

SCHOOL OF ARCHITECTURE, SCIENCE AND TECHNOLOGY
YASHVANTRAO CHAVAN MAHARASHTRA OPEN UNIVERSITY

Syllabus
V22:B.Arch.
General [AEP]

2011

AST, YCMOU, NASHIK.-422 222, MS, INDIA

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SYLLABUS FOR

V22: B.ARCH. (2010 PATTERN)

BASIC INFORMATION

1. **Mode of Education:** Full time face-to-face mode enhanced with ELearning support.
2. **Minimum Programme Duration:** 5 years after HSC (12th) or Equivalent
3. **Required Study Efforts:** 720 Hours in **each** semester
4. **Medium of Instruction:** English
5. **Attendance:** **Minimum 80% attendance for all courses.**
6. **Equivalence Status:**
 - a. Approved by Council of Architecture, New Delhi
 - b. UGC recognized and approved
 - c. DEC recognized and approved
 - d. Recognized by Government of Maharashtra for MPSC jobs

PROGRAMME CALENDAR

SN	Activity Description	Odd semesters like 01, 03, 05 and 07 From 01-Aug Till 31-Jan	Even semesters like 02, 04, 06 and 08 From 01-Feb Till 31-Jul
Admission			
01	Further Admission	From 05-Jun Till 05-Jul	From 05-Dec Till 05-Jan
02	Fresh Admission	From 05-Jun Till 05-Aug	Not Offered
Teaching - Learning			
03	Teaching - Learning	From 01-Aug Till 13 Nov	From 01-Feb Till 16-May
04	Teaching-Learning Backlog Clearing	From 14-Nov to 04-Dec	From 17-May to 04-Jun
End Exam (EE) Form Submission			
05	EE Form Submission by students at SC	On or Before 30-Sep	On or Before 31-Mar
06	EE Form Submission by SCs at University	On or Before 05-Oct	On or Before 05-Apr
Continuous Assessment (CA) Submission			
07	CA Availability on website	From 01-Aug Till 30 Nov	From 01-Feb Till 30-May
08	CA Submission by Students at SC	01-30 Nov	01-30 May
09	Provisional CA Report by SCs	On or before 31-Dec	On or before 30-Jun
10	Final CA Report Submission by SCs at University	On or before 31-Jan	On or before 31-Jul
End Examination (EE)			
11	EE for Theory Courses	From 05-Dec Till 14-Dec	From 05-Jun Till 14-Jun
12	EE for Practical, STW, SV or PW Courses	Immediately after the last day of end exam for theory courses, but positively before 05-Jan	Immediately after the last day of end exam for theory courses, but positively before 05-Jul
Semester End Vacation			
13	Semester End Vacation	From 08-Jan Till 31-Jan	From 08-Jul Till 31-Jul

ELIGIBILITY AND FEES

Admission Eligibility	Certification Eligibility	Fees and Deposit / Semester		
<ul style="list-style-type: none"> Passed the HSC (Std. XII) examination State Board of Secondary and Higher Secondary Education or its equivalent examination with Mathematics as a subject and secured minimum 50% aggregate marks (45% for backward class candidates only) in the HSC (Std XII) examination. OR Passed Diploma in under 10+3 diploma (any stream) Examination recognized by central/ state government or its equivalent examination and secured minimum 50% aggregate marks. (45% for backward class candidates only) <p style="text-align: center;">AND</p> <ul style="list-style-type: none"> Hold valid score at National Aptitude Test in Architecture (NATA) conducted by the Council of Architecture for the academic year 2010-2011 (with minimum 40% valid score.) 	Min 50% or better marks in total 62 courses (subjects) of total 240 credit points at Semesters 01-10. Aggregate performance and Class in the programme shall be reported on the basis of only semesters 07-08.	Desc	INR	USD
		UF	5,400	540
		SCF	21,000	2,100
		ASF	8,000	800
		EF	150/T 250/STW 400/SV	15/T 25/STW 40/SV
		Total ≈	36,000	3,600
		LD	2,000	200
		AFA	Year 1	14,000
			Year 2	14,000
			Year 3	14,000
	Year 4	14,100		
	Year 5	15,600		

SEMESTERS AND COURSES

SN	Code	Name	CA	EE	TM	Type	CPs
Semester 01: 24 CPs.							
01	A24011	Theory of Structures - 1	10	40	50	T	2
02	A24012	Culture and Built Form – 1	10	40	50	T	2
03	A24013	Architectural Drawing-1	20	80	100	STW	4
04	A24014	Art Studio - 1	20	80	100	STW	4
05	A24015	Building Construction -1	20	80	100	SV	4
06	A24016	Architectural Design-1	40	160	200	SV	8
Semester 02: 24 CPs.							
07	A24021	Theory of Structures – 2	10	40	50	T	2
08	A24022	Culture and Built Form – 2	10	40	50	T	2
09	A24023	Architectural Drawing-2	20	80	100	STW	4
10	A24024	Art Studio – 2	20	80	100	STW	4
11	A24025	Building Construction -2	20	80	100	SV	4
12	A24026	Architectural Design-2	40	160	200	SV	8

SN	Code	Name	CA	EE	TM	Type	CPs
Semester 03: 24 CPs							
13	A24031	Theory of Structures – 3	10	40	50	T	2
14	A24032	Culture and Built Form –3	20	80	100	T	4
15	A24033	Architectural Drawing-3	10	40	50	STW	2
16	A24034	Building Services & Sciences - 1	20	80	100	STW	4
17	A24035	Building Construction -3	20	80	100	SV	4
18	A24036	Architectural Design-3	40	160	200	SV	8
Semester 04: 24 CPs							
19	A24041	Theory of Structures – 4	10	40	50	T	2
20	A24042	Culture and Built Form –4	20	80	100	T	4
21	A24043	Architectural Drawing-4	10	40	50	STW	2
22	A24044	Building Services & Sciences – 2	20	80	100	STW	4
23	A24045	Building Construction -4	20	80	100	SV	4
24	A24046	Architectural Design-4	40	160	200	SV	8
Semester 05: 24 CPs							
25	A24051	Theory of Structures – 5	10	40	50	T	2
26	A24052	Culture and Built Form –5	20	80	100	T	4
27	A24053	Elective: Visual Communication	10	40	50	STW	2
	A25053	Elective: Art in Architecture					
28	A24054	Building Services & Sciences – 3	20	80	100	STW	4
29	A24055	Building Construction -5	20	80	100	SV	4
30	A24056	Architectural Design-5	40	160	200	SV	8
Semester 06: 24 CPs							
31	A24061	Cost Estimation	10	40	50	T	2
32	A24062	Culture and Built Form –6	20	80	100	T	4
33	A24063	Elective: Graphics & Printing Technology	10	40	50	STW	2
	A25063	Elective: Photography & Architecture					
34	A24064	Building Services & Sciences – 4	20	80	100	STW	4
35	A24065	Building Construction -6	20	80	100	SV	4
36	A24066	Architectural Design-6	40	160	200	SV	8
Semester 07: 24 CPs							
37	A24071	Sociology	10	40	50	T	2
38	A24072	Human Settlements	10	40	50	T	2
39	A24073	Professional Practice -1	10	40	50	T	2
40	A24074	Interior Architecture	10	40	50	STW	2
41	A24075	Landscape Design	10	40	50	STW	2
42	A24076	Special Structures	10	40	50	STW	2
43	A24077	Seminar & Thesis Topic	10	40	50	STW	2
44	A24078	Elective: Sales & Marketing Skills	10	40	50	STW	2
	A25078	Elective: Film Making & Architecture					
45	A24079	Architectural Design-7	40	160	200	SV	8
Semester 08: 24 CPs							
46	A24081	Professional Practice -2	10	40	50	T	2
47	A24082	Specifications & Controls	10	40	50	T	2
48	A24083	Elective: Geographic Information Systems (GIS)	10	40	50	STW	2
	A25083	Elective: Environmental Design					

SN	Code	Name	CA	EE	TM	Type	CPs
49	A24084	Dissertation - Thesis Special Topic	10	40	50	STW	2
50	A24085	Architectural - Thesis	80	320	400	SV	16
Semester 09: 24 CPs							
51	A24091	Presentation & Approval drawings – 1	20	80	100	SV	4
52	A24092	Site Visits & Study - 1	20	80	100	SV	4
53	A24093	Interaction with Consultants - 1	10	40	50	SV	2
54	A24094	Field Observations Study	20	80	100	SV	4
55	A24095	Office Administration & Log Book - 1	10	40	50	SV	2
56	A24096	Working Drawings & Details - 1	40	160	200	SV	8
Semester 10: 24 CPs							
57	A24101	Presentation & Approval drawings – 2	20	80	100	SV	4
58	A24102	Site Visits & Study – 2	20	80	100	SV	4
59	A24103	Interaction with Consultants - 2	10	40	50	SV	2
60	A24104	Critical Appraisal	20	80	100	SV	4
61	A24105	Office Administration & Log Book - 2	10	40	50	SV	2
62	A24106	Working Drawings & Details - 2	40	160	200	SV	8

EVALUATION PATTERN

SN	Type of Course	Continuous Assessment	End Examination
1	Theory (T)	<ol style="list-style-type: none"> Student is required to answer 1 of 1 SAQ, each of 5 marks, on each CP Single attempt only Marks: 5 Marks for each CP Duration: Specified 1 Month CAT: Continuous Assessment Time is 1 hr for each C.P. 	<ol style="list-style-type: none"> Student is required to answer 1 of 1 SAQ, each of 5 marks, on each CP Student is required to answer 1 of 2 LAQs, each of 15 marks, on each CP Maximum 5 Attempts only Marks: 20 Marks for each CP Duration: 45 minutes for each CP
2	Studio with Term-Work (STW)	<ol style="list-style-type: none"> Student is required to submit "Activity Report" for each CP in the prescribed format. Single Attempt only Marks: 5 Marks for each CP Duration: Specified 1 Month CAT: Continuous Assessment Time is 1 hr for each C.P. 	<ol style="list-style-type: none"> External and internal examiners shall assess each student based on: <ol style="list-style-type: none"> Term-Work submission by the student Continuous Assessment submission by the student Maximum 5 Attempts only Marks: 20 Marks for each CP Duration: 240 minutes

SN	Type of Course	Continuous Assessment	End Examination
3	Studio with Viva (SV)	1. Student is required to submit "Activity Report" for each CP in the prescribed format. 2. Single Attempt only 3. Marks: 5 Marks for each CP 4. Duration: Specified 1 Month 5. CAT: Continuous Assessment Time is 1 hr for each C.P.	1. External and internal examiners shall assess each student based on: a. Term-Work submission by the student b. Continuous Assessment submission by the student c. Viva on studio Activities 2. Maximum 5 Attempts only 3. Marks: 20 Marks for each CP 4. Duration: 240 minutes

Actual CA and EE marks shall be used in computation of "Total Marks (TM)". "Grace Factor" and "Total Marks (TM)" shall be used in computation of Percentile marks. Only percentile marks shall be reported for each course in the mark-statement. Only best of the past performance shall be reported.

• **Evaluation Pattern of 'Studio Term-Work' Type Courses of 2 CP**

SN	Description	Internal Examiner	External Examiner	Total Marks
		Duration of End Exam: 240 minutes (4 hrs)		Batch size: 20 students
a	Assessment of Assignments, drawings, Journal, Reports, etc.	15 Marks	25 Marks	40 Marks
Total		15 Marks	25 marks	40 Marks

• **Evaluation Pattern of 'Studio Viva' Type Courses of 2 CP**

SN	Description	Internal Examiner	External Examiner	Total Marks
		Duration of End Exam: 240 minutes (4 hrs)		Batch size: 20 students
a	Presentation of Assignments, drawings, Journal, Reports, etc. or Design portfolio, Case Study(ies), Reports, etc.	5 Marks	15 Marks	20 Marks
b	Viva-Voice	10 Marks	10 Marks	20 Marks
Total		15 Marks	25 marks	40 Marks

• **Evaluation Pattern of 'Studio Term-Work' Type Courses of 4 CP**

SN	Description	Internal Examiner	External Examiner	Total Marks
		Duration of End Exam: 240 minutes (4 hrs)		Batch size: 20 students
a	Assessment of Assignments, drawings, Journal, Reports, etc.	30 Marks	50 Marks	80 Marks
Total		30 Marks	50 marks	80 Marks

• **Evaluation Pattern of 'Studio Viva' Type Courses of 4 CP**

SN	Description	Internal Examiner	External Examiner	Total Marks
		Duration of End Exam: 240 minutes (4 hrs)		Batch size: 20 students
a	Presentation of Assignments, drawings, Journal, Reports, etc. or Design portfolio, Case Study(ies), Reports, etc.	10 Marks	30 Marks	40 Marks
b	Viva-Voice	20 Marks	20 Marks	40 Marks
Total		30 Marks	50 marks	80 Marks

- **Evaluation Pattern of 'Studio Viva' Type Courses of 8 CP**

SN	Description	Internal Examiner	External Examiner	Total Marks
Duration of End Exam: 240 minutes (4 hrs)		Batch size: 20 students		
a	Presentation of Assignments, drawings, Journal, Reports, etc. or Design portfolio, Case Study(ies), Reports, etc.	20 Marks	60 Marks	80 Marks
b	Viva-Voice	40 Marks	40 Marks	80 Marks
Total		60 Marks	100 marks	160 Marks

- **Evaluation Pattern of 'Studio Viva' Type Courses of 16 CP**

SN	Description	Internal Examiner	External Examiner	Total Marks
Duration of End Exam: 240 minutes (4 hrs)		Batch size: 15 students		
a	Presentation of Assignments, drawings, Journal, Reports, etc. or Design portfolio, Case Study(ies), Reports, etc.	40 Marks	120 Marks	160Marks
b	Viva-Voice	80 Marks	80 Marks	160Marks
Total		120 Marks	200 marks	320 Marks

SEMESTER 01

A24011: THEORY OF STRUCTURES - I

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
01	A24011	Theory of Structures - I	2	20	2	60	10	40	50	TH

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed: <ul style="list-style-type: none">10+2 or equivalent from a recognized Board/University. OR10+3 Diploma (any stream) recognised by Central/ State. ORInternational Baccalaureate Diploma, after 10 years of schooling.	After successful completion of this course, student should be able to Develop an intuitive understanding of structures. Behavior of materials and basic structural systems in response to the forces of nature acting upon man made objects.

