Columns, and footings with different loads for one-story simple buildings.

COL: At the end of the course, the students will able to - design RCC Beams, Slabs, Columns, and footings with different loads for one-story simple buildings. Architectural Knowledge Problem Solving PO-c O Design development

O Conduct Investigations/ F

O Use of Modern tool

O Socially responsible archit

O Environment and Sustaina

O Ethics

O Individual and team work Communication PO-k P Life-long Learning Research and Innovation Sustainable Outlook Application understanding Learning Level Focus on Employability / Entrepreneurship Minor Exams, Quiz, End Term Exams YES Sheet work, site study. Minor Exams, Quiz, End Term Exams Assessment Tools to Measure Attainment of CO
Sheet work, site study, Minor Exams, Quiz, End Term Exams

Paper UC/BARCH-405/19 Building Services-I

ctural Knowledge	Solving .	development	t Investigations/ Pre - De	Modern tool	responsible architecture	ment and Sustainability		al and team work	nication	ment and finance	) Learning	and Design Skill	th and Innovation	able Outlook	
Archited	Problen	Design	Conduc	Use of	Socially	Environ	Ethics	Individu	Commu	Manage	Life-long	Analysis	Researc	Sustain	
PO-a	PO-b	PO-c	PO-d	РО-е	PO-f	PO-g	PO-h	PO4	PO-	PO-k	PO4	PSO-m	PSO-n	PSO-0	Learning

	Arc	1 8	å	8	l s	So	5	Æ	l bu	0	8	1 =	5	ě	Sing			
Course Outcome	PO-a	PO-b	РО-с	PO-d	РО-е	PO-f	PO-g	PO-h	PO4	PO-	PO-k	POH	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: Understand the terminology and basic principles of water supply, stormwater drainage, and sanitation.	v				v		V			V	V				V	Understanding	Employability / Entrepreneurship	Sheet work, site study
CO2: Understand water requirements in various types of buildings, types of water storage and distribution systems, sanitary & drainage system requirements, and their integration in architectural design.		v				v		v	v			v		V		Application	Employability / Entrepreneurship	Minor Exams, Quiz, End Term Exams
(O3: Understand the functions of various sanitary fittings and fixtures and be aware of the different types of materials and specifications of the same.			v		v	v			v			v		v		Understanding	Employability / Entrepreneurship	Sheet work, site study
CO4: Develop design skills for water supply and drainage systems in buildings and prepare architectural drainage layouts.	v			v			v			v			v			Application	Employability / Entrepreneurship	Minor Exams, Quiz, End Term Exams

(Signature of Heat of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

Director I.K.G.P.T.U Mohali Campus-li

Paper UC/BARCH-406/19 Climate & A

Paper UC/BARCH-406/19 Climate & Architecture-II					-	,		,	,	,				,		,	
	Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - Des	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook		
Course Outcome	PO-a	PO-b	PO-c	PO-d	PO-e	PO-f	PO-g	PO-h	PO-I	PO-	PO-k	POH	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship
CO1: At the end of the course, the students will able to understand advanced climatology and ventilation as an important consideration.	v		V	v		v				v		v	v		v	Understanding	Employability / Entrepreneurship
CO2: At the end of the course, the students will able to analysis the climate data.	V				٧				٧			٧		٧		Application	Employability / Entrepreneurship

(Signature of Head (Coepartment)

Note: Provide Mapping for all courses of all programs offered by the Department

Director
L.K.G.P.T.U
Mohali Campus-II

Assessment Tools to Measure Attainment of CO Sheet work, site study, Minor Exams, Quiz, End Term Exams

Sheet work, site study, Minor Exams, Quiz, End Term Exams

Name of the Department: Architecture.

Paper UC/BARCH-407/19 Computer Application -II

gnature of Head of Bepartment)

Note: Provide Mapping for all courses of all programs offered by the Department

ams.	Produce 3D models and renderings of simple and complex buildings using CAD and other software	amiliarize themselves with 3D model design and rendering techniques using different software for ng visualization/design representation.	evelop skills required for using Computers as a tool for design, 3D modeling, and rendering	se Outcome	
	ings using CAD and other software	niques using different software for	3D modeling, and rendering.		
L			_	PO-a	Architectural Knowledge
V				PO-b	Problem Solving
_				PO-c	Design development
				PO-d	Conduct Investigations/ Pre - De
			<	PO-e	Use of Modern tool
_				PO-f	Socially responsible architecture
				PO-g	Environment and Sustainability
				PO-h	Ethics
_				PO4	Individual and team work
		<		FOd	Communication
~			~	PO-k	Management and finance
		<		POH	Life-long Learning
				PSO-m	Analysis and Design Skill
٧			٧	PSO-n	Research and Innovation
				PSO-o	Sustainable Outlook
- doponouson	Application	Application	Understanding	PSO-o Learning Level	
Links Jacons, Line ob circumstant	Employability / Entrepreneurshin	Employability / Entrepreneurship	Employability / Entrepreneurship	Focus on Employability / Entrepreneurship	
				18	

Assessment Tools to Massure Attainment of CO
More Earns, Quiz, End Term Exams
Minor Exams, Quiz, End Term Exams
Minor Exams, Quiz, End Term Exams

Director LK.G.P.T.J.

Paper UC/BARCH-408/19 Mentoring and Professional Development-II

Paper OC/BARCH-408/15 INTERIORING and Professional Development-II	_	T	-	1 4		·									
	Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - Des	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook
Course Outcome	PO-a	PO-b	PO-c	PO-d	РО-е	PO-f	PO-g	PO-h	PO4	PO-	PO-k	PO-I	PSO-m	PSO-n	PSO-o
CO1: Personality Development and Holistic Development		V						1	٧	٧		٧			V

SO-o Learning Level Focus on Employability / Entrepreneurship

√ Application Yes Assessment Tools to Measure Attainment of CO Individual and Group Presentations, Discussions, Activities

(Signature of Head) Department)

Note: Provide Mapping for all courses of all programs offered by the Department

Director

I.K.G.P.T.M

Mobali Campus-M

Note: Provide Mapping for all courses of all programs offered by the Department

Course Outcome

COLAt the end of the course, the students will able to get the basic knowledge of law and constitution РО-Ь Individual and team work

nable Outlook

Understanding Learning Level

Employability / Entrepreneurship Focus on Employability / Entrepreneurship

MST, Assignments, End Semester Exams Assessment Tools to Measure Attainment of CO Paper UC/BARCH-409/19 Constitutional Law Name of the Department: Architecture.

Director

I.K.G.P. S. S. Sampus-II

LEI

Paper UC/BARCH-501/19Architectural Design -V

CO.C.C. They will also be well wersed with various physical factors of architecture design and equipped with the norms of barrier-free design and design of building with respect to site topography.	public building.	COLLS OUTCOME	
<	<	PO-a	Architectural Knowledge
<	<	РО-ь	Problem Solving
<	<	PO-c	Design development
		PO-d	Conduct Investigations/ Pre - De
	<	PO-e	Use of Modern tool
		PO-f	Socially responsible architecture
4		PO-g	Environment and Sustainability
		PO-h	Ethics
	<	PO4	Individual and team work
		Fod	Communication
	<	PO-k	Management and finance
-		PO4	Life-long Learning
	~	PSO-m	Analysis and Design Skill
		PSO-n	Research and Innovation
	<	PSO-0	Sustainable Outlook
Application	Understanding	Learning Level	
Employability / Entrepreneurship	Understanding Employability / Entrepreneurship	Learning Level Focus on Employability / Entrepreneu	

Employability / Entrepreneurship

Assessment Tools to Measure Attainment of CO Minor Exams, Quiz, End Term Exams

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Minor Exams, Quiz, End Term Exams

(Signature of Head of Bepartment)

December Campus II

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Paper UC/BARCH-502/19 Building Construction & Materials-V

chitectural Knowledge be of Modern tool anduct Investigational Pre and Modern tool anagement and Sustainab thics and Cesign Skill fe-long Learning fe-long Learning fe-long Learning fe-long Learning
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	A P	Pa	å	8	S	S	<u> </u>	BO b	PO-	PO-I	PO-k	POJ	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
Course Outcome CO1:1. At the end of the course student will able to Become aware of the different types roofing systems	-	PO-b	РО-с	PO-d	РО-е	PO-1	PU-g	PU-n	PU-	109	1					understanding	Employability / Entrepreneurship	University End Term Examination
and trusses.  CO2:2. Understand details for trusses, staircases, sliding doors, partitions work out and apply appropriate	V	٧	-	V	٧		V	-	V	V		TV -	V.	1		Applications	Employability / Entrepreneurship	University End Term Examination
details for building construction of the same.	V	٧	٧	٧			V		V		V	_	ĮV.		ĮV			

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

Directory,

N.K.G.F.

Paper UC/BARCH-503/19 Structure Systems-III

Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - Des	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outtook		
PO-a	PO-b	PO-c	PO-d	РО-е	PO-f	PO-g	PO-h	PO-	PO-	PO-k	PO-I	PSO-m	PSO-n	PSO-o	Learning Level	g

CALL TO A CONTROL OF THE CALL	4	ā.	Ŏ	ŭ	Š	ပိတိ	<u> </u>	E .	2	1 8	2	1 5	5		Į į			
COL: After completing this course the student will be also	PO-a	PO-b	PO-0	PO-d	PO-6	PO-f	PO-g	PO-h	POH	POH	PO-k	PO-I	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: After completing this course, the student will be able to Understand the basic principles of structures.	V		1		,							1.	1.			Understanding	Employability	
CO2 Re:alize the fundamental requirements of long span structures Understand the architectural features	1	_	† -	1	t -	+	_	+	IV .	+	V	V	V	V	V	-		University Viva-Voce
and necessity of shells and plate structures Comprehend the design principles and applications of pneumatic and tensile structures.		١.			1.						100					Application	Employability	
Production of the second of th	IV.	V		V	V		٧	٧		٧		V	V	1	V			University Viva-Voce

(Signature of Heart of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

Director
I.K.G.P.T.U
Mohali Campus-II

Paper UC/BARCH-504/19 Structure Design-III

Name of the Department: Architecture

Note: Provide Mapping for all courses of all programs offered by the Department

Course Outcome

COLA the end of the course, the students will able to Design Beams, Compression members, trusses for different conditions by applying code provisions along with the knowledge of Rivered and welded joints. Problem Solving PO-g Ethics Individual and team work P Communication Life-long Learning able Outlook Learning Level Focus on Employability / Entrepreneurship

inderstanding and a Yes

Assessment Tools to Measure Attainment of CO Minor Exams, Quiz, End Term Exams

Director

I.K.G.PT.U

Mehali Campus-ii.

Course Outcome ...
CO1: Understand the terminology and basic principles MEP Services. CO2: Develop design skills for MEP layouts in architecture design Problem Solving PO Ethics ual individual and team work Communication Life-long Learning PSO-o

Understanding Jnderstanding

Focus on Employability / Entrepreneurship
yes
yes

Sheet Work, Mid-Term /End Term Examination

Assessment Tools to Measure Attainment of CO Sheet Work, Mid-Term /End Term Examination

Name of the Department: Architecture.

Paper UC/BARCH-505/19 Building Services-II

December 11-20 11-11 11-11

Name of the Department: Architecture. Paper UC/BARCH-506/19 Theory of Design-III

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ral Knowledge olving olving dem tool de	

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

principles, philosophy of design used by masters of modern architects.

Mohali Campana

Assessment Tools to Measure Attainment of CO

Sheet work, site study

5

O. C. S. C.

Course Outcome

OI: At the end of the course, the students we land need of design and apply the same in land (Signature of Head of Depd (agent)

Name of the Department: Architecture.

Paper UC/BARCH-507/19 Landscape Architecture

Design development

Pod Design development

Pod Design development

PSO-o

Learning Level understanding

Employability / Entrepreneurship

Assessment Tools to Measure Attainment of CO Sheet work, site study

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Paper UC/BARCH-508 (A)/19 Green Buildings & Rating System

	Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - Des	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook	
- VOID TO BE A VI	PO-a	PO-b	PO-c	PO-d	PO-e	PO-f	PO-a	PO-h	PO4	PO4	PO-k	PO-I	PSO-m	PSO-n	PSO-o	1

Learning Level Focus on Employability / Entrepreneurship Assessment Tools to Measure Attainment of CO Course Outcome

CO1:1. At the end of the course, the students will able to Understand Green buildings and their rating Sheet work, site study Understanding Employability / Entrepreneurship

Note: Provide Mapping for all courses of all programs offered by the Department

I.K.G.P.T.U
Mohali Campus-li

CO1: At the end of the course, the students will able to Understand Green buildings and their rating Paper UC/BARCH-508 (B)/19 Hill Architecture Architectural Knowledge PO-h POH ividual and team work Pod PO-k anagement and finance Life-long Learning PSO-0 stainable Outlook Understanding Employability / Entrepreneurship Learning Level Focus on Employability / Entrepreneurship

Assessment Tools to Measure Attainment of CO

Sheet work, site study

Name of the Department: Architecture.

Director
LK-B.P.T.U
LK-B.P.T.U



Paper UC/BARCH-508 (C)/19	Emerging	<b>Technologies in Architecture</b>
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hitectural Knowledge	oblem Solving	sign development	nduct Investigations/ Pre - Des	e of Modern tool	cially responsible architecture	vironment and Sustainability	iics	ividual and team work	mmunication	inagement and finance	e-long Learning	alysis and Design Skill	search and Innovation	istainable Outlook	
P-O4	Po-P	PO-c	PO-d	PO-e	PO-f	PO-g	4Od Ethics	PO-i	POH	PO-k	PO-I	PSO-m	PSO-n	PSO-o	Le

	1 5	1 6	l ő	1 8	1 5	S	L L	i iii	<u>_</u>	Ü	Σ	1	4	œ	Ø			
Course Outcome	PO-a	PO-b	РО-с	PO-d	РО-е	PO-f	PO-g	PO-h	PO-i	PO-J	PO-k	PO-I	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: At the end of the course, the students will able to Understand use of various emerging technologies and their application in Architectural Design and Construction.	,			,		V		v		v	V	V	v		v	Understanding	Employability / Entrepreneurship	Sheet work, site study
O2:Know about technical advances and advantages of computational technologies through the use of omputer modelling, rendering and digital fabrication, with focus on the exploration of space and place					,							v		V		Understanding	Employability / Entrepreneurship	Sheet work, site study
making through the use of computer modelling and design construction CO3: Have an understanding of Building Automation for building types and their applicability to different building services.		1										,				Understanding	Employability / Entrepreneurship	Sheet work, site study

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LKG.RT.U
Mohali Campus-li



CO1: At the end of the course, the students will able to gain knowledge of product design.	-	-	_	_	_													
Course Outcome	PO-a	PO-b	PO-c	PO-d	PO-e	PO-f	PO-g	PO-h	PO-I	PO-J	PO-k	POH	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
	Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - Des	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook			

(Signature of Head of Department)

Director

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Mohali Campus-N

Director

LK.G.P. N. Campus-II

CO1: At the end of the course, the students will able to understand the concept on architecture acoustics,	Course Outcome	
se concept on architecture acoustics.		
<	PO-a	Architectural Knowledge
	PO-b	Problem Solving
<	РО-с	Design development
	PO-d	Conduct Investigations/ Pre - De
<	PO-e	Use of Modern tool
<	PO-f	Socially responsible architecture
<	PO-g	Environment and Sustainability
<	PO-h	Ethics
<	POH	Individual and team work
<	POJ	Communication
	PO-k	Management and finance
<	PO-I	Life-long Learning
<	PSO-m	Analysis and Design Skill
<	PSO-n	Research and Innovation
<	PSO-o	Sustainable Outlook
Understanding	Learning Level	
Employability / Entrepreneurship	Learning Level Focus on Employability / Entrepreneurship	

Assessment Tools to Measure Attainment of CO

Sheet work, site study

Paper UC/BARCH-508 (E)/19 Architecture Acoustics Name of the Department: Architecture.