UNITS

UN	Name of the Unit	CSs	Questions
1-1	Glossary of technical words.	CP Block 01	Students have to answer '1 of 1' SAQ in CA and '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
1-2	Functions of structures.	CSs 01-10	
2-1	Analysis and design.	CP Block 02	Students have to answer '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
2-2	Factor of safety.	CSs 11-20	

DETAILED SYLLABUS

UN	Detailed Syllabus of the Unit	CP Block
1-1	Glossary of technical terminology used. Introduction to Structure of Natural & Man made forms. Intuitive understanding of structural behavior of Natural & Man made forms. Relationship of Natural form & Man made forms.	CP Block 01
1-2	Functions of structures. Primary and secondary forces acting on structures. Gravitational force, Live load, Wind load. Effect of temperature variations. Types of supports and their characteristics.	
2-1	Analysis and design. Criteria for design. Primary elements of structure and their behavior.	CP Block 02
2-2	Factor of safety and factors affecting it. Characteristics of structures – strength, stiffness and stability. Factors affecting them and ways of satisfying these requirements.	

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24011-TB1			
A24011-TB2			
Reference-Books			
A24011-RB1	Strength of Materials – by Khurmi R.S.		
A24011-RB2	Applied Mechanics and Strength of Material – by Khurmi. R. S.		
CD / DVD			
A24011-CD1			
A24011-CD2			
Web Links			
A24011-WL1			
A24011-WL2			
A24011-WL3			
A24011-WL4			
A24011-WL5			

A24012: CULTURE AND BUILT FORM - I

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
01	A24012	Culture and Built Form - I	2	20	2	60	10	40	50	TH

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
<p>For successful completion of this course, student should have successfully completed:</p> <ul style="list-style-type: none"> 10+2 or equivalent from a recognized Board/University. OR 10+3 Diploma (any stream) recognised by Central/ State. OR International Baccalaureate Diploma, after 10 years of schooling. 	<ul style="list-style-type: none"> After successful completion of this course, student should be able to that: Architecture is a cultural context & an expression of the under laying value systems of Culture. Society & Culture has its co-relation to built form. There are Levels of social organization & evolution of various social groups over time. Human habitat should be recognized through natural and man-made environment. And he should be able to release time & place through history & Vernacular in settlement & architecture. The focus is on an overview of History-Culture-evolution of built forms in that context only.

UNITS

UN	Name of the Unit	CSs	Questions
1	Pre-History and Ancient Civilizations Greek and Roman Civilizations	CP Block 01 CSs 01-10	Students have to answer '1 of 1' SAQ in CA and '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.

2	Age of Discovery to Contemporary Times	CP Block 02 CSs 11-20	Students have to answer '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
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DETAILED SYLLABUS

UN	Detailed Syllabus of the Unit	CP Block
1	<p>Pre-History and Ancient Civilizations: Paleolithic, Mesolithic, Neolithic, Bronze Age, Copper Age and Iron Age.</p> <p>Agrarian and Pastoral systems which lead to the inception of the river valley civilization like Mesopotamian, Egyptian and Harrapan Civilizations:</p> <ul style="list-style-type: none"> • Symbolism and conveyed meaning with respect to the evolution of written language. • Ancient trade routes, e.g. Silk Route <p>Greek and Roman Civilization: Classical cultures, like those of the Romans and Greeks.</p> <p>Time of the Roman Empire/Middle Ages:</p> <ul style="list-style-type: none"> • Rise and fall of the Roman Empire. • Role of religion with respect to culture and architecture. • Crusades and the Dark Ages. • City States. 	CP Block 01
2	<p>Age of Discovery to Contemporary Times:</p> <ul style="list-style-type: none"> • Exploration of sea-routes, in search of the new world – Marco Polo, Vasco Da Gama, Columbus and Megalan • Age of Discovery • Reformation and Renaissance • Rise of Political Systems from Monarchy to Democracy. • Colonization with the establishment of different Trading Companies • Industrial Revolution • Philosophies that influenced architecture, from 1800 to contemporary times. (Modernism, Post-Modernism, Art-Nouveau etc.) 	CP Block 02

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24011-TB1			
A24011-TB2			
Reference-Books			
A24011-RB1	Pt. Jawaharlal Nehru, "Glimpses of World History"		
A24011-RB2	Geoffrey and Susan Jellicoe, "Landscape of Man"		
A24011-RB3	Sir Bannister Fletcher, "The History of Architecture"		

A24011-RB4	Spiro Kostof "History of Architecture"		
A24011-RB5	Markus Hattsein Peter Dellus ed. "Islamic Art and Architecture"		
CD / DVD			
A24011-CD1			
A24011-CD2			
Web Links			
A24011-WL1			
A24011-WL2			
A24011-WL3			
A24011-WL4			
A24011-WL5			

A24013: ARCHITECTURAL DRAWING I

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
01	A24013	Architectural Drawing - 1	4	56	4	120	20	80	100	STW

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed: <ul style="list-style-type: none">10+2 or equivalent from a recognized Board/University. OR10+3 Diploma (any stream) recognised by Central/ State. ORInternational Baccalaureate Diploma, after 10 years of schooling	<ul style="list-style-type: none">After successful completion of this course, student should be able to understandImportance of technical drawings as medium of communication, as basic vocabulary in architecture. Learning skills and techniques to think and represent elements of design through 2D and 3D geometry. To develop understanding of three dimensional objects and their surfaces during intersections.

UNITS

UN	Name of the Unit	CSs	Questions
1	Getting acquainted with necessary instruments of drawing. Lettering and annotation	CP Block 01 CSs 01-15	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
2	Introduction to Descriptive Geometry	CP Block 02 CSs 16-30	Students have to submit 'Term Work' for end exam on these units.
3	Principles of development of lateral surfaces of solids.	CP Block 03 CSs 31-45	Students have to submit 'Term Work' for end exam on these units.

4	Representing Interpenetration of solids through Orthographic drawings.	CP Block 04 CSs 46-60	Students have to submit 'Term Work' for end exam on these units.
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DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1	Getting acquainted with necessary instruments of drawing. Learning to draw straight and curved lines with different qualities. Lettering and annotation techniques in technical drawings	CP Block 01
2	Introduction to Descriptive Geometry, study of reference planes Meaning of terms Plan, Elevation, and Section and understanding them by drawing simple objects through theory of 'Orthographic Projections' of lines, planes and solids.	CP Block 02
3	Principles of development of lateral surfaces of solids, applying them to draw and develop surfaces of simple geometric solids and using them to make models.	CP Block 03
4	Representing Interpenetration of solids through Orthographic drawings. Different ways of presentation of solids in 3D projections such as Axonometric and Isometric.	CP Block 04

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24013-TB1			
Reference-Books			
A24013-RB1	Architectural Graphics : C. Leslie Martin		
A24013-RB2	Perspective for the Architect : Thames and Hudson		
A24013-RB3	Rendering with Pen and Ink, Jacoby		
A24013-RB4	Architectural Graphics – Ching Frank		
A24013-RB5	Sketchbook by Milind Mulik		
A24013-RB6	Pencil Sketching - Vyaktichitre by Pundalik Vaze		
A24013-RB7	Water Colour by Milind Mulik		
A24013-RB8	Colour Pencil by Rahul Deshpande & Gopal Nandurkar		
CD / DVD			
A24013-CD1			
A24013-CD2			
Web Links			
A24013-WL1			

A24014: ART STUDIO I

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
01	A24014	Art Studio - 1	4	56	4	120	20	80	100	STW

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
<p>For successful completion of this course, student should have successfully completed:</p> <ul style="list-style-type: none"> 10+2 or equivalent from a recognized Board/University. OR 10+3 Diploma (any stream) recognised by Central/ State. OR International Baccalaureate Diploma, after 10 years of schooling 	<p>After successful completion of this course, student should be able to understand</p> <ul style="list-style-type: none"> To develop basic design and expressional skills, visual and perceptual skills, Manual skills of use of different media and techniques

UNITS

UN	Name of the Unit	CSs	Questions
1	Observation and recording through drawing using pencil, charcoal, pen. Observation and recording through drawing using brush, crayons, paint.	CP Block 01 CSs 01-15	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
2	Drawing simple and complex geometric objects. Line drawing, shade and shading techniques.	CP Block 02 CSs 16-30	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
3	Introduction to use of various materials like clay, paper.	CP Block 03 CSs 31-45	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.

4	Use of various materials like boards, wood, metal, plastics.	CP Block 04 CSs 46-60	Students have to submit 'Term Work' for end exam on these units.
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DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1	Observation and recording through drawing using. Sketching and Object drawing, drawing from memory. Observation and recording through drawing using brush, crayons, paint. Using various paints like Water based, Oil based, etc. Colour theory.	CP Block 01
2	Drawing simple geometric objects, complex geometries and objects in nature. Contour drawing, Outdoor sketching exercises, etc. Line drawing, shade and shading techniques, using pencil, pen, paint, brush, charcoal, crayons etc.	CP Block 02
3	Introduction to use of various materials like clay, paper. Hands on use of these materials for making simple objects of day to day use.	CP Block 03
4	Introduction to use of various materials like boards, wood, metal, plastics. Making simple models using these materials. Introduction to model making.	CP Block 04

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24014-TB1			
A24014-TB2			
Reference-Books			
A24014-RB1	Design and Technology		
A24014-RB2	Bamboo and cane crafts of India by Rao, Ranjan		
A24014-RB3	Venu Bharati by Vinoo Kale		
A24014-RB4	Origamy by Jackson P.		
A24014-RB5	Architectural Metals – a Guideline to Selection, Specification and Performance by Zahner and L. William		
A24014-RB6	Woodworkers Guide to Furniture Design by Graves and Grat		
CD / DVD			
A24014-CD1			
A24014-CD2			
Web Links			
A24014-WL1			

A24014-WL2			
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A24015: BUILDING CONSTRUCTION I

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
01	A24015	Building Construction - 1	4	56	4	120	20	80	100	SV

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed: <ul style="list-style-type: none">• 10+2 or equivalent from a recognized Board/University. OR• 10+3 Diploma (any stream) recognised by Central/ State. OR• International Baccalaureate Diploma, after 10 years of schooling	After successful completion of this course, student should be able to Understand materials used in construction, principles of construction, building systems and simple elements of buildings and their behaviour.

UNITS

UN	Name of the Unit	CSs	Questions
1	Study of Basic building materials.	CP Block 01 CSs 01-15	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
2	Simple tools, plant & machinery used in construction.	CP Block 02 CSs 16-30	Students have to submit 'Term Work' for end exam on these units.
3	Primary elements in buildings and their construction.	CP Block 03 CSs 31-45	Students have to submit 'Term Work' for end exam on these units.

4	Load bearing walls type construction	CP Block 04 CSs 46-60	Students have to submit 'Term Work' for end exam on these units.
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DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1	Study of Basic materials of construction such as stone, bricks, building blocks, cement, lime, mortar, concrete, wood, etc. The properties, characteristics & use.	CP Block 01
2	Simple tools, plant & machinery used in construction.	CP Block 02
3	Primary elements in buildings and their construction: Acquainting students with the terminology used in building construction.	CP Block 03
4	Load bearing walls type construction –Principles of construction & their properties. Foundations, masonry Walls using various materials, openings.	CP Block 04

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24015-TB1			
A24015-TB2			
Reference-Books			
A24015-RB1	Elements of structure by Morgan		
A24015-RB2	Structure in Architecture by Salvadori		
A24015-RB3	Building construction by Mckay W. B., Vol. 1 to 4		
A24015-RB4	Construction of Building by Barry, Vol. I to V		
A24015-RB5	Construction Technology by Chudley R. Vol. I to IV		
A24015-RB6	Building Construction Illustrated – Ching Francis D.K.		
A24015-RB7	Elementary Building Construction by Michell		
A24015-RB8	Engineering Material –		

	Chaudhary		
A24015-RB9	Building Construction Materials – M. V. Naik		
A24015-RB10	Civil Engineer’s Hand Book – Khanna		
A24015-RB11	Vastu Rachana – Shri Sane		
A24015-RB12	National Building code and ISI specifications		
CD / DVD			
A24015-CD1			
A24015-CD2			
Web Links			
A24015-WL1			
A24015-WL2			

A24016: ARCHITECTURAL DESIGN I

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
01	A24016	Architectural Design - 1	8	112	8	240	40	160	200	SV

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
<p>For successful completion of this course, student should have successfully completed:</p> <ul style="list-style-type: none"> 10+2 or equivalent from a recognized Board/University. OR 10+3 Diploma (any stream) recognised by Central/ State. OR International Baccalaureate Diploma, after 10 years of schooling 	<p>After successful completion of this course, student should be able to Develop basic skills of design and design expression. Introduction to design grammar and principles of design. Application & Importance of these in Design.</p>