Paper UC/BARCH-509 (A)/19 Sociology for Architects / Fundam

chitectural Knowledge blem Solving and development and under trool anduct trivestigations/ Pre-D	Course Outcome	PO-a	PO-b	PO-c	PO-d	2 PO-e	PO-f	PO-g	PO-h	PO-I	PO-I	PO-k	POJ	PSO-m	PSO-n	PSO-o	+
		rchitectural Knowledge	roblem Solving	esign development	onduct Investigations/ Pre - D	se of Modern tool	ocially responsible architectur	ustainab	hics	dividual and team work	ommunication	anagement and finance	fe-long Learning	nalysis and Design Skill	esearch and Innovation	ustainable Outlook	

Note: Provide Mapping for all courses of all programs offered by the Department

Director

LK.G.P.T.U

Mohali Campus-H

Learning Level Focus on Employability / Entrepreneurship

Employability / Entrepreneurship

Understanding

Assessment Tools to Measure Attainment of CO

Sheet work, site study

Paper UC/BARCH-509 (B)/19 Health Education- I				Τ σ	_							_			T	1			
	chitectural Knowledge	roblem Solving	esign development	onduct Investigations/ Pre - De	se of Modern tool	ocially responsible architecture	nvironment and Sustainability	thics	ndividual and team work	communication	Aanagement and finance	ife-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook				
	¥ .	00 4	DO a	DO d	200	PO-f	PO-a	PO-h	POsi	PO-I	PO-k	PO-I	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurshi	p Assessment Tools to Measure Attainment of	of CO
	PO-a	PU-B	PU-C	FU-4	10-6	104	10-9	1011	101	,								Sheet work, site study	
CO1:At the end of the course, the students will able understand the importance of health education.	V		V		V	V	V	v	v	v		v	v	v	v	Understanding	Employability / Entrepreneurship	Sheet work, site study	

Director
I.K.G.P.T.U
Mohali Campus-II

Paper UC/BARCH-509 (C)/19 Music ( Vocal Instru

9 (C)/19 Music ( Vocal, Instrumental)		,	,													
	nitectural Knowledge	olem Solving	ign development	duct Investigations/ Pre - Des	of Modern tool	ially responsible architecture	ironment and Sustainability	S	vidual and team work	nmunication	lagement and finance	long Learning	lysis and Design Skill	earch and Innovation	tainable Outlook	
	Arch	Prot	Des	Con	Use	Soci	Env	Ë	Indiv	Соп	Man	Life	Ana	Res	Sus	
	DO a	DO h	DO a	DO 4	DO	00 4	DO a	DO h	DO I	DO I	DO L	DOL	DOO m	Den n	DOO a	Learning Le

Focus on Employability / Entrepreneurship Assessment Tools to Measure Attainment of CO Understanding Employability / Entrepreneurship Sheet work site study

Note: Provide Mapping for all courses of all programs offered by the Departmen

Director

I.K.G.P.T.U

Mohali Campus-in

Paper UC/BARCH-509 (D)/19 Laser/ Printing Technology

be having the detail knowledge of various printing processes and the recent development in this industry and they will implement their knowledge for print production operations	v		V		,	,	,	v	,							Understanding	Employability / Entrepreneurship	Sheet work, site study
CO1: The learning outcome of this course is expected that after completion of this course the students will	PU-a	PO-B	PO-c	PO-d	РО-е	PO-f	PO-g	PO-h	PO-I	PO-J	PO-k	PO-I	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
Course Outcome	Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - De	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook			

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

Direction

I.K.G. F. E.S.

Mohali Campus-li

Name of the Department: Architecture.
Paper UC/8ARCH-509 (E)/19 Greative Writing

Assessment Tools to Measure Attainment of CC Sheet work, site study Sheet work, site study PSO-n PSO-o Learning Levei Focus on Employability / Entrepreneurship Employability / Entrepreneurship Employability / Entrepreneurship Course Dutcome

(Other of outside Withing will write poems, short stories, plays, news stories, comic strips, children's books, an autobography and other types of writing that express creativity
(OD2. Stordents will also study writing samples from professional writers. (Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Departmen

LK.G.P.T.U
LK.G.P.T.U
LK.G.P.T.U

Paper UC/BARCH-510 /19 Educational Tour II/ Summer Training-II/Vacation Assign

Name of the Department: Architecture.

(Signature of Head of Dynartment) emeter the four report shall be submitted to the class coordinator for assessment, ints should be encourage undertaking approx. O4 week summer training in a design / on/allied office. Alternatively student should also be encouraged to do any online course of ation during the summer vacation. P Conduct

PSO-o Learning Level Focus on Employability / Entrepreneurship

Sheet work, site study

Architectural Knowledge Problem Solving PO-g Life-long Learning

L.K.G.P.T.U
L.K.G.P.T.U
L.K.G.P.T.U

Paper UC/BARCH-601 /19 Architectural Design -VI					_												
Course Outcome	Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - Des	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outbook	Learning Level	Focus on Employability / Entrepreneurship
CO1: At the end of the course, the students will able understand Design of Public Buildings with complex	1	1.00	100	1.00	100	101	109	1011		101	10-1		100-111	10041			
functional demands and technical inputs.	v	v	V		V		V	v		V	8	v		٧	v	Understanding	Employability / Entrepreneurship
CO2:Nature of urban complexes, scale and other elements of urban design to be incorporated.	٧	٧	V		٧		٧	٧		٧		٧		٧	٧	Application	Employability / Entrepreneurship
CO3:They will also be well versed with various physical factors of architecture design and equipped with the	2															Understanding	Employability / Entrepreneurship

(Signature of Head of Department)

norms of barrier free design

Note: Provide Mapping for all courses of all programs offered by the Department

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Mohali Campus-11

Assessment Tools to Measure Attainment of CO Minor Exams, Quiz, End Term Exams

Minor Exams, Quiz, End Term Exams Minor Exams, Quiz, End Term Exams

Employability / Entrepreneurship

Paper UC/BARCH-602 /19 History of Architecture-III

Research and Innovation
Sustainable Outlook

-9 D												■	02	(O)			
a r	O-b	PO-c	PO-d	РО-е	PO-f	PO-g	PO-h	PO4	PO-J	PO-k	PO-I	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
		٧			٧	٧			V	V	V		٧	٧	Understanding	Employability / Entrepreneurship	Sheet work, site study
	1	٧		V				V			V	V	V	V	Analysis	Employability / Entrepreneurship	Minor Exams, Quiz, End Term Exams
٧			٧	٧			٧			٧			٧		Application	Employability / Entrepreneurship	University end term examinations
	v	V	v v	v v	v v v	v v v	v v v	v v v v	v v v v	V V V V V	v v v v v v v v v v v v v v v v v v v			V	V		V         V         V         V         V         V         Understanding         Employability / Entrepreneurship           V         V         V         V         V         V         Employability / Entrepreneurship

(Signature of Head of Gepartment)

Tirector

I.K.G.P.T.U

Mohali Campus-H

Paper UC/BARCH-603 /19 Estimating Costing & Specifications- I																_		
	Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - Des	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook			
Course Outcome	PO-a	PO-b	PO-c	PO-d	РО-е	PO-f	PO-g	PO-h	PO-1	PO-J	PO-k	PO-	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1:At the end of the course, the students will able Scope of the subject limited to preparing detailed estimates and cost of two-storeyed residential buildings in masonry and reinforced cement concrete.	v		v			v	v			v	v	v		v	v	Understanding	Employability / Entrepreneurship	Sheet work, site study

(Signature of Head Separtment)

Note: Provide Mapping for all courses of all programs offered by the Department

Director

I.K.G.P.T.U

Mohali Campus-II

Director

I.K.G.P.T.U

Nobali Campus-ii

Note: Provide Mapping for all courses of all programs offered by the Department

(OI). At the end of the course, the students will able 5 cope of the subject limited to preparing detailed estimates and cost of two-storeyed residential buildings in maximity and restricted sement concrete (Signature of Head Appartment) Architectural Knowledge Problem Solving Use of Mo PO-1 PO Environ Individual and team work Communication Management and finance Life-long Learning nalysis and Design Skill

> Learning Level Focus on Employability / Entrepreneurship Employability / Entrepreneurship

Sheet work, site study

Assessment Tools to Measure Attainment of CO

1 3 C

Paper UC/BARCH-604 /19 Architecture Legislation - I Name of the Department: Architecture.

Paper UC/BARCH-605 /19 Building Construction & Materials-VI

(Signature of Head of Department)

Director

LK.G.RT.U

Mobali Campus-ii

Paper UC/BARCH-606 /19 Structure Design (Project) -IV

	Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - Des	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	ndividual and team work	Communication	Management and finance	ife-long Learning	nalysis and Design Skill	esearch and Innovation	ustainable Outlook		
	PO-a	PO-b	PO-c	PO-d	РО-е	PO-f	PO-g	PO-h	PO-i	PO-	PO-k	PO-I	PSO-m	200	Ø		
students	T					-		1041	104	103	FU-K	P04	P50-m	PSO-n	PSO-0	Learning Level	Focus on Employability / Entrep
	v	٧	v	v	v			v	v	v		٧	v			understanding and a	Employability / Entrepreneurship

Course Outcome.

CO1: At the end of the course student will able to become aware overall intent is to make stuunderstand construction/detailing of work associated with interior finishes and works.

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Focus on Employability / Entrepreneurship

Assessment Tools to Measure Attainment of CO

Sheet work, site study

Paper UC/BARCE

Paper UC/BARCH-607 /19 Building Services-III				T 10												1		
	rchitectural Knowledge	roblem Solving	esign development	onduct Investigations/ Pre - Des	se of Modern tool	ocially responsible architecture	nvironment and Sustainability	thics	dividual and team work	ommunication	lanagement and finance	ife-long Learning	nalysis and Design Skill	esearch and Innovation	ustainable Outlook			
	PO :	PO	PO-	PO-d	PO-6	e PO-f	PQ-q	PO-h	POI	DO:	PO k	BO I	DSO m	PSO-n	PSO-0	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
Course Outcome																		
	1	1	IV	1	N			N. O.I.	-		FU-K	V	V V					Sheet Work, Mid-Term /End Term Examination
CO1: Know about the working principles of the building.	V	1	V	-	V		-	V	Individ	lu V	PO-K	V	V V		V	understanding understanding	Employability / Entrepreneurship Employability / Entrepreneurship	
	V V	V	V		V			V V	Individ	lu v lual	FU-K	V V	V V	V	V	understanding	Employability / Entrepreneurship	Sheet Work, Mid-Term /End Term Examination

Note: Provide Mapping for all courses of all programs offered by the Department

Director
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10 A

Paper UC/BARCH-607 /19 Building Services-III

The second secon																	
	Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - Des	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook		
Course Outcome	PO-a	PO-b	РО-с	PO-d	РО-е	PO-f	PO-g	PO-h	PO4	PO-J	PO-k	POH	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship
CO1: Know about the working principles of the building.	N	v.	V	1	V			V	Individu	V		V	V		V	understanding	Employability / Entrepreneurship
CO2: Understand the role of services and would be able to design appropriate space, location for it.	V							V	Individu	ual		N				understanding	Employability / Entrepreneurship
CO3: Know about the acoustics materials where, how and why we are using these materials	V	V	V		V			V	Team w	vork		V	V	V		understanding	Employability / Entrepreneurship
CO4: Understand the importance of intelligent buildings	J		T				J	J	Individe	and least		J				understanding	Empleyability / Entrangagerabia

CO4: Understand the importance of intelligent buildings.

Note: Provide Mapping for all courses of all programs offered by the Department

Employability / Entrepreneurship Employability / Entrepreneurship

understanding

Assessment Tools to Measure Attainment of CO

Sheet Work, Mid-Term /End Term Examination Sheet Work, Mid-Term /End Term Examination Sheet Work, Mid-Term /End Term Examination

Sheet Work, Mid-Term /End Term Examination

Director LK.G.P.T.U

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Paper UC/BARCH-608 /19 Climate & Architecture (Sustainable Design) -III

Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - Des	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook	
PO-a	PO-b	PO-c	PO-d	РО-е	PO-f	PO-g	PO-h	PO-	PO-j	PO-k	PO4	PSO-m	PSO-n	PSO-o	1

CO1:1. At the end of the course student will able to Become aware overall intent is to make students understand construction/detailing of work associated with interior finishes and works.

n PSO-o Learning Level Focus on Employability / Entrepreneurship Employability / Entrepreneurship

Assessment Tools to Measure Attainment of CO

Sheet work, site study

Note: Provide Mapping for all courses of all programs offered by the Department

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Paper UC/BARCH-619 /19 Mentoring and Professional Development-III

Madam	ponsible archi t and Sustain d team work fron	morent and Sust
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Assessment Tools to Measure Attainment of CO

Indivial and Group Presentations and Discussions, Activities

Course Outcome
CO1: Personality Development and Holistic Development

Note: Provide Mapping for all courses of all programs offered by the Department

Director

I.K.G. P.T.U

Mehali Campus-II

	joining and working with practicing Architects/Architectural firms for one complete semester.	v	v	v	v		v	v		v	v		v	v	v		Understanding	Employability / Entrepreneurship	University Viva- Voce
Contact Onfrome    Contact Onfrome   Contact Onf	CO1:1. At the end of the course, the students will able to learn the intricacies of Architectural Profession by		1	1.00	- 5 0			. 5 9				1.0%			. 50 11	. 30-0	g cever		
olving elopment elopment elopment dem tool geomible architecture and team work and team work and finance earning nd Design Skill d Design Skill e Outbook	Course Outcome	Architectur	Problem S	Design de	Conduct Ir	Se of Mo	Socially re	5 Environme	H-O9	Individual .	Communic	Managem	Life-long L	a-O'sd	Sesarch Sesearch	Sustainabl	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
		ral Knowledge	olving	velopment	vestigations/ Pre - De	dem tool	sponsible architecture	ent and Sustainability		and team work	ation	ent and finance	earning	nd Design Skill	and Innovation	e Outlook			

Director

I.K.G.P.T.U

Mohali Campus-II

O1.1 At the end of the course, the students will able to will be able to design complex health care cademic projects, design for pandemics situations, design Terminals of air/railway/bus, design Light industrial buildings for different uses.	V PO-a	V 7	V PO-c	V PO-d	РО-е	V PO-1	PO-g	PO-h	V PO4	PO-J	PO-k	V PO-1	PSO-m	PSO-n	PSO-o	Understanding	Focus on Employability / Entrepreneurship  Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO  University Viva- Voce
Course Outcome	Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - De	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook	Learning Level		

Director I.K.G.P.T.U Mohali Campus-II

-1

Name of the Department: Architecture.

Paper UC/BARCH-802 /19 Comprehensive Smart Village Development-

3 Comprehensive Smart Village Development-I																		
	Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - Des	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook			
course, the students will able to deal with environment, policy making and	ro-a	FO-0	FU-C	PU-0	РО-е	PU-T	PU-g	PO-h	P04	PO-1	PO-k	PO-I	PSO-m	PSO-n	PSO-0	Learning Level	Focus on Employability / Entrepreneurship	į

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Departmen

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Assessment Tools to Measure Attainment of CO

Sheet work, site study

Director LK.G.P.T.U

Mohali Campus-II

-

Name of the Department: Architecture.