UNITS

UN	Name of the Unit	CSs	Questions
1	Definition of design	CP Block 01 CSs 01-15	Students are expected to complete sufficient number of projects related to this course, with regular critical remarks and assessment from the counselor and peer students, during the semester. External and internal experts will jointly evaluate these projects for 100 marks with viva after presentation by the student for about 5-7
2	Design in 2D and 3D	CP Block 02 CSs 16-30	
3	Elements of design- point, line, plane	CP Block 03 CSs 31-45	

4	Colour and texture in design	CP Block 04 CSs 46-60	minutes.
5	Light and shade in design	CP Block 05 CSs 61-75	
6	Gestalt's Laws	CP Block 06 CSs 76-90	
7	Geometry in design	CP Block 07 CSs 91-105	
8	Anthropometry & Ergonomics in design	CP Block 08 CSs 106-120	

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1	Definition of design	CP Block 01
2	Design in 2D and 3D	CP Block 02
3	Elements of design- point, line, plane	CP Block 03
4	Colour and texture in design	CP Block 04
5	Light and shade in design	CP Block

		05
6	Gestalt's Laws	CP Bock 06
7	Geometry in design	CP Bock 07
8	Anthropometry & Ergonomics in design	CP Bock 08

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24016-TB1			
A24016-TB2			
Reference-Books			
A24016-RB1	Design Methods by Jones C. J.	(1992)	John Willey and Sons, Inc. ISBN- 0-471- 28496-3
A24016-RB2	How Designers think: the design process demystified by Lawson B.	2005	Architectural Press, Oxford ISBN 13-978-0-7506- 6077-8
A24016-RB3	Elements of Design: Rowena Reed Kostellow and the Structure of Visual Relationships Hannah G.G	2002	Princeton Architectural Press, NY, USA ISBN 1-56898-329-8
A24016-RB4	Thinking Design By Prof S Balram		
A24016-RB5	Visual Thinking by Frank M. Young		
A24016-RB6	The Art of Looking Sideways		
A24016-RB7	Concepts and Responses		
CD / DVD			
A24013-CD1			
A24013-CD2			
Web Links			
A24013-WL1			
A24013-WL2			

SEMESTER 02

A24021: THEORY OF STRUCTURES - II

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
01	A24021	Theory of Structures - II	2	20	2	60	10	40	50	TH

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have attempted course: A24011: Theory of Structures – I	After successful completion of this course, student should be able to Develop an intuitive understanding of structures. Behavior of materials and basic structural systems in response to the forces of nature acting upon man made objects.

UNITS

UN	Name of the Unit	CSs	Questions
1-1	Introduction to basic structural systems.	CP Block 01	Students have to answer '1 of 1' SAQ in CA and '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
1-2	Distribution of load through elements of the systems.	CSs 01-10	
2-1	Analyzing behavior of Simple geometric forms.	CP Block 02	Students have to answer '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
2-2	Application of analysis of structure to real life examples.	CSs 11-20	

DETAILED SYLLABUS

UN	Detailed Syllabus of the Unit	CP
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		Block
1-1	Introduction to basic structural systems such as post-beam, bearing wall systems, trusses, rigid frames etc. and analyzing their structural behavior.	CP Block 01
1-2	Distribution of load through elements of the systems, transfer of loads.	
2-1	Analysis of simple geometric forms and their behavior. Cuboids and prismatic forms with symmetrical and asymmetrical layouts.	CP Block 02
2-2	Working out structural systems and their layout for small buildings	

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24021-TB1			
A24021-TB2			
Reference-Books			
A24021-RB1	Strength of Materials – by Khurmi R.S.		
A24021-RB2	Applied Mechanics and Strength of Material – by Khurmi. R. S.		
CD / DVD			
A24021-CD1			
A24021-CD2			
Web Links			
A24021-WL1			
A24021-WL2			
A24021-WL3			
A24021-WL4			
A24021-WL5			

A24022: CULTURE AND BUILT FORM - II

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
02	A24021	Culture and Built form - II	2	20	2	60	10	40	50	TH

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
<p>For successful completion of this course, student should have attempted course: A24021 Culture and Built form - I</p>	<ul style="list-style-type: none"> • After successful completion of this course, student should be able to that: • Architecture is a cultural context & an expression of the under laying value systems of Culture. • Society & Culture has its co-relation to built form. • There are Levels of social organization & evolution of various social groups over time. • Human habitat should be recognized through natural and man-made environment. • And he should be able to release time & place through history & Vernacular in settlement & architecture. • The focus is on an overview of History-Culture-evolution of built forms in that context only.

UNITS

UN	Name of the Unit	CSs	Questions
1	An overview of the history of design with respect to built environment in pre-rational and oral societies from the beginning of the recorded history and leading up to contemporary times.	<p>CP Block 01</p> <p>CSs 01-10</p>	Students have to answer '1 of 1' SAQ in CA and '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.

2	Various notions of spatial and temporal habitation, Man-Nature relations will be explored to highlight the idea that architecture is a cultural construct. Evolution of built forms manifested in spatial and formal abstraction, landscape, structural construction and material order, symbols and meanings with respect to	CP Block 02 CsS 11-20	Students have to answer '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
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DETAILED SYLLABUS

UN	Detailed Syllabus of the Unit	CP Block
1	An overview of the history of design with respect to built environment in pre-rational and oral societies from the beginning of the recorded history and leading up to contemporary times. <ul style="list-style-type: none"> • Origins and the ancient world • Ancient civilizations • Classical period • The medieval builder • Renaissance and the architect • Early modern and the industrial age • Modernism and reaction of architecture • International Style • Contemporary Architecture 	CP Block 01
2	Various notions of spatial and temporal habitation, Man-Nature relations will be explored to highlight the idea that architecture is a cultural construct. Evolution of built forms manifested in spatial and formal abstraction, landscape, structural construction and material order, symbols and meanings with respect to <ul style="list-style-type: none"> • Society • Culture • Climate • Land • Technology 	CP Block 02

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24022-TB1			
A24022-TB2			
Reference-Books			
A24022-RB1	Pt. Jawaharlal Nehru, "Glimpses of World History"		
A24022-RB2	Geoffrey and Susan Jellicoe, "Landscape of Man"		

A24022-RB3	Sir Bannister Fletcher, "The History of Architecture"		
A24022-RB4	Spiro Kostof "History of Architecture"		
A24022-RB5	Markus Hattsein Peter Dellus ed. "Islamic Art and Architecture"		
CD / DVD			
A24022-CD1			
A24022-CD2			
Web Links			
A24022-WL1			
A24022-WL2			
A24022-WL3			
A24022-WL4			
A24022-WL5			

A24023: ARCHITECTURAL DRAWING II

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
02	A24023	Architectural Drawing - II	4	56	4	120	20	80	100	STW

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have attempted: A24013 Architectural Drawing - I	<ul style="list-style-type: none">After successful completion of this course, student should be able to: Represent objects through 2D and 3D geometry, using paper & pen/pencil & Computers.

UNITS

UN	Name of the Unit	CSs	Questions
1	Perspective and relatively realistic representations	CP Block 01 CSs 01-15	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
2	Sciography	CP Block 02 CSs 16-30	Students have to submit 'Term Work' for end exam on these units.
3	Fundamentals of Computer Systems.	CP Block 03 CSs 31-45	Students have to submit 'Term Work' for end exam on these units.
4	2D drawing using CAD & other drawing software.	CP Block 04 CSs 46-60	Students have to submit 'Term Work' for end exam on these units.

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1	Perspective and relatively realistic representations. Introduction to concepts such as station point, picture plane, eye level, center of vision, cone of vision, vanishing point etc. One point and two point perspectives. 3D geometrical projections -Isometric projections, Axonometric projections.	CP Block 01
2	Sciography and methods of representing it in 2D projections. Applying sciography in 3D geometrical projections like isometric, axonometric projections, Perspective representations.	CP Block 02
3	Fundamentals of Computer Systems, Hardware, Peripheral Devices, OS, Application Software. Introduction to Drawing software. Fundamentals of Computation, Overview of Tessellation in 2D and 3D. Shape representation, Construction of Grids, uniform / non-uniform, ortho / free transformations. Diagrammatic Construction with representation of distance, scale, proportion, symmetry, order, composition	CP Block 03
4	2D drawing using computers. Coordinate Space and metric, Geometric Primitives and Symbols, Object Properties, Basic Transformations absolute and referential, Editing, Segmentation by Color, layering and grouping, Printing / Plotting.	CP Block 04

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24023-TB1			
Reference-Books			
A24023-RB1	Architectural Graphics : C. Leslie Martin		
A24023-RB2	Perspective for the Architect : Thames and Hudson		
A24023-RB3	Rendering with Pen and Ink, Jacoby		
A24023-RB4	Architectural Graphics – Ching Frank		
A24023-RB5	Sketchbook by Milind Mulik		
A24023-RB6	Pencil Sketching - Vyaktichitre by Pundalik Vaze		
A24023-RB7	Water Colour by Milind Mulik		
A24023-RB8	Colour Pencil by Rahul Deshpande & Gopal Nandurkar		
CD / DVD			
A24023-CD1			
A24023-CD2			
Web Links			
A24023-WL1			

A24024: ART STUDIO II

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
02	A24024	Art Studio - 2	4	56	4	120	20	80	100	STW

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have attempted: A24014 Art Studio - 1	After successful completion of this course, student should be able to: <ul style="list-style-type: none">Develop Conceptual and perceptual skills, in different media and techniques.

UNITS

UN	Name of the Unit	CSs	Questions
1	Abstraction of perceived images.	CP Block 01 CSs 01-15	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
2	Perspectives of formal geometric solids.	CP Block 02 CSs 16-30	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
3	Plastic media and their expressional potential.	CP Block 03 CSs 31-45	Students have to submit 'Term Work' for end exam on these units.
4	3D projects – developed through models.	CP Block 04 CSs 46-60	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1	Abstraction of perceived images, conceptual statements using different media, like pen & paper, brush & paint etc.	CP Block 01
2	Perspectives of formal geometric solids and spaces and informal geometries, rendering techniques and use of colour.	CP Block 02
3	Plastic media and their expressional potential. Human figure studies in line, drawings, shade and sculptural mass.	CP Block 03
4	3D projects – developed through models, sketches, drawings, rendering, abstract compositions. Abstractions used as basis for development of ideas. Geometry of forms and geometrical solids and wire frame models	CP Block 04

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24024-TB1			
A24024-TB2			
Reference-Books			
A24024-RB1	Design and Technology		
A24024-RB2	Bamboo and cane crafts of India by Rao, Ranjan		
A24024-RB3	Venu Bharati by Vinoo Kale		
A24024-RB4	Origami by Jackson P.		
A24024-RB5	Architectural Metals – a Guideline to Selection, Specification and Performance by Zahner and L. William		
A24024-RB6	Woodworkers Guide to Furniture Design by Graves and Grat		
CD / DVD			
A24024-CD1			
A24024-CD2			
Web Links			
A24024-WL1			
A24024-WL2			

A24025: BUILDING CONSTRUCTION II

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
02	A24025	Building Construction - 2	4	56	4	120	20	80	100	SV

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have attempted: A24015 Building Construction - 1	After successful completion of this course, student should be able to Understand materials used in construction, principles of construction, building systems and simple elements of buildings and their behavior.

UNITS

UN	Name of the Unit	CSs	Questions
1	Building materials	CP Block 01 CSs 01-15	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
2	Construction of floors	CP Block 02 CSs 16-30	Students have to submit 'Term Work' for end exam on these units.
3	Construction of Roofs	CP Block 03 CSs 31-45	Students have to submit 'Term Work' for end exam on these units.
4	Construction of Staircases	CP Block 04 CSs 46-60	Students have to submit 'Term Work' for end exam on these units.

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1	Building materials: Ferrous & non ferrous metals, Glass, Plastics & other composite modern products. Study the manufacture, characteristics, properties & use of these materials in building.	CP Block 01
2	Construction of floors in various materials like wood, steel, principles of construction and support system.	CP Block 02
3	Construction of Roofs- Simple roofs & trusses in wood & steel. Different roofing materials used, their characteristics-properties and details of construction.	CP Block 03
4	Construction of Staircases in wood, steel, decorative staircases & ramps. Principles, codes and planning of Staircases & ramps.	CP Block 04

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24025-TB1			
A24025-TB2			
Reference-Books			
A24025-RB1	Elements of structure by Morgan		
A24025-RB2	Structure in Architecture by Salvadori		
A24025-RB3	Building construction by Mckay W. B., Vol. 1 to 4		
A24025-RB4	Construction of Building by Barry, Vol. I to V		
A24025-RB5	Construction Technology by Chudley R. Vol. I to IV		
A24025-RB6	Building Construction Illustrated – Ching Francis D.K.		
A24025-RB7	Elementary Building Construction by Michell		
A24025-RB8	Engineering Material – Chaudhary		
A24025-RB9	Building Construction Materials – M. V. Naik		
A24025-RB10	Civil Engineer’s Hand Book – Khanna		
A24025-RB11	Vastu Rachana – Shri Sane		

A24025-RB12	National Building code and ISI specifications		
CD / DVD			
A24025-CD1			
A24025-CD2			
Web Links			
A24025-WL1			
A24025-WL2			

A24026: ARCHITECTURAL DESIGN II

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
01	A24026	Architectural Design - 2	8	112	8	240	40	160	200	SV

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have attempted: A24016 Architectural Design - 1	After successful completion of this course, student should be able to Organize and Structure space in a building.

UNITS

UN	Name of the Unit	CSs	Questions
1	Meaning of the term "structure" as organizing principle in a form. Structure as order	CP Block 01 CSs 01-15	Students are expected to complete sufficient number of projects related to this course, with regular critical remarks and assessment from the counselor and peer students, during the semester. External and internal experts will jointly evaluate these projects for 100 marks with viva after presentation by the student for about 5-7 minutes.
2	Light, Movement and Gravity as determinants of structure	CP Block 02 CSs 16-30	
3	Ability to see abstraction in a corporeal form of a building	CP Block 03 CSs 31-45	
4	Program interpretation	CP Block 04 CSs 46-60	

5	Relationship between materials and structural systems.	CP Block 05 CSs 61-75
6	Three dimensional projects – developed through models, sketch, drawing, rendering, abstract composition used as basis for development of ideas.	CP Block 06 CSs 76-90
7	Drawing and rendering skills for development of environmental and architectural ideas.	CP Block 07 CSs 91105
8	Basic design ideas underlying the vernacular built form. Application of learned processes and skills to basic shelter design – in drawing and models.	CP Block 08 CSs 106-120

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1	Meaning of the term “structure” as organizing principle in a form. Structure as order	CP Block 01
2	Light, Movement and Gravity as determinants of structure	CP Block 02
3	Ability to see abstraction in a corporeal form of a building	CP Block 03
4	Program interpretation	CP Block 04
5	Relationship between materials and structural systems.	CP Block 05
6	Three dimensional projects – developed through models, sketch, drawing, rendering, abstract composition used as basis for development of ideas.	CP Block

		06
7	Drawing and rendering skills for development of environmental and architectural ideas.	CP Book 07
8	Basic design ideas underlying the vernacular built form. Application of learned processes and skills to basic shelter design – in drawing and models.	CP Book 08

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24026-TB1			
A24026-TB2			
Reference-Books			
A24026-RB1	Design Methods by Jones C. J.	(1992)	John Willey and Sons, Inc. ISBN- 0-471- 28496-3
A24026-RB2	How Designers think: the design process demystified by Lawson B.	2005	Architectural Press, Oxford ISBN 13-978-0-7506- 6077-8
A24026-RB3	Elements of Design: Rowena Reed Kostellow and the Structure of Visual Relationships Hannah G.G	2002	Princeton Architectural Press, NY, USA ISBN 1-56898-329-8
A24026-RB4	Thinking Design By Prof S Balram		
A24026-RB5	Visual Thinking by Frank M. Young		
A24026-RB6	The Art of Looking Sideways		
A24026-RB7	Concepts and Responses		
CD / DVD			
A24026-CD1			
A24026-CD2			
Web Links			
A24026-WL1			
A24026-WL2			

SEMESTER 03

A24031: THEORY OF STRUCTURES - III

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
03	A24031	Theory of Structures - III	2	20	2	60	10	40	50	TH

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have attempted: A24011: Theory of Structures – II	After successful completion of this course, student should be able to Develop an intuitive understanding of structures. Behavior of materials and basic structural systems in response to the forces of nature acting upon man made objects.

UNITS

UN	Name of the Unit	CSs	Questions
1-1	Conditions of equilibrium of concurrent coplanar forces.	CP Block 01	Students have to answer '1 of 1' SAQ in CA and '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
1-2	Assumption in strength of materials.	CSs 01-10	
2-1	Concept of the shear force and the bending moment.	CP Block 02	Students have to answer '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
2-2	Brief discussion on stability..	CSs 11-20	

DETAILED SYLLABUS

UN	Detailed Syllabus of the Unit	CP Block
1-1	Conditions of equilibrium of concurrent coplanar forces, methods of projections.	CP

	Funicular polygon Graphical method of determining the resultant of a given system of forces. Method of moments. Centre of gravity, determining the centroid of simple figures. Moment of inertia, its application to sections subjected to bending, determining M.I. of simple and compound sections.	Book 01
1-2	Types of trusses, their uses, suitability and limitations, method of analyzing a truss (graphical & analytical). Assumption in strength of materials, basic terminology, brief history of strength of materials. Bars subjected to change in temperature, bars of non-uniform cross-section.	
2-1	Concept of the shear force and the bending moment, S F and B M diagram for cantilever and simply supported beams with various types of loadings. S F & B M diagrams for beams with overhangs solution of simple problems. Importance of S F & B M diagrams in the selection of a structure system – Discussion on case studies. Pure Bending stress & its importance, derivation of basic equation, solution of simple problems. Combined direct and bending stresses, Kern and its importance, solution of a few practical problems. Combined direct and bending stresses, Kern and its importance, solution of a few practical problems.	CP Book 02
2-2	Brief discussion on stability, buckling of columns, short and long columns, Euler's and buckling load effects of end conditions on the buckling load. Solutions of a few simple problems, ways of increasing the capacity of a long column. Deflection and its importance, code provisions, study of the deflected shape of simple structures. Solutions of problems. Concept of shear stress, average and maximum shear stress. Horizontal shear stress and its variation across the cross section of the beam. Sections made up of more than one material (composite sections), their uses and their advantages, assumptions made in the theory of composite sections, derivation of basic equations. Solution of simple problems.	

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24031-TB1			
A24031-TB2			
Reference-Books			
A24031-RB1	Strength of Materials – by Khurmi R.S.		
A24031-RB2	Applied Mechanics and Strength of Material – by Khurmi. R. S.		
CD / DVD			
A24031-CD1			
A24031-CD2			
Web Links			
A24031-WL1			
A24031-WL2			
A24031-WL3			
A24031-WL4			
A24031-WL5			

A24032: CULTURE AND BUILT FORM - III

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
03	A24032	Culture and Built form - III	4	40	4	44	20	80	100	TH

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
<p>For successful completion of this course, student should have attempted: A24022 Culture and Built form - II</p>	<p>After successful completion of this course, student should be able to that:</p> <ul style="list-style-type: none"> • Architecture is a cultural context & an expression of the under laying value systems of Culture. • Society & Culture has its co-relation to built form. • There are Levels of social organization & evolution of various social groups over time. • Human habitat should be recognized through natural and man-made environment. • And he should be able to release time & place through history & Vernacular in settlement & architecture.

UNITS

UN	Name of the Unit	CSs	Questions
1	Architectural developments in Neanderthal period, China, Indus valley, Sumerian, Egyptian, Minoan, Cretan settlements. Bronze age, Copper age, Iron age.	CP Block 01 CSs 01-10	Students have to answer '1 of 1' SAQ in CA and '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
2	Architectural developments in Hittite, Babylonian, Assyrians, Persian. Mycenaean, Greek periods, Roman Empire	CP Block 02 CSs 11-20	Students have to answer '1 of 1' SAQ in CA and '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.

3	Architectural developments in Mexican civilization, China, Chinese settlements in Korea.	CP Block 01 CSs 21-40	Students have to answer '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units
4	Architectural developments in Aryan, Jain, Buddhist architecture.	CP Block 02 CSs 41-60	Students have to answer '1 of 1' SAQ in CA and '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.

DETAILED SYLLABUS

UN	Detailed Syllabus of the Unit	CP Block
1	Neanderthal rituals, settled farming, hunter gatherer shelters Settlements locations- river banks, valleys, fertile soils. Underlying values of relationships between Man, Nature and Society. Yellow river settlements in China, Indus valley, Sumerian, Egyptian, Minoan, Cretan settlements. Bronze age, Copper age, Iron age	CP Block 01
2	Hittites, Babylonians, Assyrians, Persians. Parthenon, Hanging Gardens of Babylon, Library and Lighthouse in Alexandria, Mycenaean, Greek period, Roman Empire.	CP Block 02
3	Mexican civilization and Mexican pyramids, City planning developed in China, first Chinese settlements in Korea, Confucianism, Taoism, and Great Wall of China.	CP Block 03
4	Aryan invasion, tribal republics, rise of Magadha, religious philosophies- Upanishads, Jainism, Buddhism. Spread of Buddhism in Mauryan kingdom, Stupa at Sanchi, Rock cut architecture, Buddhist architecture	CP Block 04

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24032-TB1			
A24032-TB2			
Reference-Books			
A24032-RB1	Pt. Jawaharlal Nehru, "Glimpses of World History"		
A24032-RB2	Geoffrey and Susan Jellicoe, "Landscape of Man"		
A24032-RB3	Sir Bannister Fletcher, "The History of Architecture"		
A24032-RB4	Spiro Kostof "History of Architecture"		
A24032-RB5	Markus Hattsein Peter Dellus ed. "Islamic Art and Architecture"		

CD / DVD			
A24032-CD1			
A24032-CD2			
Web Links			
A24032-WL1			
A24032-WL2			
A24032-WL3			
A24032-WL4			
A24032-WL5			

A24033: ARCHITECTURAL DRAWING III

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
03	A24033	Architectural Drawing - III	2	28	2	30	10	40	50	STW

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have attempted: A24023 Architectural Drawing - II	After successful completion of this course, student should be able to: <ul style="list-style-type: none"> understand technical drawings and computer generated representation as designing tools. To comprehend computer modelling and visualization as a way of evaluating design alternatives.

UNITS

UN	Name of the Unit	CSs	Questions
1-1	Computer aided architectural modeling	CP Block 01	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
1-2	Model segmentation by grouping, Solid Modelling	CSs 01-15	
2-1	Computer aided rendering and animation	CP Block 02	Students have to submit 'Term Work' for end exam on these units.
2-2	Designing a small spatial composition	CSs 16-30	

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1-1	Computer aided architectural modeling: 3D Form / Space, Structure, Planes and Solids, Grids etc. Definition of Space, Articulation, Circulation, Movement, 3D Viewing, Orthographic and Perspective projection, Camera control, Viewpoint, Coordinate Systems orientation and Transformations etc.	CP Block 01

	3D construction from profiles, extrusion, revolution, interpolation, Surface Modeling, Elements, Planar and curved surfaces etc.	
1-2	Model segmentation by grouping, Solid Modeling, Addition, Subtraction and Intersection of solids Construction of architectural models as a spatial database of formal elements and structure.	
2-1	Computer aided rendering and animation: Basic Shading models, Light Models, Sun-path simulation, Camera control and creation of Spatial sequences with light and shade etc. Constructing three dimensional scale models of selected works of architecture. Exploding model into tangible components	CP Block 02
2-2	Designing a small spatial composition using a set of generic formal elements with simple functional requirements. Preparing working drawings and details of architectural design projects of load bearing structures done in previous semesters elements and structure.	

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24033-TB1			
Reference-Books			
A24033-RB1	Architectural Graphics : C. Leslie Martin		
A24033-RB2	Perspective for the Architect : Thames and Hudson		
A24033-RB3	Rendering with Pen and Ink, Jacoby		
A24033-RB4	Architectural Graphics – Ching Frank		
A24033-RB5	Sketchbook by Milind Mulik		
A24033-RB6	Pencil Sketching - Vyaktichitre by Pundalik Vaze		
A24033-RB7	Water Colour by Milind Mulik		
A24033-RB8	Colour Pencil by Rahul Deshpande & Gopal Nandurkar		
CD / DVD			
A24033-CD1			
A24033-CD2			
Web Links			
A24033-WL1			

A24034: BUILDING SERVICES & SCIENCES - I

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
03	A24034	Building Services & Sciences 1	4	56	4	120	20	80	100	STW

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
<p>For successful completion of this course, student should have successfully completed:</p> <ul style="list-style-type: none"> 10+2 or equivalent from a recognized Board/University. OR 10+3 Diploma (any stream) recognised by Central/ State. OR International Baccalaureate Diploma, after 10 years of schooling 	<p>After successful completion of this course, student should be able to:</p> <ul style="list-style-type: none"> Understand Building and Environmental Climatology. Natural & Artificial Ventilation..

UNITS

UN	Name of the Unit	CSs	Questions
1	Built environment, conditions, impact and issues of climatic balance.	CP Block 01 CSs 01-15	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
2	Natural Ventilation.	CP Block 02 CSs 16-30	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units
3	Human - Physical comfort.	CP Block 03 CSs 31-45	Students have to submit 'Term Work' for end exam on these units.

4	Air conditioning Ventilation Equipment & systems.	CP Block 04 CSs 46-60	Students have to submit 'Term Work' for end exam on these units.
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DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1-1	Built environment, conditions, impact and issues of climatic balance in traditional and contemporary built environments. Examples from different regions in India and other parts of the world, issues of ecological balance. Building climatology – site analysis, application of comfort diagrams, introduction to basic thermal units, theory of heat flow, heat transmission, thermal properties of materials, human heat balance.	CP Block 01
2	Natural Ventilation: Study of Passive Environmental Control Mechanisms in Traditional or Modern Built Environment. Heat control, solar orientation, shading devices, radiation, outdoor-indoor ventilation, solar energy and its technical applications. Studies through built environment, case analysis, theory and its application, models and testing.	CP Block 02
3	Human - Physical comfort, outdoors and indoors, heat flow within buildings, steady state conditions and periodic flow, thermal performance of building elements, sun protection of buildings. Artificial Ventilation. Concept of Heat Exchange- Heating / cooling loads.	CP Block 03
4	Air conditioning Ventilation Equipment & systems presently used . their working, installation requirements and demands in building layout, supply air, return air ducting systems, their layouts and requirements within building systems, co-ordination to building systems.	CP Block 034

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24034-TB1			
A24034-TB2			
Reference-Books			
A24034-RB1			
A24034-RB2			
A24034-RB3			
A24034-RB4			
A24034-RB5			
A24034-RB6			
CD / DVD			
A24034-CD1			
A24034-CD2			
Web Links			
A24034-WL1			

A24034-WL2			
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A24035: BUILDING CONSTRUCTION III

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
03	A24035	Building Construction - 3	4	56	4	120	20	80	100	SV

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have attempted: A24025 Building Construction II	After successful completion of this course, student should be able to Understand materials used in construction, principles of construction, building systems and simple elements of buildings and their behavior.