Paper UC/BARCH-803 /19 Urban Design

	chitectural Knowledge	oblem Solving	sign development	induct Investigations/ Pre - Des	e of Modern tool	cially responsible architecture	vironment and Sustainability	lics	ividual and team work	mmunication	nagement and finance	-long Learning	alysis and Design Skill	search and Innovation	tainable Outlook	
J 20/2 200	A	D.	De	<u>ರ</u>	S	So	Ë	Ethic	pu	3	N N	Fe	Ana	Res	Sus	
12011	PO-a	PO-b	PO-c	PO-d	РО-е	PO-f	PO-g	PC-h	PO-I	PO-j	PO-k	PO-I	PSO-m	PSO-n	PSO-o	102

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

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Mohali Campus-II

Paper UC/BARCH-804 /19 Housing

	Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - Des	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook				0000
Course Outcome	PO-a	PO-b	PO-c	PO-d	РО-е	PO-f	PO-g	PO-h	POH	PO-j	PO-k	PO-I	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO	
CO1:1. At the end of the course, the students will able to will be able to Analyze what are the housing issues we are facing. Understand how we can contribute to eliminate this housing problem.	v		v	v	v	v	v	v	v	٧		v	V	٧	V	Understanding	Employability / Entrepreneurship	Sheet work, site study	
CO2:2. Know about what our government is doing to provide basic comfortable environment for the	٧		٧	٧	٧	٧	٧	٧	٧	٧		٧	٧	٧	٧	Understanding	Employability / Entrepreneurship	Sheet work, site study	]

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

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I.K.G.P.T.U
Wohali Campus-II

Paper UC/BARCH-805/19 Building Construction & Materials-VII

Paper UC/BARCH-805/19 Building Construction & Materials-VII	_	_	,					,		,						_	
	Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - Des	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook		
Course Outcome	PO-a	РО-Ь	РО-с	PO-d	РО-е	PO-f	PO-g	PO-h	PO-1	PO-	PO-k	POH	PSO-m	PSO-n	PSO-0	Learning Level	Focus on Employability / Entrepreneurship
CO1: 1. At the end of the course, the students will be able to familiar with special constructional details, finishing & furnishing, extension & expansion joints and basements with details.	v	V	v	v		v	v		v	V		v	v	v		Understanding	Employability / Entrepreneurship

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

Director

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Mahali Campus-II

Assessment Tools to Measure Attainment of CO

University End Term Examination
Minor Exams, Quiz, End Term Exams

Paper UC/BARCH-806 (A) /19 GIS/ Remote sensing/ Geospatial Technologies/Geomatics Techniques for Architects

	rchitectural Knowledge	roblem Solving	esign development	onduct Investigations/ Pre - Des	se of Modern tool	ocially responsible architecture	nvironment and Sustainability	hics	dividual and team work	ommunication	anagement and finance	fe-long Learning	nalysis and Design Skill	esearch and Innovation	ustainable Outlook			
Course Outcome	PO-a	PO-b	PO-c	PO-d	PO-e	PO-f	PO-q	PO-h	PO-i	PO-I	PO-k	PO-I	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	į
CO1: The course will enable the students understand The Principles of Remote sensing, satellite images and Applications of remote sensing.					V								٧				V	

Applications of remote sensing.
CO2:The GIS and its Data models.
CO3:The Global Navigation Satellite System (Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

Description LK.G.P.T.U

Assessment Tools to Measure Attainment of CO

MST, Assignments and End Semester Examination
MST, Assignments and End Semester Examination
MST, Assignments and End Semester Examination

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

COI:1.At the end of the course, the students will able to will be able to Analyze the different principles and Architectural Knowledge Problem Solving Design development Conduct Investigations/ Pre - De Use of Modern tool Socially responsible architecture Environment and Sustainability Ethics

Polylindividual and team work Communication

> Management and finance Life-long Learning

PSO-n PSO-o

Learning Level Focus on Employability / Entrepreneurship

Assessment Tools to Measure Attainment of CO Sheet work, site study

Minor Exams, Quiz, End Term Exams

Understanding

Paper UC/BARCH-806 (B)/19 Indian Architecture/ Vastu Shastra Name of the Department: Architecture.

Director

LK.G.P.T.U

Nohali Campus-II

Paper UC/BARCH-806 (C)/19 Advance Building Materials

															1
Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - Des	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook	
no -	DO H	00.0	DO d	PO a	PO t	PO-a	PO-h	POJ	POJ	PO-k	PO4	PSO-m	PSO-n	PSO-0	Lea

v	Archite	Proble	Design	Condu	Use of	Social	Enviro	Ethics	Individ	Comm	Manag	Life-lo	Analys	Resea	Susta			
Course Outcome	PO-a	PO-b	PO-	c PO-d	РО-е	PO-1	PO-g	PO-h	PO-1	PO-	PO-k	PO4	PSO-m	PSO-n	PSO-0	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1:1. At the end of the course, the students will able to will be able to understand various advanced building materials in respect of their, composition, uses, properties and applications in the construction			,	,	,	,	,	,	V	J		V			V	Understanding	Employability / Entrepreneurship	Sheet work, site study
sector.	-V	+	- V		+	+	+	+	+	+	_	+	1				Minor Exams, Quiz, End Term Exams	
	+-	+	+	+	+	+	+	+	+		+	_	1					

(Signature of Head of Department)

Director LK.G.P.T.U

Achali Campus-II

Paper UC/BARCH-806 (D)/19 Retail Design

Paper UC/BARCH-806 (D)/19 Retail Design			_	1 10		_	_	_	_	_	1	1				7	
	chitectural Knowledge	oblem Solving	sign development	anduct Investigations/ Pre - Des	se of Modern tool	ocially responsible architecture	vironment and Sustainability	hics	dividual and team work	ommunication	anagement and finance	e-long Learning	nalysis and Design Skill	esearch and Innovation	ustainable Outlook		
		100	0	0	5	S	- iii	- W	_ C	0	2	201	- P000	000-	000		Facus on Employed life ( Entrangel mobile
Course Outcome	PO-a	1 PO-b	PO-	PO-d	10-е	PO-1	PO-g	1 PO-h	104	1 40-1	1 PO-K	104	PSO-m	PSO-n	PS0-0	Learning Level	Focus on Employability / Entrepreneurship
CO1:1. At the end of the course, the students will able to design retail outlet.	V		V	V	V	V	V	V	V	V		V	V	V	٧	Understanding	Employability / Entrepreneurship
																	Minor Exams, Quiz, End Term Exams

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

Director

I.K.G.P.T.U

Lobali Campus

Assessment Tools to Measure Attainment of CO

Sheet work, site study

Paper UC/BARCH-806 (E)/19 Advance Structure Systems

Taper Ocyonical Society of Advance Structure Systems		_	_	T 10	_					_		_	_					
	Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - Des	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook			
Course Outcome	PO-a	PO-b	PO-c	PO-d	РО-е	PO-f	PO-g	PO-h	P04	PO-J	PO-k	PO4	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1:1. It addresses the contemporary exterior envelope with an emphasis on their performance attributes and advanced technologies.	V		V	v	V	V	V	v	V	V		V	v	V	V	Understanding	Employability / Entrepreneurship	Sheet work, site study
CO2:2. Understand how we can contribute to eliminate this housing problem. Know about what our	٧		V	٧	٧	٧	٧	٧	٧	V		٧	٧	٧	٧	Understanding	Employability / Entrepreneurship	Sheet work, site study

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

CALLY CAMPUS-II

Paper UC/BARCH-807 (A)/19 Ekistics

Paper UC/BARCH-807 (A)/19 Existics	_							-									
	Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - Des	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook		
Course Outcome	PO-a	PO-b	PO-c	PO-d	РО-е	PO-f	PO-g	PO-h	PO-I	PO-	PO-k	PO-I	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneur
CO1:1. This course intends to develop an understanding the evolution of settlement planning.																	Sheet work, site study
																	Minor Exams, Quiz, End Term Exams

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

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Assessment Tools to Measure Attainment of CO

Paper UC/BARCH-807 (B)/19Art Appreciation

les qualities that identify all great art.

V introduce the students to the importance of art in today's world and the purposes art has served. V indexts and artistic intent and expression through basic element of art and architecture and to

able to gain knowledge and understanding of the universal

Architectural Knowledge Problem Solving

Conduct Investigations/ Pre - Des

Environment and Sustainability

Individual and team work Communication Management and finance Life-long Learning

Use of Modern tool

Ethics

PSO-m

PSO-0

Employability / Entrepreneurship Employability / Entrepreneurship
Employability / Entrepreneurship

Sheet work, site study
Sheet work, site study
Sheet work, site study

Assessment Tools to Measure Attainment of CO

for all courses of all programs offered by the Department

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Nonali Campus-II

Paper UC/BARCH-807 (C)/19 Industrial / Prefab Technologies

rchitectural Knowledge	
roblem Solving	
esign development	
onduct Investigations/ Pre - Des	
ise of Modern tool	
ocially responsible architecture	
Environment and Sustainability	
Ethics	
ndividual and team work	
communication	
danagement and finance	
Ife-long Learning	
malysis and Design Skill	
esearch and Innovation	
sustainable Outlook	

	I A	0	0	0	1 5	S	- W	i iii	5	0	2	1 2	4	000	(2)			
Course Outcome	PO-a	PO-b	РО-с	PO-d	PO-e	PO-f	PO-g	PO-h	POH	PO-	PO-K	PO4	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: At the end of the course, the students will able to describe various structural systems and standard												1,				Understanding	Employability / Entrepreneurship	Sheet work, site study
organizing requirements.  CO2:Identify and differentiate structural behaviour of building elements. Design building elements and	V	-	V	V	V	V	V	V	V	V		V	V	V	V	Application	Employability / Entrepreneurship	Sheet work, site study
CO3: Identify and describe working principles of various joints. Design and detail precast and activities by				1.	1.	1,		1,				1.,	.,	,	,	Analysis	Employability / Entrepreneurship	Sheet work, site study

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Departmen

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Director
I.K.G.P.T.U
Mohali Campus-il

Director L.K.G.P.T.U

(Signature of Head of Department)

Sheet work, site study	Employability / Entreprenahip	Understanding	٨	٨		^ ^		^	^	1		^	٨	^	٨	٨		^	interiors, and to foster creative ability and inculcate skills to understand and conceive architectural design.
											-								At the end of the course, the students will able the interior Design principles and their applications in
OD to InsmnistIA stusseM of clooT insmeasesA	Focus on Employability / Entrepreneurship	рала ријитеат	o-029	D-OS9	m-OS9	FOG	X-09	FOd	FOG	4-04	D-04	1-00	1 a-0	9 b-0	d 3-6	04	0-09 €	DO	a oling asino

Paper UC/BARCH-807 (D)/19 Interior Architecture & Space Programs

Name of the Department: Architecture.

6

Name of the Department: Architecture.

Paper UC/BARCH-807 (E)/19 Building Information Modelling (BIM)/ Advance Computer Software's

	chitectural Knowledge	oblem Solving	ssign development	anduct Investigations/ Pre - Des	se of Modern tool	icially responsible architecture	vironment and Sustainability	Ethics	dividual and team work	mmunication	inagement and finance	s-long Learning	alysis and Design Skill	search and Innovation	stainable Outlook	
-	1 4	0.	Ŏ.	Ů	5	S	- iii			S	Š	5	4	e e	Su	
	PO-a	PO-b	PO-c	PO-d	PO-e	PO-f	PO-g	PO-h	PO-i	PO-	PO-k	PO-I	PSO-m	PSO-n	PSO-o	Lez

all the way through to construction, maintaining and finally de-commissioning.	٧		v	٧	٧	v	v	v	v	v		V	v	v	v	Understanding	Employability / Entrepreneurship	Sheet work, site study
CO2: BIM is the management of information through the whole life cycle of a built asset, from initial design				-	-	+	1	+	+	1	-	1	IV.	V	V			
environment), and it shares information across these disciplines.	V	1 /	v	v	v	v	V	V	V	V		1,	J.		ļ.,	Understanding	Employability / Entrepreneurship	Sheet work, site study
between engineers, owners, architects and contractors in a three dimensional environment (common data		1 /	ì	1	1	1	i	1		1		i				lite de set se de se		
COLAC the end of the course, the students will able to Understand that BIM is used to collaboration							1	1	1	1	-	1	1.00	10011	100-0	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
Course Outcome	PO-a	PO-b	PO-C	PO-d	РО-е	PO-f	PO-a	PO-h	PO-i	PO-I	PO-k	POJ	PSO-m	PSOn	DSO o	Learning Level	F	

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

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Mohali Gampus-II

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Paper UC/BARCH-808 A- E /19 Open Elective- III/Mooc Swayan

aper UC/BAKCH-sus A- E /19 Open Elective- III/Mooc Swayam				- Des		cture	oility										
	ctural Knowledge	n Solving	development	t Investigations/ Pre	Modern tool	responsible archite	ment and Sustainat		ial and team work	ınication	ement and finance	g Learning	s and Design Skill	ch and Innovation	able Outlook		
	Archited	Problem	Design	Conduc	Use of h	Socially	Environ	Ethics	Individu	Commu	Manage	Life-lon	Analysis	Resean	Sustain		110
ourse Outcome	PO-a	PO-b	РО-с	PO-d	РО-е	PO-f	PO-g	PO-h	PO-I	PO-	PO-k	PO-1	PSO-m	PSO-n	PSO-o	Learning Level	Focus o

Course Outcome

OCUSTNE ist of major domain of MOCCs courses are attached in the presented & the department will have a MOCC coordinator who will display the list of MOOC in every semester.

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OCUSTNE ist of major domain of MOCC in every semester.

OCUSTNE ist of major domain of MOCC in every semester.

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

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Paper UC/BARCH-901 /19 Architectural Design -VIII

Name of the Department: Architecture.

Provide Mapping for all courses of all programs offered by the Department

Director V.

ICO2: Evolve design focusing on form seneration and appropriate Structural system.
CO3: Conduct simple architectural research as the basis for architectural design projects. Develop skills to design large urban level built environments and perceive future needs.

(Signature of Heal of Department) students will able to Design large scale campus environments with sing the significance of user experience in built environments. Architectural Knowledge Problem Solving Design development O Conduct Investigations/ Pre - Des Poso Ethics o Individual and team work Management and finance Po Life-long Learning PSO-m Learning Level Employability / Entrepreneurship Employability / Entrepreneurship Focus on Employability / Entrepr mployability / Entrepreneurship Assessment Tools to Measure Attainment of CO University End Term Examination University End Term Examination
University End Term Examination

222

IARCH-902 /19 Research Methodology & Dissertation																1
	Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - Des	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook	l ear

Assessment Tools to Measure Attainment of CO earning Level Focus on Employability / Entrepreneurship CO1:The end of the course, the students will able to – explain key research concepts and issues read, Understanding Employability / Entrepreneurship Sheet work, site study

Note: Provide Mapping for all courses of all programs offered by the Department

comprehend, and explain research articles in their academic discipline.

Director

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Mahali Campus-II

Paper UC/BARCH-903 /19 Construction Management

Note: Provide Mapping for all courses of all programs offered by the Department

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Mohali Campus-II

Paper UC/BARCH-904 /19 Building Construction & Materials-VIII			_	T (0					_	_	_			_	T				
	Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - De	Jse of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	ndividual and team work	Communication	Management and finance	Life-long Learning	Analysis and Design Skill	Decearch and Innovation		Sustainable Outlook			
Course Outcome	PO-a	PO-b	PO-c	PO-0	PO-e	PO-f	PO-g	PO-h	PO-	PO-	PO-	k PO	PSO-	m PS	0-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: At the end of the course, the students will able to will be able To make students aware and familiar															1		Understanding	Employability / Entrepreneurship	Sheet work, site study

apping for all courses of all programs offered by the Department

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Sohali Campus-II

Paper UC/BARCH- 905 (A) Town & Country Planning Name of the Department: Architecture.