UNITS

UN	Name of the Unit	CSs	Questions
1	Building materials: Manufactured products.	CP Block 01 CSs 01-15	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
2	Construction details of Framing of openings.	CP Block 02 CSs 16-30	Students have to submit 'Term Work' for end exam on these units.
3	Interior construction-1	CP Block 03 CSs 31-45	Students have to submit 'Term Work' for end exam on these units.
4	Interior construction-2	CP Block 04 CSs 46-60	Students have to submit 'Term Work' for end exam on these units.

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1	Manufactured products like Tiles, processed wood products. Applied finishes like plasters, paints. Decorative & protective finishes. Construction chemicals, admixtures, adhesives.	CP Block 01
2	Framing of openings, Doors, windows in using various materials like wood, steel, aluminium, etc.	CP Block 02
3	Interior construction- details of construction of False ceilings & partitions in wood, steel, aluminium, glass, wood base boards, other manufactured boards, panelling, dry wall construction.	CP Block 03
4	Interior construction- construction of furniture, cabinets, cupboards in wood, steel, various types of boards and other manufactured material.	CP Block 04

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24035-TB1			
A24035-TB2			
Reference-Books			
A24035-RB1	Elements of structure by Morgan		
A24035-RB2	Structure in Architecture by Salvadori		
A24035-RB3	Building construction by Mckay W. B., Vol. 1 to 4		
A24035-RB4	Construction of Building by Barry, Vol. I to V		
A24035-RB5	Construction Technology by Chudley R. Vol. I to IV		
A24035-RB6	Building Construction Illustrated – Ching Francis D.K.		
A24035-RB7	Elementary Building Construction by Michell		
A24035-RB8	Engineering Material – Chaudhary		
A24035-RB9	Building Construction Materials – M. V. Naik		
A24035-RB10	Civil Engineer’s Hand Book – Khanna		
A24035-RB11	Vastu Rachana – Shri Sane		

A24035-RB12	National Building code and ISI specifications		
CD / DVD			
A24035-CD1			
A24035-CD2			
Web Links			
A24035-WL1			
A24035-WL2			

A24036: ARCHITECTURAL DESIGN III

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
03	A24036	Architectural Design - 3	8	112	8	240	40	160	200	SV

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have attempted: A24026 Architectural Design - II	After successful completion of this course, student should be able to Understand Structure as one of the major determinant of space and form.

UNITS

UN	Name of the Unit	CSs	Questions
1	Structure and Construction as disciplines that evolve making of space	CP Block 01 CSs 01-15	Students are expected to complete sufficient number of projects related to this course, with regular critical remarks and assessment from the counselor and peer students, during the semester. External and internal experts will jointly evaluate these projects for 100 marks with viva after presentation by the student for about 5-7 minutes.
2	Structural systems as choices based on program, space, and form character. Space Structure correlation	CP Block 02 CSs 16-30	
3	Study and Analysis of Natural and Manmade structural systems, correlation between function, structure and form. Different structural models in Building systems..	CP Block 03 CSs 31-45	
4	Site, building, space, structure, form, character correlations	CP Block 04 CSs 46-60	

5	Light, view and sensory qualities.	CP Block 05 CSs 61-75
6	Light, view and sensory qualities.	CP Block 06 CSs 76-90
7	Models as analytical tools of decision making	CP Block 07 CSs 91-105
8	Abstract sketches to represent basic nature of thought, collage techniques, 3D perceptual quality in sketches	CP Block 08 CSs 105-120

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1	Structure and Construction as disciplines that evolve making of space	CP Block 01
2	Structural systems as choices based on program, space, and form character. Space Structure correlation	CP Block 02
3	Study and Analysis of Natural and Manmade structural systems, correlation between function, structure and form. Different structural models in Building systems..	CP Block 03
4	Site, building, space, structure, form, character correlations	CP Block 04
5	Light, view and sensory qualities.	CP Block 05
6	Light, view and sensory qualities.	CP Block 06

7	Models as analytical tools of decision making	CP Bock 07
8	Abstract sketches to represent basic nature of thought, collage techniques, 3D perceptual quality in sketches	CP Bock 08

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24026-TB1			
A24026-TB2			
Reference-Books			
A24026-RB1	Design Methods by Jones C. J.	(1992)	John Willey and Sons, Inc. ISBN- 0-471- 28496-3
A24026-RB2	How Designers think: the design process demystified by Lawson B.	2005	Architectural Press, Oxford ISBN 13-978-0-7506- 6077-8
A24026-RB3	Elements of Design: Rowena Reed Kostellow and the Structure of Visual Relationships Hannah G.G	2002	Princeton Architectural Press, NY, USA ISBN 1-56898-329-8
A24026-RB4	Thinking Design By Prof S Balram		
A24026-RB5	Visual Thinking by Frank M. Young		
A24026-RB6	The Art of Looking Sideways		
A24026-RB7	Concepts and Responses		
CD / DVD			
A24026-CD1			
A24026-CD2			
Web Links			
A24026-WL1			
A24026-WL2			

SEMESTER 04

A24041: THEORY OF STRUCTURES - IV

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
04	A24041	Theory of Structures - IV	2	20	2	60	10	40	50	TH

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have attempted: A24031: Theory of Structures – III	After successful completion of this course, student should be able to Understand behavior of advanced elements in structure. The study of steel as structural material and the role of properties of material and behavior of elements in evolution of structural system

UNITS

UN	Name of the Unit	CSs	Questions
1-1	Determinate and indeterminate structures.	CP Block 01	Students have to answer '1 of 1' SAQ in CA and '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
1-2	Arch as a curved element	CSs 01-15	
2-1	Steel as a structural material.	CP Block 02	Students have to answer '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
2-2	Designing & detailing the bolted connections.	CSs 16-30	

DETAILED SYLLABUS

UN	Detailed Syllabus of the Unit	CP
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		Block
1-1	Determinate and indeterminate structures, finding indeterminacy of structures. Advantages and disadvantages of indeterminate structures. Analysis of indeterminate structures. Introduction to stiffness and distribution factors, introduction to moment distribution factors, introduction to moment distribution method. Indeterminacy of a frame, comparison of post and lintel system and portal frames. Importance of portal frames in resisting horizontal forces.	CP Block 01
1-2	Arch as a curved element. Arch in history, efficiency of an arch. Three hinged arch. Simple problems to illustrate the importance of the shape of an arch, rise end conditions and loading.	
2-1	Steel as a structural material, structural systems in steel with case studies Analysis and design of steel girders & columns using IS-800 & handbook of steel sections.	CP Block 02
2-2	Designing & detailing the bolted connections, design of simple welded connections.	

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24041-TB1			
A24041-TB2			
Reference-Books			
A24041-RB1	Strength of Materials – by Khurmi R.S.		
A24041-RB2	Applied Mechanics and Strength of Material – by Khurmi. R. S.		
CD / DVD			
A24041-CD1			
A24041-CD2			
Web Links			
A24041-WL1			
A24041-WL2			
A24041-WL3			
A24041-WL4			
A24041-WL5			

A24042: CULTURE AND BUILT FORM - IV

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
04	A24042	Culture and Built form - IV	4	40	4	44	20	80	100	TH

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have attempted: A24022 Culture and Built form - III	After successful completion of this course, student should be able to that: <ul style="list-style-type: none"> Development of architecture and structural systems based on knowledge of materials and technology developed from 0 A.D. to 1300 A.D. contextual to the social and cultural history of the place.

UNITS

UN	Name of the Unit	CSs	Questions
1	Architectural developments from 0 A.D. to 1300 A.D., in INDIA	CP Block 01 CSs 01-10	Students have to answer '1 of 1' SAQ in CA and '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
2	Architectural developments from 0 A.D. to 1300 A.D, in WEST ASIA & EAST ASIA.	CP Block 02 CSs 11-20	Students have to answer '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units
3	Architectural developments from 0 A.D. to 1300 A.D., in EUROPE.	CP Block 03 CSs 21-30	Students have to answer '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.

4	Architectural developments from 0 A.D. to 1300 A.D., in AFRICA & AMERICAS.	CP Block 04 CSs 31-40	Students have to answer '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
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DETAILED SYLLABUS

UN	Detailed Syllabus of the Unit	CP Block
1	INDIA – Brahminical resurgence, Buddhist monuments, Cave architecture, architecture of Gupta period, Pallava period, Chola and Pandyas development of temple styles, Shankaracharya in South, Islamic invasions in North, Nagara temple style developed, Slave dynasty founded, Era of saints Dnyaneshwar, Tukaram, Independent Muslim states founded	CP Block 01
2	WEST ASIA–Trade between India, Asia, Europe, Zoroastrianism in Iran, Buddhism in Afghanistan, Sassanid rule in Persia, Spread of Islam, Caliphates, Arab renaissance, Mongol invasion, Destruction of Baghdad by Genghis Khan, Mongols rule over West Asia, Ottoman rule starts. EAST ASIA–Paper invented, Buddhism in China, Srilanka, Japan, First writings, Buddhist influence in Chinese art & arch., Nara civilization in Japan, Angkor Wat in Cambodia, Planned city of Peking capital of Ming dynasty.	CP Block 02
3	EUROPE – Christianity spreads in Rome, Fall of Roman Empire, Dark Ages begin, Rise of monasteries, Moorish rule in Spain, Crusades begin, The Alhambra, Gothic architecture	CP Block 03
4	AFRICA – Kingdom of Ghana, Rapid spread of Islam. AMERICAS – Mayan cities, Peak of Mayan empire, Peak of Chimu empire, Inca rule begins, Beginning of Aztec rule	CP Block 04

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24042-TB1			
A24042-TB2			
Reference-Books			
A24042-RB1	Pt. Jawaharlal Nehru, "Glimpses of World History"		
A24042-RB2	Geoffrey and Susan Jellicoe, "Landscape of Man"		
A24042-RB3	Sir Bannister Fletcher, "The History of Architecture"		
A24042-RB4	Spiro Kostof "History of Architecture"		
A24042-RB5	Markus Hattsein Peter Dellus ed. "Islamic Art and Architecture"		
CD / DVD			

A24042-CD1			
A24042-CD2			
Web Links			
A24042-WL1			
A24042-WL2			
A24042-WL3			
A24042-WL4			
A24042-WL5			

A24043: ARCHITECTURAL DRAWING IV

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
04	A24043	Architectural Drawing - IV	2	28	2	30	10	40	50	STW

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have attempted: A24033 Architectural Drawing - III	After successful completion of this course, student should be able to: <ul style="list-style-type: none"> Understand Methods of recording and representing spatial information.

UNITS

UN	Name of the Unit	CSs	Questions
1	Types of information recording: surveys, photography etc	CP Block 01 CSs 01-15	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
2	Types of maps, drawings and digitized data	CP Block 02 CSs 16-30	Students have to submit 'Term Work' for end exam on these units.

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1	Types of information recording: surveys, photography etc. Tools & Techniques employed at various scales and complexity of information. Degrees of accuracy and errors. Reliability of data, cross checking.	CP Block 01
2	Types of maps, drawings and digitized data. Reading information from visual records, analysis, co-relations etc.	CP Block 02

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24043-TB1			
Reference-Books			
A24043-RB1	Architectural Graphics : C. Leslie Martin		
A24043-RB2	Perspective for the Architect : Thames and Hudson		
A24043-RB3	Rendering with Pen and Ink, Jacoby		
A24043-RB4	Architectural Graphics – Ching Frank		
A24043-RB5	Sketchbook by Milind Mulik		
A24043-RB6	Pencil Sketching - Vyaktichitre by Pundalik Vaze		
A24043-RB7	Water Colour by Milind Mulik		
A24043-RB8	Colour Pencil by Rahul Deshpande & Gopal Nandurkar		
CD / DVD			
A24043-CD1			
A24043-CD2			
Web Links			
A24043-WL1			

A24044: BUILDING SERVICES & SCIENCES - II

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
04	A24044	Building Services & Sciences II	4	56	4	120	20	80	100	STW

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have attempted: A24034 Building Services & Sciences I	After successful completion of this course, student should be able to: <ul style="list-style-type: none">Understand Environmental control systems- Sanitation & Water supply.

UNITS

UN	Name of the Unit	CSs	Questions
1	Water Supply: Sources of water, Distribution	CP Block 01 CSs 01-15	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
2	Internal Plumbing installations.	CP Block 02 CSs 16-30	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units
3	Drainage & Sanitation: Systems of disposal	CP Block 03 CSs 31-45	Students have to submit 'Term Work' for end exam on these units.
4	Design of Disposal of Rain & surface water	CP Block 04 CSs 46-60	Students have to submit 'Term Work' for end exam on these units.

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1	Water Supply: Sources of water, Distribution of water supply in the premises & within the building. Water for drinking & other uses. Characteristics purity of water, standards for purity of water, methods of purification of water. Storage of water. Determination of demand and requirement standards. Hot water supply	CP Block 01
2	Internal Plumbing installations. Equipment – Fittings, fixtures & specials used in Plumbing. Internal plumbing layouts, determination of pipe sizes for desired distribution. Hot water supply systems & layouts.	CP Block 02
3	Drainage & Sanitation: Systems of disposal of Drainage & waste water within a building & within premises. Septic tanks, Bio gas plants & other methods of disposal. Sanitary fittings -fixtures their working & installation. Sanitation layouts for installation in building and in premises.	CP Block 03
4	Design of Disposal of Rain & surface water in a campus. Equipments & systems for Refuge & garbage disposal. Rainwater harvesting & other methods of conserving water resources	CP Block 034

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24044-TB1			
A24044-TB2			
Reference-Books			
A24044-RB1			
A24044-RB2			
A24044-RB3			
A24044-RB4			
A24044-RB5			
A24044-RB6			
CD / DVD			
A24044-CD1			
A24044-CD2			
Web Links			
A24044-WL1			
A24044-WL2			

A24045: BUILDING CONSTRUCTION IV

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
04	A24045	Building Construction - IV	4	56	4	120	20	80	100	SV

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have attempted: A24035 Building Construction III	After successful completion of this course, student should be able to Understand materials used in construction, principles of construction, building systems and simple elements of buildings and their behavior.