Problem Solving Design development Conduct Investigations/ Pre - De P Ethics Individual and team work Poc P Life-long Learning

Assessment Tools to Measure Attainment of CO

Director

LK.G.P.T.U

Mohali Campus-II

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Paper UC/BARCH- 905 (B) Art & Architecture

chitectural Knowledge	oblem Solving	esign development	onduct Investigations/ Pre - Des	se of Modern tool	ocially responsible architecture	nvironment and Sustainability	thics	idividual and team work	ommunication	anagement and finance	ife-long Learning	nalysis and Design Skill	esearch and Innovation	ustainable Outbook	
No.	0	0	0	5	Ø.	Ш	DO h		DO I	2	PO I	D00 m	DSO n	DSO o	ł,

Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations | Conservations

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Note: Provide Mapping for all courses of all programs offered by the Departmen

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Paper UC/BARCH- 905 (C) Building Maintenance	chitectural Knowledge	oblem Solving	esign development	onduct Investigations/ Pre - Des	se of Modern tool	ocially responsible architecture	nvironment and Sustainability	thics	dividual and team work	ommunication	anagement and finance	fe-long Learning	nalysis and Design Skill	esearch and Innovation	ustainable Outlook		
Course Outcome	PO-a	PO-b	PO-c	PO-d	PO-e	PO-f	PO-g	PO-h	PO-	PO-J	PO-k	PO-I	PSO-m	PSC-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship
CO1:L. At the end of the course, the students will able to — Comprehend the concept of retrofitting in buildings, its needs and methods. Acquire knowledge on the various techniques of retrofitting for various building components, like beams, stabs, column of the control of	V		v	v		v		v	v		v		v	v		understanding	Employability / Entrepreneurship

Note: Provide Mapping for all courses of all programs offered by the Department

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I.K.G.P.T.U

Mohali Campus-II

Assessment Tools to Measure Attainment of CO

ersity End Term Examination

	$\neg$																
Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - Des	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook			
PO-	a PO-	b PO-	c PO-d	РО-е	PO-f	PO-g	PO-h	PO-I	PO-	PO-k	PO-I	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
,		V	ļ		V	V	v	v	,		,	v	,	V	Understanding	Employability / Entrepreneurship	Sheet work, site study
4	A DArchitectural Knowledge																e e

Director

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Mohali Campus-II

Paper UC/BARCH- 905 (E) Advance Digital Architecture

Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - Des	Jse of Modern tool	Socially responsible architecture	Environment and Sustainability	thics	ndividual and team work	Communication	Management and finance	ife-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook	
PO-a	PO-b	PO-c	PO-d	РО-е	PO-f	PO-g	PO-h	PO-I	PO-j	PO-k	PO4	PSO-m	PSO-n	PSO-o	Learning Level

with the help of application to software.

(Signature of Head Openartment)

Note: Provide Mapping for all courses of all programs offered by the Department

CO1:At the end of the course, the students will able to - understand the fundamental of digital architecture

Nohali Campus-II

Understanding

Focus on Employability / Entrepreneurship

Employability / Entrepreneurship

Assessment Tools to Measure Attainment of CO

Sheet work, site study

Paper UC/BARCH- 906 (A) Traffic & Transportation

Taper oc/paners soo (A) frame a transportation																
Course Onto the	Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - Des	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook	
	PO-a	PO-b	PO-c	PO-d	PO-e	PO-f	PO-g	PO-h	PO-i	PO-	PO-k	PO4	PSO-m	PSO-n	PSO-0	Learning Level
CO1:At the end of the course, the students will able to - Exposure to basic understanding of transport			1			1	1	1	1	-	1	1	1	1	-	Tarana de cerei
planning and management in urban areas	1.,	.,	1	1		1	1	1				1	1	1	1	understanding

planning and management in urban areas.

Note: Provide Mapping for all courses of all programs offered by the Department

Director

LK.G.F.T.U

Matali Campus-N

understanding

Focus on Employability / Entrepreneurship

Employability / Entrepreneurship

Assessment Tools to Measure Attainment of CC

Minor Exams, Quiz, End Term Exams

X

Name of the Department: Architecture.

Paper UC/BARCH- 906 (B) Contemporary Indian Architecture (Modern Trends)

per UC/BARCH- 906 (B) Contemporary Indian Architecture (Modern Trends)																	
	Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - Des	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook		
urse Outcome	PO-a	PO-b	PO-c	PO-d	PO-e	PO-f	PO-g	PO-h	PO-I	PO-	PO-k	PO-I	PSO-m	PSO-n	PSO-0	Learning Level	Focus on Employability / Entrepreneurship
1:At the end of the course, the students will able to – Ability to understand the role of societal																Understanding	5 - L - L - C - C - C - C - C - C - C - C

(Signature of Head of Department

Note: Provide Mapping for all courses of all programs offered by the Department

Architecture in the sub-continent and contemporary architecture of India and the world.

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Director I.K.G.P.T.U Mohali Campus-If

Je je

Assessment Tools to Measure Attainment of CO

Sheet work, site study

Assessment Tools to Measure Attainment of CO

Sheet work, site study

Name of the Department: Architecture.

6

Paper UC/BARCH- 906 (C) Building System Integration & Ma

to the state of th																
ourse Outcome	Architectural Knowledge	O Problem Solving	Design development	Conduct Investigations/ Pre - Des	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook	
The state of the s	FO-a	1 10-0	PO-c	PU-d	PU-e	PO-1	PO-g	PO-h	PO-1	PO-	PO-k	PO-I	PSO-m	PSO-n	PSO-0	IL
1:At the end of the course, the students will able to Understanding of approach for effective	1														-	+

(Signature of Head of Department)

management in building through automated systems and sensors

I.K.G.P.T.U

Muhati Campus-II

Understanding

Learning Level Focus on Employability / Entrepreneurship

Employability / Entrepreneurship



Paper UC/BARCH- 906 (D) Cost effective Construction

t effective Construction														_		1
	Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - Des	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	Individual and team work	Communication	Wanagement and finance	Life-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook	
	DO a	DO h	DO C	PO d	PO.e	PO-f	PO-a	PO-h	POJ	PO.	PO-K	POJ	PSO-m	PSO-n	PSQ-0	lie

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Departmen

Director
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Mahali Campus-II

Paper UC/BARCH- 906 (E) Building Industry Name of the Department: Architecture.

and of the course, the students will able to gain the knowledge of building industry.

Architectural Knowledge Problem Solving

Life-long Learning

Focus on Employability / Entrepreneurship Employability / Entrepreneurship Minor Exams, Quiz, End Term Exams

sing for all courses of all programs offered by the Department

Architectural Knowledge Problem Solving O Design deve

Conduct Investigations/ Pre - De

ndividual and team work Communication

PO-1

PO Enviro

PO4

Understanding

Learning Level Focus on Employability / Entrepreneurship Employability / Entrepreneurship

Assessment Tools to Measure Attainment of CO
Sheet work, site study

Paper UC/BARCH- 907 (A)-907 (E)/19 Open Elective- IV/Mooc Swayam

Name of the Department: Architecture.

(Signature of Head (Department)

COLThe list of major domain of MODC's courses are attached in the preamble 8, the department will have a MODC coordinator who will display the list of MODC in every semester.

Director

LK.G. P.T.U

LK.G. P.T.U

Campus-11

Orector U.T.A. B. M. I Leuquis J. III. III.

ainable Outlook

rch and Innovation

(Signature of Head of Department)

																Ι Α	class coordinator for assessment.
			٨	٨	^ /	1	^	^	^	^	^	^	,	_ ^		1 "	students under faculty supervision . During or after the semester the term report shall be submitted to the
Sheet work, site study	Employability / Entrepreneurship	Understanding			1												COL. The education tout to one day to one of two week duration be encouraged to be undertaken by the
				-	-		101	101	150 1	6.01	1:04	8-04	p-Od	2-04	9-04	6-09	Course Outcome
Assessment Tools to Measure Attainment of CO	Focus on Employability / Entrepreneurship	-o Learning Level	OSG n-OS	q m-osq	FOd	A-09	FOd	rua	m	m	(0	C .	0	0	T	>	
			Sus	5	1 6	2	9	nd:	#	V	8	se	9	esi	8	G.	

sis and Design Skill

Name of the Department: Architecture.

Paper UC/BARCH-1001/19 Architectural Design (Thesis Project) -IX

			The second		200			9 1071	1 04	1.03	LO-V	LO-	1 30-11	F3U-11	P30-0	Treatming Level	Focus on Employability / Entrepreneurship
F	PO-a	PO-b	PO-c	PO-d	РО-е	PO-f	of PO	a PO-h	PO-1	PO-	PO-k	PO-I	PSO-m	PSO-n	Den e	Learning Level	Focus on Employability / Entrepreneurship
	Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - Des	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook		

methods of construction in.

COLLS & Outcome

COL: At the end of the course, the students will able to design Social and Physical environment and

Assessment Tools to Measure Attainment of CO

Sheet work, site study

Director
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Mohali Campus:11



Paper UC/BARCH-1002/19 Professional Practice

Paper UC/BARCH-1002/19 Professional Practice				1 10								_				1	
	Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - De	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook		
Course Outcome	PO-a	PO-b	РО-с	PO-d	РО-е	PO-1	PO-g	PO-h	PO-1	PO-J	PO-k	PO4	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship
CO1: At the end of the course, the students will able to – Become aware and understand the professional and legal aspects of architectural practice and profession in India.	V		V	V	v	V	v	V	V	V		v	v	v	V	Understanding	Employability / Entrepreneurship
CO2: Understand the duties and liabilities of an architect, his client and the contractor with respect to the	V		V	V	٧	٧	V	٧	٧	٧		٧	٧	٧	٧	Understanding	Employability / Entrepreneurship
CO3:Become aware of Arbitration and laws pertaining to it, Valuation and its application in the professional	,		,	,	v	v	V	V	V	v		v	v	v	v	Understanding	Employability / Entrepreneurship

practice
CO4:Understand the Tendering & Contract process applicable to the architectural profession. (Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

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LK.G.P.T.U

Compus-II

Assessment Tools to Measure Attainment of CO

Sheet work, site study

Sheet work, site study

Sheet work, site study

Sheet work, site study

Employability / Entrepreneurship

Paper UC/BARCH-1003/19 Disaster Management

	Architectural Knowledge	Problem Solving	Design development	Conduct Investigations/ Pre - Des	Use of Modern tool	Socially responsible architecture	Environment and Sustainability	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Design Skill	Research and Innovation	Sustainable Outlook		
Course Outcome	PO-a	PO-b	РО-с	PO-d	РО-е	PO-f	PO-g	PO-h	PO-1	PO-j	PO-k	PO-I	PSO-m	PSO-n	PSO-0	Learning Level	Focus on Employability / Entrepreneurship
CO1:At the end of the course, the students will able to — understand various types of disasters their causes, significance and effects of disaster.	'								_			V					

(Signature of Head of Jepartment)

Note: Provide Mapping for all courses of all programs offered by the Department

CO2:Students will gain an understanding of various Disaster Preparedness, Response, management and

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Morbali Gampus-II

Assessment Tools to Measure Attainment of CO

MST's, assignments, End Semester Examination
MST's, assignments, End Semester Examination

- 199



Paper UC/BARCH-1004 (A) Building Economics

chitectural Knowledge culiem Solving ceign development and dem tool and and the architectur cocially responsible architectur cociall	ilysis and Design Skill	stainable Outlook
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Course Outcome	PO-a	PO-b	P0-c	PO-d	PO-e	PO-f	PO-g	PO-h	P0-	PO-	PO-k	PO-1	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: At the end of the course, the students will able to, Recognise mud as an alternate material and to				1.					,		1		J	J.		understanding	Employability / Entrepreneurship	University End Term Examination
inderstand its properties and construction techniques.  O2:Comprehend the various types of alternate construction blocks.	- 1	V	V	V	V	V	+	V	V	V	TV .	V	V	1	V	Application	Employability / Entrepreneurship	University End Term Examination
O3:Gain knowledge on the applications of natural materials such as bamboo and straw in building	1.							.,				,	,		,	Application	Employability / Entrepreneurship	University End Term Examination
construction. CO4:Appreciate the applications of alternate cement based building materials.	V	+	V	V	V	+	V	V	+	V	1	V	V	+	V	Analysis	Employability / Entrepreneurship	University End Term Examination
COS: Critically analyse the cost effective construction techniques through case studies.	v	V	†	V	V	٧	V	V	V		V	V	٧	٧		Analysis	Employability / Entrepreneurship	University End Term Examination

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C/BARCH-1004 (B) Contemporary World Architecture				9	1						-				
	I Knowledge	lving	elopment	restigations/ Pre - Des	em tool	ponsible architecture	nt and Sustainability		nd team work	ation	nt and finance	arning	d Design Skill	nd Innovation	• Outlook
	Architectura	Problem So	Design deve	Conduct Inv	Use of Mod	Socially res	Environmen	Ethics	individual a	Communica	Manageme	Life-long Le	Analysis an	Research a	Sustainable

	A A	à	O	1 0	1 5	S	- W	iii	E.	O	1 2	1 3	- X	œ	S			
Course Outcome	PO-a	PO-b	PO-c	PO-d	РО-е	PO-f	PO-g	PO-h	PO-i	PO-	PO-k	PO-	PSO-m	PSO-n	PSO-	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: At the end of the course, the students will able to - Knowledge about contemporary phase of											1					Understanding	Employability / Entrepreneurship	Sheet work, site study
architecture.	IV		٧	٧	V	V	V	V	V	V	1	V	V	٧	V			
CO2:Understandings of current trends and styles in architecture.	V		٧	٧	٧	V	٧	٧	٧	٧		٧	٧	٧	٧	Understanding	Employability / Entrepreneurship	Sheet work, site study

(Signature of Head of Departmen

Note: Provide Mapping for all courses of all programs offered by the Departmen

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Director L.K.G.P.T.U Mahali Campus-H

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Paper UC/BARCH-1004 (C) High Rise Buildings

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

Underst Emplo Sheet work, site study

Understanding

Employability / Entrepreneurship Employability / Entrepreneurship Employability / Entrepreneurship

Sheet work, site study
Sheet work, site study

Sheet work, site study

Focus on Employability / Entrepreneurship

Assessment Tools to Measure Attainment of CO

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Mohali Gampus-II

CO2:2.Safeguard the stability of a structure through approximate methods.
CO3:3.Understand the importance of service core design and analyse the relation of service planning. the end of the course, the students will able to – Relate the performance of buildings subjected loadings and examine the significance of diverse structural components in a high-rise structure. Architectural Knowledge Problem Solving O Conduct Investigations/ Pre - De PO-f D Environment and Sustaina
D Ethics
D Individual and team work
D Communication Po Management and finance PSCsustainable Outlook Learning Level

Paper UC/BARCH-1004 (D) Architecture Journalism & Photography

2	finalized on year to year	the subject shall be	CO1:Detailed syllabus for	Course Outcome	
	<			a Po	Architectural Knowledge
				ь Ро-	Problem Solving
	V V			° P	Design development
				PO- d	Conduct Investigations/ Pre - Des
	٧ :			РО-е	Use of Modern tool
	٧ .			PO-f	Socially responsible architecture
	٧			PO-g	Environment and Sustainability
	<			- PO-	Ethics
	<			PO-i	Individual and team work
	<			Po-	Communication
				× Po-	Management and finance
	<			P0-	Life-long Learning
	۷ .			PO- PSO- I m	Analysis and Design Skill
	<			PS O-n	Research and Innovation
	<			PSO o	Sustainable Outlook
	0.00	Understan		Learning Level	
	characteristic characteristics	Employability / Entrapropositi		SO-Learning Focus on Employability / o Level Entrepreneurship	

(Signature of Head of Department)

Understan Employability / Entrepreneurship Sheet work, site study

**Assessment Tools to Measure** 

**Attainment of CO** 

Note: Provide Mapping for all courses of all programs offered by the Department

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Mohali Campus-II

Paper UC/BARCH-1004 (E) Futuristic Architecture

course, the students will able to use the knowledge of futuristic material and architecture in the projects.	Course Outcome	
	PO-a	Architectural Knowledge
	ь Ş	Problem Solving
<	РО-с	Design development
<	PO-d	Conduct Investigations/ Pre - Design research
<	PO-	Use of Modern tool
<	f Po-	Socially responsible architecture
<	PO-g	Environment and Sustainability
<	h PO	Ethics
<	PO-i	Individual and team work
<	Po-	Communication
	PO-k	Management and finance
<	PO.	Life-long Learning
<	PO PSO-	Analysis and Design Skill
<	Q D	Research and Innovation
<	PS O-o	Sustainable Outlook
Understan	Learning Level	

Entrepreneurship Sheet work, site study

Employability /

Entrepreneurshi of CO

Focus on Assessment Tools to Employability / Measure Attainment

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Campus-II

offered by the Department

Note: Provide Mapping for all courses of all programs

(Signature of Head of Department)

- w. M. Planning final thesis from 15 to 19. Further, it was suggested that it should be Changes were made and syllabus is attached as Annexure-II desirable that students shall publish a research paper from their thesis in peer reviewed In the syllabus of M. Planning IVth semester, it was suggested to increase the credits of Journals/Conference proceedings etc. In line with M. Arch IVth semester syllabus.
- Architecture, Planning & Design. University. In view of this it was suggested that BoS shall be redesignated as BoS near future. BoS members were apprised of 15 years plan submitted earlier to the there is a possibility of commencement of Design related courses at Mohali Campus-II in to the nomenclature of Department, BoS, and Faculty etc. It was further discussed that It was informed by chairperson that institute is in process of approval of M. Planning course from ITPI, New Delhi and it is the requirement that word planning shall be added
- needs of the profession in teaching process. BoS meeting for information. The entire exercise is to incorporate the contemporary members were of opinion that all prepared Question Banks shall be submitted in next very beneficial for improving the quality of teaching and evaluation. For this suggestion, further shall be submitting the same to the Controller examination. This practice will be commencement of semester by the concerned faculty to the HoD architecture, who the syllabus of the theory subjects to submit the question bank within one month of specific. The chairperson informed the esteemed members that it has been proposed in terms of contemporary needs many a times question papers set up by examiners are not The expert members discussed that in view of the vast syllabus of the theory subjects, in

The agenda taken up by BoS chairperson was approved by members BoS.

The meeting ended with vote of thanks to the chair.

Ar. Jyon Singh Coordinator BoS (Arch)

Dr. Prabhjot Kaur, (Director) Chairperson BoS

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35

Research) (Architecture Education & Name of the Department: M.Arch

Paper UC/MARCH-101/20 Studio I

	Architectural Knowledge	Knowledge Problem Solving Design	Design development	Use of Modern tool	Socially responsible	Ethics	Individual and team work	Life-long Learning	Analysis and Design Skill	Research and Innovation		
Course Outcome	PO-		PO- PO-	РО-е	PO-f	PO-h	PO-i	PO-I	PO-e PO-f PO-h PO-i PO-l PSO-m PSO-n Lea	PSO-n	Learning Level	Focus on rning Level Employability / Entrepreneurship
CO1: Have a fairly good idea of the scenario of											Understanding	
CO 2: Understand the basic issues and	<		<		<		<	<	<			yes
challenges of imparting Architecture Education											Application	
in India.		<		۷		<	<	<		<		yes
CO 3: They will also be clear about the												
perception of society (general public) about the												
Architecture and architect and the role and												
responsibility & the need to update											Analysis	
Architecture education continuously to cope												
with dynamic practice.	<		۷		<		<	<	<	<		yes

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

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MST Exams, Quiz, End Term Exams

MST Exams, Quiz, End Term Exams

Sheet work, site study

Measure Attainment of CO **Assessment Tools to** 

Sh7

Name of the Department:
M.Arch (Architecture
Education & Research)

Paper UC/MARCH-102/20 Contemporary
Architecture- I

CO 3: They will understand the impact of globalization and the contribution of material & new technologies in shaping the architecture.	CO 2: It will be possible To identify & point out various influences (social, political, cultural, etc) on the architecture of India in general & northern region in particular.	CO1:Understand various trends of contemporary architecture in their immediate surroundings.	Course Outcome	
	<		PO-	Architectural Knowledge
<		<		Problem Solving
	<		° PO-	Design development
	<	<	PO- PO- PO- b c e	Use of Modern tool
<	<		PO-f PO-	Socially responsible
	<	<	PO-	Ethics
	<	<	PO-i PO-i	Individual and team work
<		<		Life-long Learning
	٧		PSO-m	Analysis and Design Skill
	~		PSO-	Research and Innovation
Analysis	Application	Understanding	Learning Level	
yes	yes	yes	Focus on Employability / Entrepreneurship	
Minor Exams, Quiz, End Term Exams	Minor Exams, Quiz, End Term Exams	Sheet work, site study	Assessment Tools to Measure Attainment of CO	

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

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Director
LK.G.P.T.U
LK.G.P.T.U
Robali Campus-II

246

Paper UC/MARCH-103/20 Educational Technology

	Architectural Knowledge	Problem Solving	Design development	Use of Modern tool	socially responsible architecture	Ethics	Individual and team work	Life-long Learning	Analysis and Design Skill	Research and Innovation	
Course Outcome	PO-	РО-Ь	PO-b PO-c PO-e PO-f PO-h PO-i PO-I	РО-е	PO-f	PO-h	PO-i	PO-I	PSO- m	PSO-n	PSO-n Learning Level
CO1: Incorporate innovative instructional technologies through project-based activities.	<			<	٧		٧	<	V		Application, Understanding
CO 2: Collaborate in online discussions about the field of educational technology.		<b>V</b>	<						٧		Application
CO 3: Synthesize information from various texts and online sources				٧	٨	٧		٧		٧	Analysis
CO 4: Deliver oral presentation through collaborative, online learning software applications.		٨		٧			٧		۷		Analysis
CO 5: Be equipped to prepare MOOC'S	<		<				<	٧			Application, Understanding

ning Level | Employability /

Focus on

Entrepreneurship

Measure Attainment of CO

**Assessment Tools to** 

Sheet work, site study

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Note: Provide Mapping for all courses of all programs offered by the Department

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yes

yes

End Term Exams Minor Exams, Quiz, End Term Exams Minor Exams, Quiz,

yes

yes

Minor Exams, Quiz, End Term Exams

yes

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Name of the Department: M.Arch (Architecture Education & Research)

Paper UC/MARCH-104/20 Research Methodology - I

	Architectural Knowledge	Problem Solving	Design development	Use of Modern tool	Socially responsible	Ethics	Individual and team work	Life-long Learning	Analysis and Design Skill	Research and Innovation		
Course Outcome	РО-а РО-ь	РО-ь			)-f	ī		I-04	PSO-	PSO-n	PSO-n Learning Level Employability /	Focus on Employability / Entrepreneurshi
CO1:1. Design framework/ techniques for the research process	<		٨		٨	٧	٧	٨	٧		Understanding	YES
CO 2: 2. Demonstrate knowledge of research processes (reading, evaluating, and developing)		٧		<				٧		V	Application	YES
CO 3: 3. Perform literature reviews using print and online databases	<		٧			۷		٧			Analysis	YES
CO 4: 4. Explain the rationale for research ethics		٧			٧	٧		٧	٧		Analysis	YES
CO 5: 5. Formulate the research in the form of thesis/report				<			<	٧			Application	YES
										The second second second		

(Signature of Head of Department)

programs offered by the Department Note: Provide Mapping for all courses of all

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Sheet work, site study

Minor Exams, Quiz, End

Minor Exams, Quiz, End Term Exams

Minor Exams, Quiz, End Term Exams

Sheet work, site study

Entrepreneurship

Measure Attainment of CO

**Assessment Tools to** 

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built environment and resource conservation Paper UC/MARCH/ PE-106-10/20 Fundamentals of the

	existing urban development based on the concept of sustainable development.	able			
L	<	<	<	PO-a PO-b	Architectural Knowledge
			<	РО-ь	Problem Solving
		<		PO-	Design development
	<		<	PO-	Use of Modern tool
		<		PO-f	Socially responsible
	<		<	PO-h	Ethics
	<	<	<	PO-f PO-h PO-I PO-I PSO	Individual and team work
	<			PO-I	Life-long Learning
		۷	<	PSO-m	Analysis and Design Skill
	V			PSO-n	Research and Innovation
	Analysis	Application	Understanding	-m PSO-n Learning Level Employability / Entrepreneurs	
	YES	YES	YES	Focus on Employability / Entrepreneurship	

End Term Exams

Minor Exams, Quiz,

Minor Exams, Quiz, End Term Exams

Measure Attainment of CO

**Assessment Tools to** 

Sheet work, site study

offered by the Department

Note: Provide Mapping for all courses of all programs

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647

Name of the Department: M.Arch (Architecture Education & Research)

Paper UC/MARCH-201/20 Studio II

	with Architecture.	major Indian schools of Architecture institutes of national		CO1:1. At the end of the course, the students will able to Differentiate between various models of architecture education prevalent world over.	Course Outcome		
	<		<		PO-a		Architectural Knowledge
		<			РО-ь		Problem Solving
	<	<	<		c (	PO- PO-	Design development
		<	<			P .	Use of Modern tool Socially
					PO-f		responsible architecture
	<		<		PO-f PO-h PO-i PO-i		Ethics
		<			PO-i		Individual and team work
		<	<		POI		Life-long Learning
	V		<		3 €	Beo	Analysis and Design Skill
		V			PSO-n		Research and Innovation
*	Analysis	Application		Understanding	PSO-n Learning Level		

YES

End Term Exams

Minor Exams, Quiz,

YES

Minor Exams, Quiz, End Term Exams

Sheet work, site study

YES

Employability / Entrepreneurship

Measure Attainment of CO

Assessment Tools to

Focus on

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

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Paper UC/MARCH-202/20 Dissertation- I

			the standard format.	CO1:1 Able to formulate	Course Outcome		
			<		PO-a PO-b PO-c e	100	Architectural Knowledge
		1	<		PO-I		Problem Solving
†	1	†	<		PO.		Design
$\dagger$	+	+	<		e PC		development Use of
$\dagger$	$\dagger$	+	<		P		Modern tool Socially
+	+	-			P	-	responsible architecture
+	1	-			6 <del>-</del> 7- 0- 1- 0- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-		Ethics
				10 may 1	PO-i	1	ndividual and team
		<			PO-f PO-h PO-i PO-I	L	ife-long earning
		~			PSO-	A	Analysis and Design Skill
		<			PSO-n	a	Research and annovation
			Understanding		PSO-n Learning Level Employability		
				Entrepreneurship	Focus on Employability /		

Sheet work, site study

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Assessment Tools to Measure Attainment

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offered by the Department

Note: Provide Mapping for all courses of all programs

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K G PT U Mohali Campus-Il

Name of the Department: M.Arch (Architecture Education & Research)

Paper UC/MARCH-203/20 Psychology of Learning and

		cognitive, behavioural, and humanistic theorists believe influence the learning process.	CO 3: 3. Compare and contrast the various factors that	situations	CO 2: 2. Apply learning theories and models to classroom		techniques of learning, motivation, and creativity, hence adding to teaching skills.	equip the students with the psychological theories and	CO1:1. At the end of the course, the students will able to			
				<	<					PO-a		Architectural Knowledge
		<		_	~					ь Ро-	F	Problem Solving
										РО-с	0	Design levelopment
-		,		<						PO-		Jse of Modern ool
		ζ.			<					PO-f	S	Socially esponsible
	<				<	4				PO-h		thics
			<	3.00						PO-f PO-h PO-i	Ir te	ndividual and eam work
	<		<		<					PO-I		ife-long Learning
			<							PSO-	A D	nalysis and esign Skill
	<			-	<		,			PSO-		esearch and novation
		Analysis	:	Application			Understanding			Focus on Learning Level Employability		
	YES		YES		YES				Entrepreneurship	Focus on Employability /		

(Signature of Head of Department)

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LK.G.P.T.U

End Term Exams

Minor Exams, Quiz,

End Term Exams Minor Exams, Quiz,

Sheet work, site study

Measure Attainment of CO **Assessment Tools to** 

Note: Provide Mapping for all courses of all programs offered by the Department

Name of the Department: M.Arch (Architecture Education & Research)

Methodology - II Paper UC/MARCH-204/20 Architecture Research

CO 4: 4. An ability to evaluate and apply information.	an appropriate program of inquiry.	CO 2: 2. The student will gain knowledge of different methods of conducting research and research writing.	CO1:1. At the end of the course, the students will able to develop the skill to identify, translate, and interpret issues relating to an architecture based on research inquiry methods.	Course Outcome PO- Po-	Architectural Knowledge Problem
_			<	9-0	Solving
				РО-ь РО-с	Design development
	<		ح	PO-	Use of Modern tool
<		<		PO-f	Socially responsible
	<	<	<	PO-h	Ethics
	<		<	PO-i	Individual and team work
<		<	<	PO-f PO-h PO-i PO-l	Life-long Learning
			<	PSO-	Analysis and Design Skill
<		<		PSO-n	Research and Innovation
Analysis	Analysis	Application	Understanding	PSO-n Learning Level	
YES	YES	YES	YES	Focus on Employability / Entrepreneurship	

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

Director Director LAG.P.T.U LAG.P.T.U

End Term Exams Minor Exams, Quiz, Minor Exams, Quiz, End Term Exams Minor Exams, Quiz, End Term Exams

Measure Attainment of CO

**Assessment Tools to** 

Sheet work, site study

523

Paper UC/MARCH-206-10/20 Elective I (Architecture Appreciation)

in design decisions.		architecture in the Indian context regarding the six major climatic zones prevalent in the country and	will be able to Explore and understand the traditional	CO1:1. After the completion of course the students	Course Outcome		
<	<				PO-a PO-b PO-c	Architect Knowled	
	<				PO-I	Problem Solving	
<					PO	Design	
	<				Control of the Contro	developm Use of M	nent
<					PO-	tool	ouem
					PO-f	Socially responsil	ole
<					PO-f PO-h PO-i PO-l	Ethics	
	<				PO	Individua	
	<				-iPC	team wor Life-long	k
<			_		Andrew Control	Learning	
					PSO-	Analysis of Design S	
	<				PSO-n Learning Level Employability /	Research Innovation	
Application		Und			Lea		
lication		Understanding			rnin.		
n		ınding			J Lev	-	
<u> </u>	<b>≤</b>	<u> </u>		_	∕el E		
YES	YES			Entrepreneurship	Focus on Employat		
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				dit			
E Min		She		of	As Me		
Minor Exams, Quiz, End Term Exams		Sheet work, site study		of CO	Assessment Tools to Measure Attainment		
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Quiz		ite stı			Tool		
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(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

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Paper UC/MARCH-301/20 Studio - III

	Architectural Knowledge	Problem Solving	Design development	Use of Modern tool	Socially responsible	Ethics	Individual and team work	Life-long Learning	Analysis and Design Skill	Research and Innovation		
Course Outcome	PO-a	PO-	PO- PO-	PO-	PO-f	PO-			PSO-	PSO-n	PSO-n Learning Level	Focus on Employability /
CO1:1. At the end of the course, the students will able to have a fairly good idea of the scenario of architecture education in the country.											Understanding	
	<		<		<		<	<	<	٧		YES
Curriculum prescribed as [per CoA regulations and compare them in detail for various types of architecture institute.		<		< ,		< ,		4			Application	XTO
CO 3: 3. Understand the basic issues and challenges Higher Education Scenario with special focus on Technical / Arch Education because of the Education	<		<		<						Analysis	VEC
	<		_	L	_		<	<	<			YES

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

Minor Exams, Quiz, End Term Exams

Minor Exams, Quiz, End Term Exams

Sheet work, site study

Measure Attainment of CO Assessment Tools to

Name of the Department: M.Arch (Architecture Education & Research)

PaperUC/MARCH-302/20 Architecture Appreciation

	decisions.		to Explore and understand the traditional architecture in Indian context with reference to the six major climatic zones prevalent in the country and appreciate the centuries old wisdom of	CO1:1. After the completion of course, the students will be able		
	<	<			PO-a	Architectural Knowledge
		<			<sub>b</sub> Po-	Problem Solving
	<				PO-	Design development
	<	<			PO-	Use of Modern
	<	<			PO-	tool Socially responsible
		<		200000000000000000000000000000000000000	PO-	Ethics
		<			PO- PO- PO- PO- c e f h i	Individual and team work
[	<	<			POL	Life-long Learning
-	4	<				Analysis and Design Skill
	4	۷		300000	PSO- PSO- m n	Research and Innovation
	Application		Understanding		Learning Level	
TES	VEC	YES		Entrepreneurship	Focus on Employability /	

Note: Provide Mapping for all courses of all programs offered by the Department

(Signature of Head of Department)

Director Lix G. P.T.U Lix G. P.