UNITS

UN	Name of the Unit	CSs	Questions
1	Construction of Temporary structures.	CP Block 01 CSs 01-22	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
2	Framed type construction in R.C.C. -1	CP Block 02 CSs 23-45	Students have to submit 'Term Work' for end exam on these units.
3	Framed type construction in R.C.C. -2	CP Block 03 CSs 46-67	Students have to submit 'Term Work' for end exam on these units.
4	Temporary supports like formwork.	CP Block 04 CSs 68-90	Students have to submit 'Term Work' for end exam on these units.

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1	Construction of Temporary structures like work sheds, construction of compound fences, gates, grills in wood, steel etc.	CP Block 01
2	Framed type construction in R.C.C.- footings, vertical & horizontal frame members, R.C.C. slabs-floors	CP Block 02
3	R.C.C. slabs Staircases, other elements like projections, thin R.C.C. members (chajjas, pardis, walls).	CP Block 03
4	Temporary supports like formwork, strutting, scaffolding.	CP Block 04

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24045-TB1			
A24045-TB2			
Reference-Books			
A24045-RB1	Elements of structure by Morgan		
A24045-RB2	Structure in Architecture by Salvadori		
A24045-RB3	Building construction by Mckay W. B., Vol. 1 to 4		
A24045-RB4	Construction of Building by Barry, Vol. I to V		
A24045-RB5	Construction Technology by Chudley R. Vol. I to IV		
A24045-RB6	Building Construction Illustrated – Ching Francis D.K.		
A24045-RB7	Elementary Building Construction by Michell		
A24045-RB8	Engineering Material – Chaudhary		
A24045-RB9	Building Construction Materials – M. V. Naik		
A24045-RB10	Civil Engineer’s Hand Book – Khanna		
A24045-RB11	Vastu Rachana – Shri Sane		

A24045-RB12	National Building code and ISI specifications		
CD / DVD			
A24045-CD1			
A24045-CD2			
Web Links			
A24045-WL1			
A24045-WL2			

A24046: ARCHITECTURAL DESIGN IV

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
04	A24046	Architectural Design - IV	8	112	8	240	40	160	200	SV

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have attempted: A24036 Architectural Design - III	After successful completion of this course, student should be able to Understand Dwelling as a expression of culture and a society's sense of place. Dwelling and building for family living. Expressions specific to different climatic zones and cultures of India

UNITS

UN	Name of the Unit	CSs	Questions
1 To 4	Occupation and meanings of various spaces within the dwelling. Dwelling and its immediate external context. Street, Gully, Aangan, Mohalla etc. issue of changing lifestyles.	CP Block 01 CSs 01-90	Students are expected to complete sufficient number of projects related to this course, with regular critical remarks and assessment from the counselor and peer students, during the semester. External and internal experts will jointly evaluate these projects for 100 marks with viva after presentation by the student for about 5-7 minutes.
5 to 8	Understanding of Appropriate Technologies and Methods of Construction. Dwelling and community - Unit and Cluster combinational principles	CP Block 02 CSs 90-180	

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block

1 to 4	Occupation and meanings of various spaces within the dwelling. Dwelling and its immediate external context. Street, Gully, Aangan, Mohalla etc. issue of changing lifestyles.	CP Book 01 to 4
5 to 8	Understanding of Appropriate Technologies and Methods of Construction. Dwelling and community - Unit and Cluster combinational principles	CP Book 05 to 8

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24046-TB1			
A24046-TB2			
Reference-Books			
A24046-RB1	Design Methods by Jones C. J.	(1992)	John Willey and Sons, Inc. ISBN- 0-471- 28496-3
A24046-RB2	How Designers think: the design process demystified by Lawson B.	2005	Architectural Press, Oxford ISBN 13-978-0-7506- 6077-8
A24046-RB3	Elements of Design: Rowena Reed Kostellow and the Structure of Visual Relationships Hannah G.G	2002	Princeton Architectural Press, NY, USA ISBN 1-56898-329-8
A24046-RB4	Thinking Design By Prof S Balram		
A24046-RB5	Visual Thinking by Frank M. Young		
A24046-RB6	The Art of Looking Sideways		
A24046-RB7	Concepts and Responses		
CD / DVD			
A24046-CD1			
A24046-CD2			
Web Links			
A24046-WL1			
A24046-WL2			

SEMESTER 05

A24051: THEORY OF STRUCTURES - V

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
05	A24051	Theory of Structures - V	2	20	2	60	10	40	50	TH

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed course: A24011: Theory of Structures – I	After successful completion of this course, student should be able to Understand Course emphasis on understanding of section design in R.C.C. and its implication on design of structures

UNITS

UN	Name of the Unit	CSs	Questions
1-1	Theory of composite sections applied to R.C.C. structures.	CP Block 01	Students have to answer '1 of 1' SAQ in CA and '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
1-2	Effects of continuity.	CSs 01-10	
2-1	Design of shear reinforcement.	CP Block 02	Students have to answer '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
2-2	Types of foundations and their use.	CSs 11-20	

DETAILED SYLLABUS

UN	Detailed Syllabus of the Unit	CP Block
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1-1	Theory of composite sections applied to R.C.C. structures. Review of properties of concrete and steel as applicable to R.C.C. Fundamental assumptions of R.C.C. structure. Analysis and design of singly reinforced sections, under reinforced, over reinforced and balanced sections. Analysis and design of one way and two way slab using coefficients and standard tables. Theory of composite sections applied to R.C.C. structures.	CP Bock 01
1-2	Effects of continuity. Detailing of reinforcement, provisions of IS 456. Derivation of thumb rules. Doubly reinforced section, effect of compression, steel on deflection. Diagonal tension, its effect and methods of resisting it.	
2-1	Design of shear reinforcement. Bond and its significance, types of bond, pull out test, factors affecting bond, local and average bond, design for bond, code provisions. Elements subjected to axial compression, types of columns, permissible stresses in concrete and steel, analysis and design of short columns, slenderness and its effect on the load carrying capacity, analysis and design of long columns. Columns of a multi-story building, code provisions, derivation of thumb rule.	CP Bock 02
2-2	Types of foundations and their use, punching shear, analysis and design of spread footings, structural behavior of other types of foundations. Principles and Practices of Earthquake Resistant structures	

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24051-TB1			
A24051-TB2			
Reference-Books			
A24051-RB1	Strength of Materials – by Khurmi R.S.		
A24051-RB2	Applied Mechanics and Strength of Material – by Khurmi. R. S.		
CD / DVD			
A24051-CD1			
A24051-CD2			
Web Links			
A24051-WL1			
A24051-WL2			
A24051-WL3			
A24051-WL4			
A24051-WL5			

A24052: CULTURE AND BUILT FORM - V

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
05	A24052	Culture and Built form - V	4	40	4	44	20	80	100	TH

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed course: A24012 Culture and Built form - I	After successful completion of this course, student should be able to that: <ul style="list-style-type: none"> Development of architecture and structural systems based on knowledge of materials and technology developed from 1800 A.D. to 2000 A.D. contextual to the social and cultural history of the place

UNITS

UN	Name of the Unit	CSs	Questions
1	Architectural developments from 1400 A.D. to 1700 A.D., in INDIA	CP Block 01 CSs 01-10	Students have to answer '1 of 1' SAQ in CA and '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
2	Architectural developments from 1400 A.D. to 1700 A.D., in WEST ASIA	CP Block 02 CSs 11-20	Students have to answer '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units
3	Architectural developments from 1400 A.D. to 1700 A.D., in EUROPE.	CP Block 03 CSs 21-30	Students have to answer '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.

4	Architectural developments from 1400 A.D. to 1700 A.D., in AMERICAS.	CP Block 04 CSs 31-40	Students have to answer '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
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DETAILED SYLLABUS

UN	Detailed Syllabus of the Unit	CP Block
1	Architectural developments from 1400 A.D. to 1700 A.D., in INDIA: INDIA – Bhakti movement, Mughal empire, Vijaynagar empire, Maratha empire under Shivaji, Mughal empire ends, and East India Company becomes powerful.	CP Block 01
2	Architectural developments from 1400 A.D. to 1700 A.D., in WEST ASIA: WEST ASIA: Turkish capture of Constantinople, Ottoman domination of Islamic world.	CP Block 02
3	Architectural developments from 1400 A.D. to 1700 A.D., in EUROPE: Renaissance, Baroque, Age of enlightenment.	CP Block 03
4	Architectural developments from 1400 A.D. to 1700 A.D., in AMERICAS: Inca and Aztec civilizations destroyed, War of independence	CP Block 04

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24052-TB1			
A24052-TB2			
Reference-Books			
A24052-RB1	Pt. Jawaharlal Nehru, "Glimpses of World History"		
A24052-RB2	Geoffrey and Susan Jellicoe, "Landscape of Man"		
A24052-RB3	Sir Bannister Fletcher, "The History of Architecture"		
A24052-RB4	Spiro Kostof "History of Architecture"		
A24052-RB5	Markus Hattsein Peter Dellus ed. "Islamic Art and Architecture"		
CD / DVD			
A24052-CD1			
A24052-CD2			
Web Links			
A24052-WL1			

A24052-WL2			
A24052-WL3			
A24052-WL4			
A24052-WL5			

A24053: ELECTIVES 1 –A VISUAL COMMUNICATION

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
05	A24053	Elective 1 –A Visual Communication	2	28	2	30	10	40	50	STW

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed: A24013 Architectural Drawing - I	After successful completion of this course, student should be able to: <ul style="list-style-type: none"> An overview of importance of visual communication in the built environment to facilitate way finding.

UNITS

UN	Name of the Unit	CSs	Questions
1-1	Visual and tactile communication system theories	CP Block 01 CSs 01-15	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
1-2	Visual and tactile communication system industry		
2-1	Way finding in Language & universal communication in architecture, interiors and landscape.	CP Block 02 CSs 16-30	Students have to submit 'Term Work' for end exam on these units.
2-2	Architecture as visually communicating entities in the electronic age		

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1-1	Visual and tactile communication system theories	CP Block 01
1-2	Visual and tactile communication system industry	

2-1	Way finding in Language & universal communication in architecture, interiors and landscape	CP Bock 02
2-2	Architecture as visually communicating entities in the electronic age	

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24053-TB1			
Reference-Books			
A24053-RB1			
A24053-RB2			
A24053-RB3			
A24053-RB4			
A24053-RB5			
A24053-RB6			
A24053-RB7			
A24053-RB8			
CD / DVD			
A24053-CD1			
A24053-CD2			
Web Links			
A24053-WL1			

A25053: ELECTIVES 1 –B ART IN ARCHITECTURE

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
05	A25053	Elective 1 –B Art in Architecture	2	28	2	30	10	40	50	STW

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed: A24013 Architectural Drawing - I	After successful completion of this course, student should be able to: <ul style="list-style-type: none"> An overview of role of art in the history of world architecture and the symbiotic relationship of art in architecture.

UNITS

UN	Name of the Unit	CSs	Questions
1-1	Brief history of world art and different isms of art Influence of art and artists on architecture	CP Block 01	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
1-2	Artist – Architects in history, Paintings to murals – art as body of architecture.	CSs 01-15	
2-1	History of Indian art and influences on architecture	CP Block 02	Students have to submit 'Term Work' for end exam on these units.
2-2	Ethnic/tribal art and architecture.	CSs 16-30	

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1-1	Brief history of world art and different isms of art Influence of art and artists on architecture	CP Block 01
1-2	Artist – Architects in history, Paintings to murals – art as body of architecture.	
2-1	History of Indian art and influences on architecture	CP

2-2	Ethnic/tribal art and architecture.	Book 02
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LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A25053-TB1			
Reference-Books			
A25053-RB1			
A25053-RB2			
A25053-RB3			
A25053-RB4			
A25053-RB5			
A25053-RB6			
A25053-RB7			
A25053-RB8			
CD / DVD			
A25053-CD1			
A25053-CD2			
Web Links			
A25053-WL1			

A24054: BUILDING SERVICES & SCIENCES - III

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
05	A24054	Building Services & Sciences III	4	56	4	120	20	80	100	STW

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed course:	After successful completion of this course, student should be able to: <ul style="list-style-type: none"> Understand Environmental control systems- Lighting & Illumination, Electrical & Mechanical Services.

UNITS

UN	Name of the Unit	CSs	Questions
1	Natural Light & Illumination.	CP Block 01 CSs 01-15	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
2	Artificial Lighting & Illumination.	CP Block 02 CSs 16-30	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units
3	Electrical and communication services.	CP Block 03 CSs 31-45	Students have to submit 'Term Work' for end exam on these units.