Minor Exams, Quiz, End Term Exams

Sheet work, site study

of CO

**Measure Attainment Assessment Tools to** 

952

Paper UC/MARCH-303/20 Instructional methods

	online learning software applications.  CO 4: 4. To make the students learn the techniques and	directed thinking and learning in nurturing and supportive	الـــــــــــــــــــــــــــــــــــــ	_	CO1:1. At the end of the course, the students will able to	Course Outcome		
<			<			PO-		Architectural Knowledge
		<				РО-Ь		Problem Solving
	<	V				PO-b PO-c PO-e PO-f		Design development
	<		<			PO-6		Use of
<		<				PO		Modern tool Socially responsible architecture
	<		<			ъ Ро-	26	erchitecture Ethics
		<				PO-i	t	ndividual and eam work
<	<		<			POL	L	ife-long earning
		<	<			PSO-	1	Analysis and Design Skill
<			<			PSO-n		Research and novation
Analysis	Analysis	Application		Understanding		Learning Level		,
YES	YES	YES	YES		Entrepreneurship	PSO-n Learning Level Employability /		

(Signature of Head of Department)

Minor Exams, Quiz, End Term Exams

Minor Exams, Quiz, End Term Exams

Sheet work, site study

Minor Exams, Quiz, End Term Exams

Measure Attainment of CO

Assessment Tools to

Note: Provide Mapping for all courses of all programs offered by the Department

Director I.K.G.P.T.U Mobali Campus-II

LSZ

Name of the Department: M.Arch (Architecture Education & Research)

Paper UC/MARCH-304/20 \* Educational Tour I/Summer Training-I / Vacation Assignment-I

CO1:1. The education tour to one day to one or two-week duration be encouraged to be undertaken by the students under faculty supervision. During or after the semester the term report shall be submitted to the class coordinator for assessment.	Course Outcome	
<	PO-	Architectural Knowledge
<	РО-ь	Problem Solving
<	РО-с	Design development
<	РО-ь РО-с РО-е	Use of Modern tool
<	PO-f	Socially responsible architecture
<	PO-f PO-h PO-i PO-I	Ethics
<	PO-i	Individual and team work
<	PO-I	Life-long Learning
۷	PSO-	Analysis and Design Skill
۷	PSO-n	Research and Innovation

Note: Provide Mapping for all courses of all programs offered by the Department

(Signature of Head of Department)

Lega,

Director

Understanding

Sheet work, site study

YES

Learning Level Focus on Employability / Entrepreneurship

Assessment Tools to Measure Attainment of CO

I.K.G.P.T.U

Mobali Gampus-II

**Guidance and Counselling** Paper UC/MARCH-305-10 /20 Professional Elective-I

CO1:1.: At the end of the course, the students will able to Develop the skill of administration and interpretation of psychological tests.	Course Outcome	
<	PO-a	Architectural Knowledge
<	PO-a PO-b PO-c	Problem Solving
<	РО-с	Design development
<	PO- e	Use of Modern tool
<	PO-	Socially responsible architecture
<	PO-h	Ethics
<	PO-h PO-i PO-I	Individual and team work
<	PO-I	Life-long Learning
<	PSO-	Analysis and Design Skill
<	PSO-	Research and Innovation

Learning Level Employability / Entrepreneurship

Attainment of CO

**Assessment Tools to Measure** 

Focus on

Understanding

Sheet work, site study, End term exam and assignment

YES

by the Department

Note: Provide Mapping for all courses of all programs offered

(Signature of Head of Department)

Director

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Mohali Campus-II

NOTES PARTIES

Architecture Paper UC/MARCH-309/19 Open Elective- I Digital

CO1:1. At the end of the course, the students will able to develop an understanding of the various digital software used in Architecture.	Course Outcome	
<	PO-a	Architectural Knowledge
<	РО-Ь	Problem Solving
<	РО-ь РО-с	Design development
۷	РО-е	Use of Modern tool
۷	PO-f PO-h PO-i	Socially responsible architecture
۷	PO-h	Ethics
<	PO-i	Individual and team work
۷	PO-I	Life-long Learning
<	PSO-	Analysis and Design Skill
<	PSO-n	Research and Innovation
Understandi ng, Application and Analysis	Learning Level	
Yes	Focus Entrep	

Focus on Employability / Entrepreneurship

Assessment Tools to Measure Attainment of CO

Project, Sheet work, site study

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

Director

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Name of the Department: M.Arch (Architecture Education & Research)

Paper UC/MARCH-311-15 /20 Open Elective- I Life Skill /Soft Skill

CO2:2. Use appropriate thinking and problem-solving techniques to solve new problems.	CO1:1.: At the end of the course, the students will able to Develop an awareness of the self and apply well-defined techniques to cope with emotions and stress.	Course Outcome	
	<	PO-a	Architectural Knowledge
۷		РО-а РО-ь	Problem Solving
	<b>V</b>	PO- c	Design development
<		PO- e	Use of Modern tool
	٧ .	PO-f	Socially responsible architecture
٧		PO-	Ethics
	<	PO-i	Individual and team work
٧		PO-I	Life-long Learning
	<	PO-i PO-I PSO-m PSO-n	Analysis and Design Skill
<		PSO-n	Research and Innovation

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Note: Provide Mapping for all courses of all programs offered by the Department

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Application

YES

Minor Exams, Quiz, End Term Exams YES

Understanding

Learning Level Entrepreneurship

of CO

Sheet work, site study

Assessment Tools to Measure Attainment

197

26/

Education & Research) Name of the Department: M.Arch (Architecture

Paper UC/MARCH-308/19 Open Elective- I GREEN BUILDINGS

based on green rating standards.	CO1:1. At the end of the course, the students will able to Identify major challenges facing the planet earth and human society.	Course Outcome	
	<	PO-a	Architectural Knowledge
<			Problem Solving
	<	PO-b PO-c PO-e	Design development
4		РО-е	Use of Modern tool
	<	PO-f	Socially responsible architecture
<		PO-f PO-h PO-i PO-l	Ethics
	<	PO-i	Individual and team work
<			Life-long Learning
	<	PSO-m	Analysis and Design Skill
<		PSO-n	Research and Innovation
Application	Understanding	Learning Level	
YES	YES	PSO-m PSO-n Learning Level Employability / Entrepreneurship	

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Note: Provide Mapping for all courses of all programs offered by the Department

Director L.K.G.P.T.U

I.K.G.P.T.U

I.K.G.P.T.U

End Term Exams Minor Exams, Quiz, Measure Attainment of CO

**Assessment Tools to** 

Sheet work, site study

(Institutional Experience) Paper UC/MARCH-401/20 Teaching Practice

CO1:1. The subject aims to culminate all teaching procedures, techniques, and experiences learned and practiced in an array of subjects undertaken during the course.	Course Outcome	
٧	PO-a PO-b	Architectural Knowledge
٧	РО-ь	Problem Solving
<	PO-	Design development
<	PO-	Use of Modern tool
<	PO-f	Socially responsible architecture
<	PO-f PO-h PO-i PO-l	Ethics
<	PO-i	Individual and team work
<	POI	Life-long Learning
<	PSO-	Analysis and Design Skill
<	PSO-n	Research and Innovation

Note: Provide Mapping for all courses of all programs offered by the Department

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Understanding, Application and Analysis

Record of training, report, Sheet work, site study

Yes

Learning Level Employability /

Assessment Tools to Measure
Attainment of CO

Focus on

Entrepreneurship

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Paper UC/MARCH-402/20 Dissertation-II

CO1:1. To understand and Analysis the project and find the solution.	Course Outcome	
<	PO-a	Architectural Knowledge
<	PO-a PO-b PO-c PO-e PO-f PO-h PO-i PO-l	Problem Solving
<	РО-с	Design development
<	РО-е	Use of Modern tool
<	PO-f	Socially responsible architecture
<	PO-h	Ethics
<	PO-i	Individual and team work
<	POI	Life-long Learning
<	PSO-	Analysis and Design Skill
<b>V</b>	PSO-n	Research and Innovation
Understanding, Application and Analysis	PSO-n Learning Level	

Focus on
Learning Level Employability /
Entrepreneurship

Measure Attainment of CO Assessment Tools to

Yes

Thesis report, Sheet work, site study

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

Director Director Vannpus-II

Paper UC-MURP101 Planning Studio -

CO1: To enable the students to understand the socio-economic and political context along with the landuse dynamics of the study area in relation to the city. The focus of this studio will be to develop the students' skills in area appreciation and mapping techniques.	Course Outcome	
<	O-a	Ability to gain knowledge in social and economical, legal and political, environmental and physical, governance and management aspects of planning and create livable human settlements in rural, urban and regional areas.
<	ъ	Problem Solving
<	РО-с	Planning development
<	PO-d	Conduct Investigations/ Pre - Planning research
<	РО-е	Use of Modern tool
<	PO-f	Socially responsible Planning
<	PO-g	Environment and Sustainability outLook
<	PO-h	Ethics
<	PO-i	Individual and team work
	PO-j	Communication
<	PO-k	Management and finance
<	PO-I	Life-long Learning
<	PSO-m	Analysis and Planning Skill
	PSO-n	Research and Innovation
	PSO-o	i de la contra del contra de la contra del la contra de la contra de la contra del la contra del la contra del la contra del la contra de la contra del la
Analysis	Learning	gain advanced knowledge in Planning practices
Yes	Focus on Employability / Entrepreneurship	
Sheet work, site study, Minor Exams, End Term Exams	Focus on Employability Assessment Tools to Measure Attainment of CO	

Note: Provide Mapping for all courses of all programs offered by the Department (Signature of Head of Department)

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Geoinformatics Systems - I Paper UC-MURP102

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Note: Provide Mapping for all courses of all programs offered by the Department

T C d	а	Ability to gain knowledge in social and economical, legal and political, environmental and physical, governance and management aspects of planning and create livable numan settlements in rural, urban and regional areas.
C	D F	Problem Solving
< PG	5 F	Planning development
< TO	5	Conduct Investigations/ Pre - Planning research
< TO 0.6	5	Use of Modern tool
< PG-	3	Socially responsible Planning
< TO CO 66	D E	Environment and Sustainability outLook
< C-	B D T	Ethics
POL	. I	ndividual and team work
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	. C	Communication
< TO	5	Management and finance
< <u>7</u>	<u> </u>	Life-long Learning
< TWO-	P 4	Analysis and Planning Skill
< TWO-1	5 5	Research and Innovation
	0 0 0	gain advanced knowledge in Planning practices
Aunderstandin g		
Yes	Focus on Employability	

Assessment Tools to Measure
Attainment of CO

Minor Exams, End Term Exams

CO1: To introduce the information

planning

computing skills relevant to

systems and develop basic

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Course Outcome CO1: To equip the students with current and future planning

PO-a	Ability to gain knowledge in social and economical, legal and political, environmental and physical, governance and management aspects of planning and create livable human settlements in rural, urban and regional areas.
PO-	Problem Solving

**Human Settlements** Paper UC-MURP103 History of Name of the Department: M.Plan

Ÿ	Training development	
P	Conduct Investigations / Bro	
0	Conduct Investigations/ Pro	Planning recearch

9-0-e	Use of Modern tool

Socially responsible Planning

PO-g	Environment and Sustainability outLook

Contract of	
ਾ	100
0	Ethics

P	la di dale al		

Ţ.	Individual	and	ica

### Communication

### Management and finance

### Life-long Learning

### PSO-m

### Analysis and Planning Skill

### PSO-n Research and Innovation

### gain advanced knowledge in Planning practices

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e nin			
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Entron	Emplo	Focus on
Entranguirehin	<b>Employability</b>	on

Assessment
Tools to Measure
Attainment of CO

Understanding

Minor Exams, End Term Exams

elements of planning theory to

planning thought, pluralistic nature

procedural and substantive And to focus on integrating

the required knowledge of

planning approaches and models. conventional and contemporary

of values in the profession,

practices.

Directo Direct

Paper UC-MURP104 Planning Techniques and Quantitative Methods

Ability to gain knowledge in social and economical, legal and political, environmental and physical, go environmental and physical, governance and management aspects of planning and create livable human settlements in rural, urban and regional areas. Problem Solving

Planning development Conduct Investigations/ Pre - Planning research

Use of Modern tool Socially responsible Planning

Environment and Sustainability outLook PO-h Ethics

Individual and team work

PO-j Communication Management and finance

Life-long Learning

Analysis and Planning Skill

Research and Innovation

PSO-o gain advanced knowledge in Planning practices

Learning

Focus on Employability / Entrepreneurship

Assessment Tools to Measure Attainment of CO

Understandin Yes Minor Exams, Quiz, End Term Exams

Note: Provide Mapping for all courses of all programs offered by the Department

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techniques and able to conduct empirical CO1: To acquire proficiency in statistical

studies employing statistical software.

Course Outcome

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Paper UC-MURP105 Environment

	Ability to gain knowledge in social and economical, legal and political, environmental and physical, governance and management aspects of planning and create livable human settlements in rural, urban and regional areas.	Problem Solving	Planning development	Conduct Investigations/ Pre - Planning research	Use of Modern taol	Socially responsible Planning	Environment and Sustainability outLook	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Planning Skill	Research and Innovation	gain advanced knowledge in Planning practices			
Course Outcome	PO-a	PO-b	PO-c	PO-d	РО-е	PO-f	PO-g			PO-j	PO-k	PO-I	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: To give insights on global and local issues of environmental concern and introduce fundamental concepts and policies related to housing.	V	v	V	v	٧	٧	V	٧	٧	v	v	V	V	V	٧	Understanding	Yes	Sheet work, site study,Minor Exams,End Term Exams

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Note: Provide Mapping for all courses of all programs offered by the Department

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Paper UC-MURP106 Infrastructure

Planning -I

	Ability to gain knowledge in social and economical, legal and political, environmental and physical, governance and management aspects of planning and create livable human settlements in rural, urban and regional areas.	Problem Solving	Planning development	Conduct Investigations/ Pre - Planning research	Use of Modern tool	Socially responsible Planning	Environment and Sustainability outLook	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Planning Skill	Research and Innovation	gain advanced knowledge in Planning practices			
Course Outcome	AA ABO-a	PO-b	PO-c	PO-d	РО-е	PO-f	PO-g	PO-h	⊆ PO-i	PO-j	≥ PO-k	PO-I	PSO-		PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: To provide exposure to infrastructure and its sub-sectors relevant to physical planner in planning and design of urban and regional Infrastructure.	V	٧	V	v	v	٧	V	v		V	v	V	V	V	V	Understandin g	Minor Exams, End Term Exams	
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Note: Provide Mapping for all courses of all programs offered by the Department

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Birector I.K.G.P.T.U Mohali Campus-II

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Paper UC-MURP107 Socio-Economic

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Ability to gain knowledge in social and economical, legal and political, environmental and physical, governance and management aspects of planning and create livable human settlements in rural, urban and regional areas.	Problem Solving	Planning development	Conduct Investigations/ Pre - Planning research	Use of Modern tool	Socially responsible Planning	Environment and Sustainability outLook	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Planning Skill	Research and Innovation	advanced			
PO-a	PO-b	РО-с	PO-d	РО-е	PO-f	PO-g	PO-h	PO-i	PO-j	PO-k	PO-I	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
v		V	V	V	V	v			V	V	V	V	V	v	Analyzing		Minor Exams, End Term Exams
				Ability to gain knowledge in social and ecolegal and political, environmental and physgovernance and management aspects of pland create livable human settlements in ruand regional areas.  Problem Solving Planning development Conduct Investigations/ Pre - Planning	Ability to gain knowledge in social and ecolegal and political, environmental and physgovernance and management aspects of pland create livable human settlements in ruand regional areas.  Problem Solving Planning development  Conduct Investigations/ Pre - Planning Use of Modern tool	Ability to gain knowledge in social and ecolegal and political, environmental and physgovernance and management aspects of pland create livable human settlements in ruand regional areas.  Problem Solving Planning development  Conduct Investigations/ Pre - Planning Use of Modern tool  Socially responsible Planning	Ability to gain knowledge in social and ecolegal and political, environmental and physgovernance and management aspects of pland create livable human settlements in ruand regional areas.  Problem Solving Planning development Conduct Investigations/ Pre - Planning Use of Modern tool Socially responsible Planning Environment and Sustainability outLool	Ability to gain knowledge in social and ecolegal and political, environmental and physgovernance and management aspects of pland create livable human settlements in ruand regional areas.  Problem Solving Planning development Conduct Investigations/ Pre - Planning Socially responsible Planning Environment and Sustainability outLool Ethics	Ability to gain knowledge in social and ecolegal and political, environmental and physgovernance and management aspects of pland create livable human settlements in ruand regional areas.  Problem Solving Planning development Conduct Investigations/ Pre - Planning Use of Modern tool Socially responsible Planning Environment and Sustainability outLool Ethics Individual and team work	Ability to gain knowledge in social and ecolegal and political, environmental and physgovernance and management aspects of pland create livable human settlements in rule and regional areas.  Problem Solving Planning development Conduct Investigations/ Pre - Planning Use of Modern tool Socially responsible Planning Environment and Sustainability outLool Ethics Individual and team work Communication	Ability to gain knowledge in social and ecolegal and political, environmental and physgovernance and management aspects of pand create livable human settlements in ruand regional areas.  Problem Solving  Planning development  Conduct Investigations/ Pre - Planning  Socially responsible Planning  Environment and Sustainability outLool  Ethics  Communication  Communication	Ability to gain knowledge in social and ecolegal and political, environmental and physgovernance and management aspects of pland create livable human settlements in ruand regional areas.  Problem Solving  Conduct Investigations/ Pre - Planning Use of Modern tool  Socially responsible Planning  Environment and Sustainability outLool  Ethics  Communication  Management and finance  Life-long Learning	Ability to gain knowledge in social and ecolegal and political, environmental and physgovernance and management aspects of pland create livable human settlements in ruand regional areas.  Problem Solving Planning development Conduct Investigations/ Pre - Planning Socially responsible Planning Environment and Sustainability outLoof Ethics Individual and team work Communication Management and finance Life-long Learning Analysis and Planning Skill	Ability to gain knowledge in social and ecolegal and political, environmental and physgovernance and management aspects of pland create livable human settlements in ruand regional areas.  Problem Solving  Planning development  Conduct Investigations/ Pre - Planning  Socially responsible Planning  Ethics  Ethics  Individual and team work  Communication  Management and finance  Life-long Learning  Analysis and Planning Skill  Research and Innovation	Ability to gain knowledge in social and ecolegal and political, environmental and physgovernance and management aspects of pland create livable human settlements in ruand regional areas.  Problem Solving  Planning development  Conduct Investigations/ Pre - Planning  Socially responsible Planning  Ethics  Ethics  Ethics  Management and sustainability outLool  Ethics  Analysis and Planning Skill  Research and Innovation  Research and Innovation	Ability to gain knowledge in social and ecolegal and political, ewitonmental and physical egal and political, ewitonmental and physical and political, ewitonmental and physical and regional areas.  Problem Solving Problem Solving Problem Solving Problem Solving Problem Solving Conduct Investigations/ Pre - Planning Problem Solving Problem Solvin	Ability to gain knowledge in social and ecolegia and political, environmental and physical environmental and physical environmental and physical environmental and physical and political, environmental and physical and regional areas.  Problem Solving  Conduct Investigations/ Pre - Planning  Ethics  Ethics  Communication  Analysis and Planning Skill  Ethics  Analysis and Planning Skill  Ethics  Research and Innovation  Communication  Analysis and Planning prace  Bain advanced knowledge in Planning prace  Emblowaping  Analysis and Planning prace  Communication  Analysis and Planning prace  Bain advanced knowledge in Planning prace  Bain advanced knowledge in Planning prace  Communication  Communication  Communication  Communication  Analysis and Planning skill  Entitles  Communication  Communication  Analysis and Planning prace  Bain advanced knowledge in Planning prace  Communication  Communica

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Note: Provide Mapping for all courses of all programs offered by the Department

Paper UC/MURP - 201/19 Planning

	Ability to gain knowledge in social and economical, legal and political, environmental and physical, governance and management aspects of planning and create livable human settlements in rural, urban and regional areas.	olving	Planning development	Conduct Investigations/ Pre - Planning research	Use of Modern tool	Socially responsible Planning	Environment and Sustainability outLook	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Planning Skill	Research and Innovation	gain advanced knowledge in Planning practices		
Course Outcome	PO-a	РО-ь	РО-с	PO-d	РО-е	PO-f	PO-g	PO-h	PO-i	PO-j	PO-k	PO-I	PSO-m	PSO-n	PSO-o	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1:1. At the end of the course, the students will able to Analyse urban situations and develop logical decision-making skill.	٧	v	V	V	V	V	V	V	v	V	v	V	V		v	Sheet work, site study	
CO 2: 2. To address the complex overlays of conceptualisation, implementation and finance.			V	v	V	٧	V	V		V	v	V	v	٧	v	Minor Exams, End Term Exams	

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Note: Provide Mapping for all courses of all programs offered by the Department

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Director I.K.G.P.T

Paper UC/MURP - 202/19 Geoinformatics Systems - II																	10)	
Geoinformatics Systems - II	Ability to gain knowledge in social and economical, legal and political, environmental and physical, governance and management aspects of planning and create livable human settlements in rural, urban and regional areas.	Problem Solving	Planning development	Conduct Investigations/ Pre - Planning research	Use of Modern tool	Socially responsible Planning	Environment and Sustainability outLook	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Planning Skill	Research and Innovation	gain advanced knowledge in Planning practices			
Course Outcome	PO-a	PO-b	PO-c	PO-d	РО-е	PO-f	PO-g	PO-h	PO-i	PO-j	PO-k	PO-I	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CC
CO1:1. At the end of the course, the students will able to Apply concepts of geo-informatics and computing skills in the relevant software.		v	V	v	٧	V	V	V	v	V		v				Application	Yes	Minor Exams, End Term Exams
CO 2: 2. Understand their relevance and applicability in urban and regional planning.			v	٧	v	V	V	V		V		v	٧	V	٧	Understanding	Yes	Minor Exams, End Term Exams

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Note: Provide Mapping for all courses of all programs offered by the Department

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Mohali Campus-II

(Signature of Head of Department)  Note: Provide Mapping for all courses of all programs offered by the Department	CO1:1. At the end of the course, the students will able to Understand City — Region Linkages and problems of Metro and Mega Cities and role of urban development policies and problems.	Course Outcome		Paper UC/MURP - 203/19 City and Metropolitan Planning
t) of all programs of		PO-a	Ability to gain knowledge in social and economical, legal and political, environmental and physical, governance and management aspects of planning and create livable human settlements in rural, urban and regional areas.	
fered by	<	Ро-ь	Problem Solving	
the Depar	<	Poc	Planning development	
tment	<	Po-d	Conduct Investigations/ Pre - Planning research	
	<	PO-6	Use of Modern tool	
	<	Po-f	Socially responsible Planning	
	<	PO-y	Environment and Sustainability outLook	
	<	PO-h	Ethics	
	<	<u> </u>	Individual and team work	
		Po-j	Communication	
		PO-k	Management and finance	
		PO	Life-long Learning	
K.G.P.	<	PSO-m	Analysis and Planning Skill	
Camp	2	PSO-n	Research and Innovation	
Director LK.G. P.T.U LK.G. P.T.U LK.G. P.T.U	<	PSO-o	gain advanced knowledge in Planning practices	
	Understandin	Learning		
	Yes	Focus on Employability		
	Minor Exams, End Term Exams	Assessment Tools to Measure Attainment of	•	

Paper UC/MURP - 204/19 Infrastructure Planning -II																		
	Ability to gain knowledge in social and economical, legal and political, environmental and physical, governance and management aspects of planning and create livable human settlements in rural, urban and regional areas.	Problem Solving	Planning development	Conduct Investigations/ Pre - Planning research	Use of Modern tool	Socially responsible Planning	Environment and Sustainability outLook	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Planning Skill	Research and Innovation	gain advanced knowledge in Planning practices			
Course Outcome CO1:1. At the end of the course,	PO-a	PO-b	PO-c	PO-d	РО-е	PO-f	PO-g	PO-h	PO-i	PO-j	PO-k	PO-I	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
the students will able to Prepare schemes and programmes related to infrastructure development as a component for inclusive development.	V	V	V	V	V	v	V	V	٧	v	V	V	V	v	v	Understanding	Yes	Minor Exams, End Term Exams
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Note: Provide Mapping for all courses of all programs offered by the Department

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Mohali Campus-11

r UC/MURP - 205/19 ning Legislations and										1 1	-							
ernance	Ability to gain knowledge in social and economical, legal and political, environmental and physical, governance and management aspects of planning and create livable human settlements in rural, urban and regional areas.	Problem Solving	Planning development	Conduct Investigations/ Pre - Planning research	Use of Modern tool	Socially responsible Planning	Environment and Sustainability outLook	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Planning Skill	Research and Innovation	gain advanced knowledge in Planning practices			
Course Outcome	PO-a	PO-b	PO-c	PO-d	РО-е	PO-f	PO-g	PO-h	PO-i	PO-j	PO-k	PO-I	PSO- m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurshi p	Assessment Tools to Measure Attainment of CO
co1:1. At the end of the course, the students will able to To learn plan preparation with respect to planning legislation.	٧	V	٧	V	٧	٧	V	٧	٧	٧	٧	٧				Application	Yes	Minor Exams, End Term Exam
CO2:2. Understand the working of government at central- state and			V	V	٧	٧	٧	٧		٧	٧	٧	٧	٧	٧	Understanding		Minor Exams, End Term Exan
local level. CO3:3 To learn how to advise on governance of cities and their regions.	v	V	٧	V	V	٧	٧	٧	V	٧	٧		٧	٧	٧	Application	Yes	Minor Exams, End Term Exan

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Note: Provide Mapping for all courses of all programs offered by the Department

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Paper UC/MURP-211/19 ( EL- I) Demography and Planning																		
	Ability to gain knowledge in social and economical, legal and political, environmental and physical, governance and management aspects of planning and create livable human settlements in rural, urban and regional areas.	em So	Planning development	Conduct Investigations/ Pre - Planning research	Use of Modern tool	Socially responsible Planning	Environment and Sustainability outLook	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Planning Skill	Research and Innovation	gain advanced knowledge in Planning practices			
Course Outcome	PO-a	PO-b	РО-с	PO-d	РО-е	PO-f	PO-g	PO-h	PO-i	PO-j	PO-k	PO-I	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1:1. At the end of the course, the students will able to Prepare demographic data of the country.	V	V	V	v	V	٧	V	V	٧	V	V	V		V	٧	Application	Yes	Minor Exams,End Term Exams
CO2:2. Understand the requirements of the population			v	V	v	٧	v	v		v	٧	٧	٧	٧		Understanding		Minor Exams,End Term Exams
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Note: Provide Mapping for all courses of all programs offered by the Department

Director

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	CO2:2. Understand the institutional framework of the country.	CO1:1. At the end of the course, the students will able to Appreciate Indian art and architecture and salient features of its heritage sites.	Course Outcome		Paper UC/MURP-212/19 (EL- I) Urban Development Programs
			PO-a	Ability to gain knowledge in social and economical, legal and political, environmental and physical, governance and management aspects of planning and create livable human settlements in rural, urban and regional areas.	
		<	РО-Ь	Problem Solving	
	<	<	РО-с	Planning development	
	<	<	PO-d	Conduct Investigations/ Pre - Planning research	
	<	<	РО-е	Use of Modern tool	
	<	<	PO-f	Socially responsible Planning	
	<	<	PO-g	Environment and Sustainability outLook	
	<	<	PO-h	Ethics	
	<	<	PO	Individual and team work	
	<	<	PO-j	Communication	
			PO-k	Management and finance	
	۷	<	Pol	Life-long Learning	
		<	PSO-m	Analysis and Planning Skill	
	<		PSO-n	Research and Innovation	
,	<	< .	PSO-o	gain advanced knowledge in Planning practices	
	Understandin	Understandin	Learning		
	Yes	Yes	Focus on Employability / Entrepreneurship		
	Minor Exams, End Term Exams	Minor Exams, End Term Exams	Assessment Tools to Measure Attainment of CO		

Note: Provide Mapping for all courses of all programs offered by the Department

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	in the spatial planning outlook and governance edge.	students will able to Understand the use and power of emerging new technologies and social networks among communities.  CO2:2. Understand the paradigm shift	Course Outcome CO1:1. At the end of the course, the		Paper UC/MURP-213/19 (EL-I) Planning of New Towns
		<	PO-a	Ability to gain knowledge in social and economical, legal and political, environmental and physical, governance and management aspects of planning and create livable human settlements in rural, urban and regional areas.	
		<	РО-ь	Problem Solving	
	<	<	PO-c	Planning development	
	<	<	PO-d	Conduct Investigations/ Pre - Planning research	
	<	<	РО-е	Use of Modern tool	
			PO-f	Socially responsible Planning	
	<	<	РО-д	Environment and Sustainability outLook	
		۷	PO-h	Ethics	
	<	-	PO:	Individual and team work	
	<	<	PO-j	Communication	
	<	-	PO-k	Management and finance	
	<	-	POL	Life-long Learning	
	<		PSO-	Analysis and Planning Skill	
			PSO-n	Research and Innovation	
	<	<	PSO-o	gain advanced knowledge in Planning practices	
Officerstanding		Understanding Yes	Learning	Parameter viralinate in Lighting highligh	
		Yes	Focus on Employability / Entrepreneurship		
		Minor Exams, End Term Exams	Assessment Tools to Measure Attainment of CO		

Note: Provide Mapping for all courses of all programs offered by the Department

(Signature of Head of Department)

Mohali Campus-II



CO3:3. 3. Explain possible approaches of dealing with different problems identified on land and the built environment	CO2:2. Identify and Examine different problems faced on land and the built environment.	CO1:1. At the end of the course, the students will able to Examine and explain both theoretical and practical applicability of the different theories of urban growth.	Course Outcome		Paper UC/MURP-214/19 ( EL- I) Land Economics and finance
<b>V</b>		4	PO-a	Ability to gain knowledge in social and economical, legal and political, environmental and physical, governance and management aspects of planning and create livable human settlements in rural, urban and regional areas.	
<		<	РО-ь	Problem Solving	
<	۷	<	РО-с	Planning development	
<	<	<	PO-d	Conduct Investigations/ Pre - Planning research	
<	<	<	РО-е	Use of Modern tool	
<		<	PO-f	Socially responsible Planning	
<	<	<	PO-g	Environment and Sustainability outLook	
<	<	<	PO-h	Ethics	
<		<	PO-i	Individual and team work	
<	<	<	PO-j	Communication	
<	~	<	PO-k	Management and finance	
	<	<	PO-I	Life-long Learning	
<	<		PSO-m	Analysis and Planning Skill	
<	<		PSO-n	Research and Innovation	
<	<		PSO-o	gain advanced knowledge in Planning practices	
Application	Analysis	Analysis	Learning		
		Yes	Focus on Employability / Entrepreneurship		
Minor Exams, End Term Exams	Minor Exams, End Term Exams	Minor Exams, End Term Exams	Assessment Tools to Measure Attainment of CO		