4	Mechanical Services in a building.	CP Block 04 CSs 46-60	Students have to submit 'Term Work' for end exam on these units.
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DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1	Natural Light & Illumination. , solar orientation, shading devices, radiation, outdoor-indoor illumination, solar energy and its technical applications. Studies through built environment, case analysis, theory and its application, models and testing	CP Block 01
2	Artificial Lighting & Illumination. Physics of light, Human – visual comfort, Sources of Artificial Illumination, their characteristics, Illumination level standards, Lighting design: Studies through built environment, case analysis, theory and its application, models and testing, their layouts and requirements within building systems, co-ordination to building systems.	CP Block 02
3	Electrical and communication services. Electrical Distribution – Mains supply, Ht-Lt consumer, distribution within premises and within a building: electrical load estimation & distribution. Equipment like switches, luminaries, safety devices, fans, etc. Electrical layouts for premises & within a building. Other distribution systems for networking, Internet etc.	CP Block 03
4	Mechanical Services in a building. Vertical & horizontal transportation systems like Lifts, escalators, dumb waiters, conveyor paths. Determining the demand, carrying capacity, travel time, co-ordination, space requirements & installation of such equipment. Layouts of lift banks, Escalators etc. in a building.	CP Block 034

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24054-TB1			
A24054-TB2			
Reference-Books			
A24054-RB1			
A24054-RB2			
A24054-RB3			
A24054-RB4			
A24054-RB5			
A24054-RB6			
CD / DVD			
A24054-CD1			
A24054-CD2			
Web Links			

A24054-WL1			
A24054-WL2			

A24055: BUILDING CONSTRUCTION V

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
05	A24055	Building Construction - V	4	56	4	120	20	80	100	SV

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed: A24015 Building Construction I	After successful completion of this course, student should be able to Understand materials used in construction, principles of construction, building systems and simple elements of buildings and their behavior.

UNITS

UN	Name of the Unit	CSs	Questions
1	Advanced construction techniques-1	CP Block 01 CSs 01-15	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
2	Advanced construction techniques-2	CP Block 02 CSs 16-30	Students have to submit 'Term Work' for end exam on these units.
3	Advanced construction techniques-3	CP Block 03 CSs 31-45	Students have to submit 'Term Work' for end exam on these units.
4	Building repairs & remodelling.	CP Block 04 CSs 45-60	Students have to submit 'Term Work' for end exam on these units.

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1	Advanced construction techniques: Composite structures, Systems developed in response to- Earthquake zone, adverse site conditions like expansive soils – shallow & deep foundations, piles & raft foundations.	CP Block 01
2	Advanced construction techniques: Retaining structures and various practices in their construction.	CP Block 02
3	Advanced construction techniques: Construction of manufactured systems for curtain walls, skylight	CP Block 03
4	Building repairs & remodelling: Temporary supports like formwork, strutting, scaffolding, shoring. Procedure of carrying out repairs, construction details for building services.	CP Block 04

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24055-TB1			
A24055-TB2			
Reference-Books			
A24055-RB1	Elements of structure by Morgan		
A24055-RB2	Structure in Architecture by Salvadori		
A24055-RB3	Building construction by Mckay W. B., Vol. 1 to 4		
A24055-RB4	Construction of Building by Barry, Vol. I to V		
A24055-RB5	Construction Technology by Chudley R. Vol. I to IV		
A24055-RB6	Building Construction Illustrated – Ching Francis D.K.		
A24055-RB7	Elementary Building Construction by Michell		
A24055-RB8	Engineering Material – Chaudhary		
A24055-RB9	Building Construction Materials – M. V. Naik		
A24055-RB10	Civil Engineer’s Hand Book – Khanna		
A24055-RB11	Vastu Rachana – Shri Sane		

A24055-RB12	National Building code and ISI specifications		
CD / DVD			
A24055-CD1			
A24055-CD2			
Web Links			
A24055-WL1			
A24055-WL2			

A24056: ARCHITECTURAL DESIGN V

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
05	A24056	Architectural Design - V	8	112	8	240	40	160	200	SV

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed: A24016 Architectural Design - I	After successful completion of this course, student should be able to Understand Dwelling, community and neighborhood

UNITS

UN	Name of the Unit	CSs	Questions
1 To 4	Issues of Identity, Scale, Public spaces, Context, Grouping of buildings, Infrastructure for community formation etc.	CP Block 01 to 4 CSs 01-60	Students are expected to complete sufficient number of projects related to this course, with regular critical remarks and assessment from the counselor and peer students, during the semester. External and internal experts will jointly evaluate these projects for 100 marks with viva after presentation by the student for about 5-7 minutes.
5 to 8	Urban neighbourhoods, traditional and present day composition, structure, density, land use coverage, building controls, urban infrastructure and services.	CP Block 05 to 8 CSs 61-120	

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1 to 4	Issues of Identity, Scale, Public spaces, Context, Grouping of buildings, Infrastructure for community formation etc.	CP Block 01 to

		4
5 to 8	Urban neighbourhoods, traditional and present day composition, structure, density, land use coverage, building controls, urban infrastructure and services.	CP Book 05 to 8

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24056-TB1			
A24056-TB2			
Reference-Books			
A24056-RB1	Design Methods by Jones C. J.	(1992)	John Wiley and Sons, Inc. ISBN- 0-471- 28496-3
A24056-RB2	How Designers think: the design process demystified by Lawson B.	2005	Architectural Press, Oxford ISBN 13-978-0-7506- 6077-8
A24056-RB3	Elements of Design: Rowena Reed Kostellow and the Structure of Visual Relationships Hannah G.G	2002	Princeton Architectural Press, NY, USA ISBN 1-56898-329-8
A24056-RB4	Thinking Design By Prof S Balram		
A24056-RB5	Visual Thinking by Frank M. Young		
A24056-RB6	The Art of Looking Sideways		
A24056-RB7	Concepts and Responses		
CD / DVD			
A24056-CD1			
A24056-CD2			
Web Links			
A24056-WL1			
A24056-WL2			

SEMESTER 06

A24061: COST ESTIMATION

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
06	A24061	Cost Estimation	2	20	2	60	10	40	50	TH

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed course: A24015-55 Building Construction - I -V	After successful completion of this course, student should be able to Understand quantity Survey and cost analysis so as to make estimates in the design process.

UNITS

UN	Name of the Unit	CSs	Questions
1	Estimation: Methods of Quantity surveying	CP Block 01 CSs 01-10	Students have to answer '1 of 1' SAQ in CA and '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
2	Rate and Cost Analysis	CP Block 02 CSs 11-20	Students have to answer '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.

DETAILED SYLLABUS

UN	Detailed Syllabus of the Unit	CP Block
1	Estimation: Methods of Quantity surveying, Methods of recording measurements, computing quantities of different Items in a building from working drawings. Schedule of Quantities	CP Bock 01
2-1	Rate and Cost Analysis: Methods of Analysis of rates of different materials. Estimation of Materials, Labour, Transportation, Profit etc. components with respect to the specifications, site conditions, etc. in analysis of rates. Rate Abstracts.	CP Bock 02

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24061-TB1			
A24061-TB2			
Reference-Books			
A24061-RB1	Strength of Materials – by Khurmi R.S.		
A24061-RB2	Applied Mechanics and Strength of Material – by Khurmi. R. S.		
CD / DVD			
A24061-CD1			
A24061-CD2			
Web Links			
A24061-WL1			
A24061-WL2			
A24061-WL3			
A24061-WL4			
A24061-WL5			

A24062: CULTURE AND BUILT FORM - VI

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
06	A24062	Culture and Built form - VI	4	40	4	44	20	80	100	TH

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed course: A24022 Culture and Built form - II	After successful completion of this course, student should be able to that: <ul style="list-style-type: none"> Development of architecture and structural systems based on knowledge of materials and technology developed from 1800 A.D. to 2000 A.D. contextual to the social and cultural history of the place.

UNITS

UN	Name of the Unit	CSs	Questions
1	Architectural developments from 1800 A.D. to 2000 A.D, in INDIA & WORLD.	CP Block 01 CSs 01-10	Students have to answer '1 of 1' SAQ in CA and '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
2	Modern Movement, Neo-classicism and Post-Modern movements	CP Block 02 CSs 11-20	Students have to answer '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units
3	Influence of modernism in Indian architecture.	CP Block 03 CSs 21-30	Students have to answer '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.

4	Regionalism and the revolt against Universalistic Modernism.	CP Block 04 CSs 31-40	Students have to answer '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
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DETAILED SYLLABUS

UN	Detailed Syllabus of the Unit	CP Block
1	Architectural developments from 1800 A.D. to 2000 A.D. contextual, INDIA – British rule and colonial architecture and town planning developments, Colonial period in India. Portuguese, Dutch, French and British settlements and military installations. Fusion of local and imported styles. Post independence, new concepts in town planning, architecture, Corbusier and Chandigarh, Louis Kahn in India. WORLD- Industrial revolution, Mass production, World wars, Progress of US, Japan, Britain, Germany and France after the Wars	CP Block 01
2	Architectural developments from 1800 A.D. to 2000 A.D. contextual Modern Movement, Neo-classicism and Post-Modern movements. Theories and works of Walter Gropius, Corbusier, Mies van der Rohe, Frank Lloyd Wright, Richard Neutra, Philip Johnson, Saarinen, Louis Kahn, Kenzo Tange, I.M. Pei, Minoru Yamasaki, Tadao Ando, Charles Jencks etc.	CP Block 02
3	Influence of modernism in Indian architecture. Works of B.V. Doshi, A.P. Kanvinde, Charles Correa etc, Raj Rewal, J.A. Stein etc.	CP Block 03
4	Architectural developments from 1800 A.D. to 2000 A.D. contextual. Regionalism and the revolt against Universalistic Modernism. Works of Hassan Fathy, Laurie Baker, Geoffrey Bawa etc.	CP Block 04

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24062-TB1			
A24062-TB2			
Reference-Books			
A24062-RB1	Pt. Jawaharlal Nehru, "Glimpses of World History"		
A24062-RB2	Geoffrey and Susan Jellicoe, "Landscape of Man"		
A24062-RB3	Sir Bannister Fletcher, "The History of Architecture"		
A24062-RB4	Spiro Kostof "History of Architecture"		
A24062-RB5	Markus Hattsein Peter Dellus ed. "Islamic Art and Architecture"		

CD / DVD			
A24062-CD1			
A24062-CD2			
Web Links			
A24062-WL1			
A24062-WL2			
A24062-WL3			
A24062-WL4			
A24062-WL5			

A24063: ELECTIVES2–A GRAPHICS AND PRINTING TECHNOLOGY

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
02	A24025	Building Construction - 2	2	28	2	30	10	40	50	STW

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed: A24023 Architectural Drawing - II	After successful completion of this course, student should be able to: <ul style="list-style-type: none"> An overview of importance of graphic design and printing technology in the built environment.

UNITS

UN	Name of the Unit	CSs	Questions
1-1	Graphic design theories	CP Block 01 CSs 01-10	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
1-2	Logos and signage design		
2-1	Signboard art and hoardings in environment	CP Block 02 CSs 11-20	Students have to submit 'Term Work' for end exam on these units.
2-2	History of printing and printing technology		

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1-1	Graphic design theories	CP Block 01
1-2	Logos and signage design	
2-1	Signboard art and hoardings in environment	CP

2-2	History of printing and printing technology	Book 02
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LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24063-TB1			
Reference-Books			
A24063-RB1			
A24063-RB2			
A24063-RB3			
A24063-RB4			
A24063-RB5			
A24063-RB6			
A24063-RB7			
A24063-RB8			
CD / DVD			
A24063-CD1			
A24063-CD2			
Web Links			
A24063-WL1			

A25063: ELECTIVES 2 –B PHOTOGRAPHY AND ARCHITECTURE

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
06	A25063	Elective 2 –B Photography and Architecture	2	28	2	30	10	40	50	STW

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed: A24023 Architectural Drawing - II	After successful completion of this course, student should be able to: <ul style="list-style-type: none"> An overview of role of art in the history of world architecture and the symbiotic relationship of art in architecture.

UNITS

UN	Name of the Unit	CSs	Questions
1-1	History of photography, cameras, lenses	CP Block 01 CSs 01-10	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
1-2	Film based and digital photography		
2-1	Art of photography and great photographers of the world	CP Block 02 CSs 11-20	Students have to submit 'Term Work' for end exam on these units.
2-2	Architectural photography and documentation		

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1-1	History of photography, cameras, lenses	CP Block 01
1-2	Film based and digital photography	
2-1	Art of photography and great photographers of the world	CP Block
2-2	Architectural photography and documentation	

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A25063-TB1			
Reference-Books			
A25063-RB1			
A25063-RB2			
A25063-RB3			
A25063-RB4			
A25063-RB5			
A25063-RB6			
A25063-RB7			
A25063-RB8			
CD / DVD			
A25063-CD1			
A25063-CD2			
Web Links			
A25063-WL1			

A24064: BUILDING SERVICES & SCIENCES - IV

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
06	A24064	Building Services & Sciences IV	4	56	4	120	20	80	100	STW

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed course:	After successful completion of this course, student should be able to: <ul style="list-style-type: none"> Understand Environmental control systems- Building Acoustics, Noise control & Fire safety & hazard management

UNITS

UN	Name of the Unit	CSs	Questions
1	Building Acoustics. Sound- Basic theory	CP Block 01 CSs 01-15	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
2	Behaviour of sound in enclosed & open field	CP Block 02 CSs 16-30	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units
3	Noise control	CP Block 03 CSs 31-45	Students have to submit 'Term Work' for end exam on these units.