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

Director

Nohali Campus-11

CO3: Explain possible approaches of dealing with different problems identified on land and the built environment.	CO2: To address the complex overlays of context, linkages, legal frameworks and hierarchy.	CO1:1 At the end of the course, the students will able to Prepare projects of regional scale.	Course Outcome		Paper UC/MURP-301/19 Planning Studio -III (Regional Planning)
<		<b>~</b>	PO-a	Ability to gain knowledge in social and economical, legal and political, environmental and physical, governance and management aspects of planning and create livable human settlements in rural, urban and regional areas.	
<		<	РО-Ь	Problem Solving	
<	<	<	PO-c	Planning development	
<	<	۷	Pod	Conduct Investigations/ Pre - Planning research	
<	<	<	PO-e	Use of Modern tool	
<	<	<	PO-f	Socially responsible Planning	
<	<	<	PO-g	Environment and Sustainability outLook	
<	<	<	PO-h	Ethics	
<		<	PO-i	Individual and team work	
<	<	<	PO-j	Communication	
<	<	<	PO-k	Management and finance	
	<	<	PO <u>-</u>	Life-long Learning	
<	<	<	PSO-m	Analysis and Planning Skill	
<	<		PSO-n	Research and Innovation	
۷	<	<	PSO-o	gain advanced knowledge in Planning practices	
Analysis	Application	Application	Learning		
		Yes	Focus on Employability / Entrepreneurship		
		Sheet work, site study, Minor Exams, End Term Exams	Assessment Tools to Measure Attainment of CO		

(Signature of Head Department)

Note: Provide Mapping for all courses of all programs offered by the Department

Director

I.K.G.P.T.U

I.Mohali Campus-II

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and physical, governance and management aspects of planning and create livable human settlements in rural, urban and regional areas.		ut.	s/ Pre - Planning		gui	ity outLook								practices			
and physical, go aspects of planr settlements in r	Problem Solving	Planning development	Conduct Investigations/ research	Use of Modern tool	Socially responsible Planning	Environment and Sustainability	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Planning Skill	Research and Innovation	gain advanced knowledge in Planning			
O-a	РО-ь	РО-с	PO-d	PO-e	PO-f	PO-g	PO-h	PO-i	PO-j	PO-k	PO-I	PSO-m	PSO-n		Learning		Assessment Tools to Measure Attainment of CO
	V	٧	V	V	V	V	V	v	٧	V	V	V	V	V	Understandin g	Yes	Minor Exams, End Term Exams
	Y																
	O-a		0-a PO-b PO-c	O-a PO-b PO-c PO-d	O-a PO-b PO-c PO-d PO-e	O-a PO-b PO-c PO-d PO-e PO-f	O-a PO-b PO-c PO-d PO-e PO-f PO-g	O-a PO-b PO-c PO-d PO-e PO-f PO-g PO-h	O-a PO-b PO-c PO-d PO-e PO-f PO-g PO-h PO-i	O-a PO-b PO-c PO-d PO-e PO-f PO-g PO-h PO-i PO-j	O-a PO-b PO-c PO-d PO-e PO-f PO-g PO-h PO-i PO-j PO-k	O-a PO-b PO-c PO-d PO-e PO-f PO-g PO-h PO-i PO-j PO-k PO-l	O-a PO-b PO-c PO-d PO-e PO-f PO-g PO-h PO-i PO-j PO-k PO-l PSO-m	О-а РО-b РО-с РО-d РО-е РО-f РО-g РО-h РО-i РО-j РО-k РО-l РSО-m PSО-n	O-a PO-b PO-c PO-d PO-e PO-f PO-g PO-h PO-i PO-j PO-k PO-l PSO-m PSO-n PSO-o	O-a PO-b PO-c PO-d PO-e PO-f PO-g PO-h PO-i PO-j PO-k PO-l PSO-m PSO-n PSO-o Level  Understandin	PO-b PO-c PO-d PO-e PO-f PO-g PO-h PO-i PO-j PO-k PO-l PSO-m PSO-n PSO-o Level Entrepreneurship

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Note: Provide Mapping for all courses of all programs offered by the Department

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Mohali Campus-II



CO3: Formulate a research a problem.	CO2: Understand and explore various areas of research in urban planning.		Course Outcome		Paper UC/MURP-303/19 Research Methodology
٧		4	PO-a	Ability to gain knowledge in social and economical, legal and political, environmental and physical, governance and management aspects of planning and create livable human settlements in rural, urban and regional areas.	
<	<	<	РО-ь	Problem Solving	
<	<	<	PO-c	Planning development	
<	<	<	PO-d	Conduct Investigations/ Pre - Planning research	
<	<	<	РО-е	Use of Modern tool	
٧	<	<	PO-f	Socially responsible Planning	
<	<	۷	PO-g	Environment and Sustainability outLook	
٧	<	<	PO-h	Ethics	
٧		<	PO-i	Individual and team work	
٧	۷	<	PO-j	Communication	
			PO-k	Management and finance	
٨	<b>~</b>	٧	PO-I	Life-long Learning	2
٨	V		PSO-m	Analysis and Planning Skill	
٨	<	٧	PSO-n	Research and Innovation	,
۷	<	<	PSO-o	gain advanced knowledge in Planning practices	
Application	Understanding	Application	Learning		
		Yes	Focus on Employability / Entrepreneurship		
Minor Exams, End Term Exams	Minor Exams, End Term Exams	Minor Exams, End Term Exams	Assessment Tools to Measure Attainment of CO		

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

Director
LX.G.P.T.U
Mohali Campus-u

1	CO1: Formulate a research a problem.	CO2: Understand and explore various areas of research in urban planning.	CO1: At the end of the course, the students will able to Apply various research techniques for their research projects and thesis.	Course Outcome		internship	Paper UC/NIURP-304 / 19 Review of
	<		V	PO-a	Ability to gain knowledge in social and economical, legal and political, environmental and physical, governance and management aspects of planning and create livable human settlements in rural, urban and regional areas.		
	<		<	РО-ь	Problem Solving		
	<	۷	< -	РО-с	Planning development		
	<	<	<	PO-d	Conduct Investigations/ Pre - Planning research		
	<	<	<	РО-е	Use of Modern tool		
	<	<	<	PO-f	Socially responsible Planning		
	<	<	<	PO-g	Environment and Sustainability outLook		
	<	<	<	PO-h	Ethics		
	<		<	PO:	Individual and team work		
	<	<	<	PO-j	Communication		
	<	<	<	PO-k	Management and finance		
	<	<	<	PO <u>-</u>	Life-long Learning		
		<		PSO-m	Analysis and Planning Skill		
	<	<	<	PSO-n	Research and Innovation		
	<	<	<	PSO-o	gain advanced knowledge in Planning practices		
	Application	Understandin	Application	Learning Level			
			Yes	Focus on Employability / Entrepreneurship			
			End Term Viva Voce	Assessment Tools to Measure Attainment of CO			

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

Darector Bundani Gampus-Ik

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	management aspects of these areas.	cial	CO1: At the end of the course, the		(Elective-II) Special Area Planning
		<	PO-a	Ability to gain knowledge in social and economical, legal and political, environmental and physical, governance and management aspects of planning and create livable human settlements in rural, urban and regional areas.	
		<	РО-ь	Problem Solving	
	<	<	PO-c	Planning development	
	<	<	PO-d	Conduct Investigations/ Pre - Planning research	
	<		РО-е	Use of Modern tool	
	<	<	PO-f	Socially responsible Planning	
	۷	<	РО-9	Environment and Sustainability outLook	
	<	<	PO-h	Ethics	
		<	PO:	Individual and team work	
	<	<	PO-j	Communication	
	<	<	PO-k	Management and finance	
	<	<	PO-I	Life-long Learning	
	<	<	PSO-m	Analysis and Planning Skill	
	<	<	PSO-n	Research and Innovation	
	<	<	PSO-o	gain advanced knowledge in Planning practices	
	Understanding	Application	Learning Level		
	V	Yes	Focus on Employability / Entrepreneurship		
	,	Minor Exams, End	Assessment Tools to Measure Attainment of CO		

Note: Provide Mapping for all courses of all programs offered by the Department (Signature of Head of Department)

Notali Campus-11

prone areas and know various mitigation measures and preparedness	E	COI: At the end of the course the		Paper UC/MURP-PE-305(B)/19 ( Elective- II) Disaster Management
	<	PO-a	Ability to gain knowledge in social and economical, legal and political, environmental and physical, governance and management aspects of planning and create livable human settlements in rural, urban and regional areas.	7
	<	РО-ь	Problem Solving	
<	<	PO-c	Planning development	
<	<	PO-d	Conduct Investigations/ Pre - Planning research	
<	<	РО-е	Use of Modern tool	
	<	PO-f	Socially responsible Planning	
<	<	PO-g	Environment and Sustainability outLook	
<	<	PO-h	Ethics	
	<	PO:	Individual and team work	
<	<	Po-j	Communication	
		PO-k	Management and finance	
<	<	PO-I	Life-long Learning	
<		PSO-	Analysis and Planning Skill	
V		PSO-n	Research and Innovation	
<		PSO-o	gain advanced knowledge in Planning practices	
Understanding	Understanding	Learning	5 5.	
	Yes	Focus on Employability / Entrepreneurship		
	Minor Exams, End Term Exams	Measure Attainment of		

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

I.K.S.P.T.U Nobali Campus-il

Paper UC/MURP-PE-305(C)/19 (Elective-II) Project Planning and Management																		
	Ability to gain knowledge in social and economical, legal and political, environmental and physical, governance and management aspects of planning and create livable human settlements in rural, urban and regional areas.	Problem Solving	Planning development	Conduct Investigations/ Pre - Planning research	Use of Modern tool	Socially responsible Planning	Environment and Sustainability outLook	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Planning Skill	Research and Innovation	gain advanced knowledge in Planning practices			
Course Outcome	PO-a	PO-b	РО-с	PO-d	РО-е	PO-f	PO-g	PO-h	PO-i	PO-j	PO-k	PO-I	PSO-m	PSO-n	PSO-o	Learning Level	Focus on Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
CO1: At the end of the course, the students will able to Describe a project life cycle, and can skilfully map each stage in the cycle.	٧	V	V	V	V	V	V	V	V	V	v	V	2	V	V	Understanding	Yes	Minor Exams, End Term Exams
CO2: Identify the resources needed for each stage, describe the time needed to successfully complete a project.	,							.,		7	1	V	V	V	V	Analysis		Minor Exams, End Term Exams
		V	V	V	V	V	V	V		V	•		,					

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

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CO2: Will learn to raise the quality of life of the people in rural areas.	CO1: At the end of the course, the students will able to Understand the policies and sectoral policies of rural planning.	Course Outcome		Paper UC/MURP-PE-305(D) /19(Elective-II) Rural Planning and Development
<	<	PO-a	Ability to gain knowledge in social and economical, legal and political, environmental and physical, governance and management aspects of planning and create livable human settlements in rural, urban and regional areas.	
<	<	9-0-	Problem Solving	
	<	РО-с	Planning development	
<	<	PO-d	Conduct Investigations/ Pre - Planning research	
<	<	РО-е	Use of Modern tool	
<	<	PO-f	Socially responsible Planning	
<	<	PO-g	Environment and Sustainability outLook	
<	<	PO-h	Ethics	
	<	PO:	Individual and team work	
2	2	PO-j	Communication	
		PO-k	Management and finance	
<	<	PO_	Life-long Learning	
<	<	Υ	Analysis and Planning Skill	
		PSO-n	Research and Innovation	
<	<	PSO-o	gain advanced knowledge in Planning practices	
Analysizing	Understanding Yes	Learning Level		
	Yes	Focus on Employability / Entrepreneurship		į
	Minor Exams, End Term	Assessment lools to Measure Attainment of CO		

Note: Provide Mapping for all courses of all programs offered by the Department

(Signature of Head of Department)



Ability to gain knowledge in social and economical, legal and political, environmental and physical, governance and management aspects of planning and create livable human settlements in rural, urban and regional areas.	Problem Solving	Planning development	Conduct Investigations/ Pre - Planning research	Use of Modern tool	Socially responsible Planning	Environment and Sustainability outLook	Ethics	Individual and team work	Communication	Management and finance	Life-long Learning	Analysis and Planning Skill	Research and Innovation	gain advanced knowledge in Planning practices			
PO-a	РО-ь	PO-c	PO-d	РО-е	PO-f	PO-g	PO-h	PO-i	PO-j	PO-k	PO-I	PSO-m	PSO-n	PSO-o	Learning Level	Employability / Entrepreneurship	Assessment Tools to Measure Attainment of CO
V	٧	V	V	V	٧	V	v	v	V	v	v				Understandin g		Minor Exams, End Term Exams
					.,	7	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		V	7	V	N.	V	V	Understandin		
	PO-a		PO-a PO-b PO-c	PO-a PO-b PO-c PO-d	PO-a PO-b PO-c PO-d PO-e	PO-a PO-b PO-c PO-d PO-e PO-f	PO-a PO-b PO-c PO-d PO-e PO-f PO-g	PO-a PO-b PO-c PO-d PO-e PO-f PO-g PO-h	PO-a PO-b PO-c PO-d PO-e PO-f PO-g PO-h PO-i	PO-a PO-b PO-c PO-d PO-e PO-f PO-g PO-h PO-i PO-j	PO-a PO-b PO-c PO-d PO-e PO-f PO-g PO-h PO-i PO-j PO-k	PO-a PO-b PO-c PO-d PO-e PO-f PO-g PO-h PO-i PO-j PO-k PO-l	PO-a PO-b PO-c PO-d PO-e PO-f PO-g PO-h PO-i PO-j PO-k PO-l PSO-m	PO-a PO-b PO-c PO-d PO-e PO-f PO-g PO-h PO-i PO-j PO-k PO-l PSO-m PSO-n	PO-a PO-b PO-c PO-d PO-e PO-f PO-g PO-h PO-i PO-j PO-k PO-l PSO-m PSO-n PSO-o	PO-a PO-b PO-c PO-d PO-e PO-f PO-g PO-h PO-i PO-j PO-k PO-l PSO-m PSO-n PSO-n Learning Level	PO-a PO-b PO-c PO-d PO-e PO-f PO-g PO-h PO-i PO-j PO-k PO-l PSO-m PSO-n PSO-n Employability / Entrepreneurship

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Note: Provide Mapping for all courses of all programs offered by the Department

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LKG.P.T.b

Vohali Campus-u

recommendations.	CO3: To identify issues and concerns those emerge out of the study and suggest	CO2: To undertake detailed exploration of the topic (by way of surveys and studies).	CO1: At the end of the course, the students will be able tohave a basic understanding of the area chosen for study (by. carrying out a detailed literature review).	Course Outcome		Paper UC/MURP - 401/19 Planning Thesis
		٧		PO-a	Ability to gain knowledge in social and economical, legal and political, environmental and physical, governance and management aspects of planning and create livable human settlements in rural, urban and regional areas.	
	4		<	РО-Ь	Problem Solving	
	۷	<	<	PO-c	Planning development	
	4	<	<	PO-d	Conduct Investigations/ Pre - Planning research	
	4	<	<	РО-е	Use of Modern tool	
•	4	<	<	PO-f	Socially responsible Planning	
	۷.	<	<	PO-g	Environment and Sustainability outLook	
	4	<	<	PO-h	Ethics	
-	4		<	PO-	Individual and team work	
*	<	<	<	Poj.	Communication	
•	4	۷	<	PO-k	Management and finance	
1	۷.	<	<	POL	Life-long Learning	
1	<	<	<	PSO-m	Analysis and Planning Skill	
		<	<	PSO-n	Research and Innovation	
		<	<	PSO-o	gain advanced knowledge in Planning practices	
The boundary of	Application	Analyzing	Understandin B	Learning		
	Yps	Yes	Yes	Focus on Employability / Entrepreneurship		
	University Viva	University Viva	University Viva	Tools to Measure Attainment of CO		

(Signature of Head of Department)

Note: Provide Mapping for all courses of all programs offered by the Department

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