4	Fire safety & hazard management	CP Block 04 CSs 46-60	Students have to submit 'Term Work' for end exam on these units.
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DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1	Building Acoustics. Sound- Basic theory, Physics of sound, human perception, various units of measurement of sound.	CP Block 01
2	Behaviour of sound in enclosed & open field- Travel, reflection, refraction, reverberation, attenuation of sound. Design for good hearing conditions- Calculations for actual reverberation time, coefficients of absorption, Sabines theory, correction & acoustical Treatment for desired conditions. Construction details.	CP Block 02
3	Noise control- behaviour of sound for noise control, measure. & designing for correction. Construction details, codes of practice like NRC, etc.	CP Block 03
4	Fire safety & hazard management: Causes of occurrence spread of fire. Concept & understanding of Fire rating system for various materials & spaces. Warning systems, Fire extinguishers. Study of fire regulations, space planning for fire prevention & control. Fire escapes, Fire doors, fire staircase – lifts etc. Means of escape.	CP Block 034

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24064-TB1			
A24064-TB2			
Reference-Books			
A24064-RB1			
A24064-RB2			
A24064-RB3			
A24064-RB4			
A24064-RB5			
A24064-RB6			
CD / DVD			
A24064-CD1			
A24064-CD2			
Web Links			
A24064-WL1			
A24064-WL2			

A24065: BUILDING CONSTRUCTION VI

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
06	A24065	Building Construction - VI	4	56	4	60	20	80	100	SV

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed: A24025 Building Construction II	After successful completion of this course, student should be able to Understand construction, principles of construction Industrialized construction systems and building

UNITS

UN	Name of the Unit	CSs	Questions
1	Construction systems used for Industrial and large span buildings, high rise buildings	CP Block 01 CSs 01-15	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
2	Modular co-ordination, Modular construction.	CP Block 02 CSs 16-30	Students have to submit 'Term Work' for end exam on these units.
3	Study of traditional & vernacular techniques in construction & Appropriate technology	CP Block 03 CSs 31-45	Students have to submit 'Term Work' for end exam on these units.
4	Co-ordination in construction activities & failures in performance	CP Block 04 CSs 46-60	Students have to submit 'Term Work' for end exam on these units.

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1	Construction systems used for Industrial and large span buildings, high rise buildings in Concrete & steel, Pre-stressed structures.	CP Block 01
2	Modular co-ordination, Modular construction, Pre fabricated elements for structures, specialised plant & machinery used for on site installation, sequence of operations in construction	CP Block 02
3	Study of traditional & vernacular systems and materials used in construction. Appropriate technology & Modern non conventional techniques developed by various research institutes in response to the local/regional conditions	CP Block 03
4	Issues of clear coordination in construction to relate between the design and construction, causes for failures in performance. Case studies to illustrate coordination and cases of failure.	CP Block 04

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24065-TB1			
A24065-TB2			
Reference-Books			
A24065-RB1	Elements of structure by Morgan		
A24065-RB2	Structure in Architecture by Salvadori		
A24065-RB3	Building construction by Mckay W. B., Vol. 1 to 4		
A24065-RB4	Construction of Building by Barry, Vol. I to V		
A24065-RB5	Construction Technology by Chudley R. Vol. I to IV		
A24065-RB6	Building Construction Illustrated – Ching Francis D.K.		
A24065-RB7	Elementary Building Construction by Michell		
A24065-RB8	Engineering Material – Chaudhary		
A24065-RB9	Building Construction Materials – M. V. Naik		
A24065-RB10	Civil Engineer's Hand Book – Khanna		
A24065-RB11	Vastu Rachana – Shri Sane		

A24065-RB12	National Building code and ISI specifications		
CD / DVD			
A24065-CD1			
A24065-CD2			
Web Links			
A24065-WL1			
A24065-WL2			

A24066: ARCHITECTURAL DESIGN VI

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
06	A24066	Architectural Design - VI	8	112	8	240	40	160	200	SV

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed: A24026 Architectural Design - II	After successful completion of this course, student should be able Design of multi functional public buildings that house supporting facilities for a community

UNITS

UN	Name of the Unit	CSs	Questions
1 To 4	Issues of Identity, Scale, Public spaces, Context, Grouping of buildings, Infrastructure for community formation etc.	CP Block 01 to 04 CSs 01-60	Students are expected to complete sufficient number of projects related to this course, with regular critical remarks and assessment from the counselor and peer students, during the semester. External and internal experts will jointly evaluate these projects for 100 marks with viva after presentation by the student for about 5-7 minutes.
5 to 8	Urban neighbourhoods, traditional and present day composition, structure, density, land use coverage, building controls, urban infrastructure and services.	CP Block 05 to 08 CSs 61-120	

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1 to	Issues of Identity, Scale, Public spaces, Context, Grouping of buildings, Infrastructure for community formation etc.	CP Block

4		01 to 4
5 to 8	Urban neighborhoods, traditional and present day composition, structure, density, land use coverage, building controls, urban infrastructure and services.	CP Book 05 to 8

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24066-TB1			
A24066-TB2			
Reference-Books			
A24066-RB1	Design Methods by Jones C. J.	(1992)	John Willey and Sons, Inc. ISBN- 0-471- 28496-3
A24066-RB2	How Designers think: the design process demystified by Lawson B.	2005	Architectural Press, Oxford ISBN 13-978-0-7506- 6077-8
A24066-RB3	Elements of Design: Rowena Reed Kostellow and the Structure of Visual Relationships Hannah G.G	2002	Princeton Architectural Press, NY, USA ISBN 1-56898-329-8
A24066-RB4	Thinking Design By Prof S Balram		
A24066-RB5	Visual Thinking by Frank M. Young		
A24066-RB6	The Art of Looking Sideways		
A24066-RB7	Concepts and Responses		
CD / DVD			
A24066-CD1			
A24066-CD2			
Web Links			
A24066-WL1			
A24066-WL2			

SEMESTER 07

A24071: SOCIOLOGY

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
07	A24071	Sociology	2	20	2	60	10	40	50	TH

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed course: A24032 Culture and Built form III	After successful completion of this course, student should be able to Understand Relationship between sociology, social systems and built environment.

UNITS

UN	Name of the Unit	CSs	Questions
1-1	Introduction to Sociology	CP Block 01	Students have to answer '1 of 1' SAQ in CA and '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
1-2	Social process	CSs 01-10	
2-1	Urbanization pattern and social	CP Block 02	Students have to answer '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
2-2	Social policy and social planning	CSs 11-20	

DETAILED SYLLABUS

UN	Detailed Syllabus of the Unit	CP Block
1-1	Introduction to Sociology, an overview of Urban Sociology. Social institutions - Introduction to the concept of family, community, association, religion, etc. Study of culture, Culture and Society – interrelationships. Social interactions, groups, communication, leadership.	CP Block 01
1-2	Social process - Co -operation, Conflict, Competition, Accommodation, Assimilation, progress and evolution. Socialization, Social change, Population, demographic transition - planned and unplanned Urbanization Process, World urbanization, Indian and different states	
2-1	Urbanization pattern and social change due to urbanization, Growth of slums and squatter settlements, migration pattern, population structure in slums, Concept of personal Integration, Consolidation index to compare slums at varying age, effect of industrialization and technological advancement on Society. Urban living - Crime and city size. Urban revitalization.	CP Block 02
2-2	Social policy and social planning community planning, urban crime, Effect of living in high rise building on children - Meaning of urban space. Effect on social planning on spatial planning.	

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24071-TB1			
A24071-TB2			
Reference-Books			
A24071-RB1			
A24071-RB2			
CD / DVD			
A24071-CD1			
A24071-CD2			
Web Links			
A24071-WL1			
A24071-WL2			
A24071-WL3			
A24071-WL4			
A24071-WL5			

A24072: HUMAN SETTLEMENTS

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
07	A24072	Human Settlements	2	20	2	60	10	40	50	TH

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed course: A24032 Culture and Built form III	After successful completion of this course, student should be able to that: <ul style="list-style-type: none"> Understand Development of cities and settlements

UNITS

UN	Name of the Unit	CSs	Questions
1	Evolution of settlements	CP Block 01 CSs 01-10	Students have to answer '1 of 1' SAQ in CA and '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
2	Comparison with European and Eastern cultures	CP Block 02 CSs 11-20	Students have to answer '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units

DETAILED SYLLABUS

UN	Detailed Syllabus of the Unit	CP Block
1	Evolution of settlements over time. Components and structures of settlements. Settlements in India. Ancient, medieval, colonial and contemporary periods	CP Block 01
2	Comparison with European and Eastern cultures. Comparison between Architecture and the City. Historic cities and formal composition in designed cities. Urban laws that govern making of the cities. Legibility, imagibility, structure, identity, meaning and quality of life	CP Block 02

in various urban forms.	
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LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24072-TB1			
A24072-TB2			
Reference-Books			
A24072-RB1	Pt. Jawaharlal Nehru, "Glimpses of World History"		
A24072-RB2	Geoffrey and Susan Jellicoe, "Landscape of Man"		
A24072-RB3	Sir Bannister Fletcher, "The History of Architecture"		
A24072-RB4	Spiro Kostof "History of Architecture"		
A24072-RB5	Markus Hattsein Peter Dellus ed. "Islamic Art and Architecture"		
CD / DVD			
A24072-CD1			
A24072-CD2			
Web Links			
A24072-WL1			
A24072-WL2			
A24072-WL3			
A24072-WL4			
A24072-WL5			

A24073: PROFESSIONAL PRACTICE - I

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
07	A24073	Professional Practice - I	2	20	2	60	10	40	50	TH

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed course:	After successful completion of this course, student should be able to Understand nature of Professional practice and code of conduct.

UNITS

UN	Name of the Unit	CSs	Questions
1-1	Architectural profession as a vocation.	CP Block 01	Students have to answer '1 of 1' SAQ in CA and '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
1-2	Social obligations of an Architect as professional	CSs 01-10	
2-1	Comparative study of different professions.	CP Block 02	Students have to answer '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
2-2	Code of conduct & ethics. Professional role:	CSs 11-20	

DETAILED SYLLABUS

UN	Detailed Syllabus of the Unit	CP Block
1-1	Architectural profession as a vocation. Comparison of architectural & trade union	CP

1-2	activities. History of architectural profession, its future, degeneration and up gradation. Social obligations of an Architect as professional, Clientele, Aspects and roles of architect and client and their relationship within the profession.	Book 01
2-1	Comparative study of different professions and also different roles and avenues within the profession of architecture. Future of professional directions.	CP Book 02
2-2	Code of conduct & ethics. Professional role: responsibilities and liabilities of architects and their indemnity (security against damages).	

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24073-TB1			
A24073-TB2			
Reference-Books			
A24073-RB1	Professional Practice by Roshan Namawati		
A24073-RB2	Professional Practice by Madahv Deobhakta		
CD / DVD			
A24073-CD1			
A24073-CD2			
Web Links			
A24073-WL1			
A24073-WL2			
A24073-WL3			
A24073-WL4			
A24073-WL5			

A24074: INTERIOR ARCHITECTURE

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
07	A24074	Interior Architecture	2	28	2	30	10	40	50	STW

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed: A24035 Building Construction - III A24036 Architectural Design III	After successful completion of this course, student should be able to: <ul style="list-style-type: none"> Understand principles of designing interior spaces and professional execution of the same.

UNITS

UN	Name of the Unit	CSs	Questions
1-1	Characteristics of Indoor space	CP Block 01 CSs 01-15	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
1-2	Principles of interior design		
2-1	Furniture design	CP Block 02 CSs 16-30	Students have to submit 'Term Work' for end exam on these units.
2-2	Structural treatments.		

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1-1	Characteristics of Indoor space Effect of enclosures on space perception – size, volume, proportion and shape of enclosures – ideal space proportions use of scales for space representation – psychological effects of space – modulation of space – design elements, criteria for different situations.	CP Block 01
1-2	Principles of interior design Back ground for applied decorations – color, texture, plane and fixtures in relation to back ground – principle of composition of visual elements modulation of interior space with art objects and modulation thermal and sonic	

	environment of space through design – space modulation through artificial and natural lighting – emphasizing of focal points – unity in interior design.	
2-1	Furniture design: Role of furniture–evolution of furniture style–Ergonomic factors of furniture design–materials used–functional classification–barrier free design–matching of furniture to the decorative style–fitted furniture–it’s characteristic and applications.	CP Book 02
2-2	Structural treatments. Decorative materials for roofing–walls and floors–sources and collecting products information–decorative finishes and fabrics–methods of application–elements and applications of interior landscape–special structural form to emphasis space.	

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24074-TB1			
Reference-Books			
A24074-RB1			
A24074-RB2			
A24074-RB3			
A24074-RB4			
A24074-RB5			
A24074-RB6			
A24074-RB7			
A24074-RB8			
CD / DVD			
A24074-CD1			
A24074-CD2			
Web Links			
A24074-WL1			

A24075: LANDSCAPE DESIGN

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
07	A24075	Landscape Design	2	28	2	30	10	40	50	STW

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed: A24035 Building Construction - III A24036 Architectural Design III	After successful completion of this course, student should be able to: <ul style="list-style-type: none"> Understand principles of designing landscapes and professional execution of the same.

UNITS

UN	Name of the Unit	CSs	Questions
1-1	Landscape architecture through history & Landscape Design process	CP Block 01 CSs 01-15	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
1-2	Element of Landscape & Energy saving strategies.		
2-1	Plant specification maintenance, and design.	CP Block 02 CSs 16-30	Students have to submit 'Term Work' for end exam on these units.
2-2	Landscape construction.		

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1-1	Landscape architecture through history, Japanese gardens, Moghul garden, French gardens, Renaissance gardens, Parks, Rock gardens, water gardens and other contemporary garden architecture, and treatment of public Landscapes. Site documentation and analysis, Design process in landscape architecture. Landscape detailing, specifications, execution of Landscape design. Drawings associated with each stage.	CP Block 01
1-2	Element of Landscape. Natural elements like water, soil, rocks, plants, trees. Artificial	

	elements like stones, living, flooring, vertical enclosing surfaces and canopies. Major and minor elements like topography, micro and macroclimate. Design of Topography and grading. Design of paths, routes and linkage. Color in Landscape. Use of materials and style Energy saving Landscapes through passive climatic design strategies.	
2-1	Plant specification and maintenance, design of lawn, hedges and creepers. Specialty elements in landscapes, Landscape hardware and furniture. Sculpture and its role in landscapes. Design, development and details of landscapes for various functions like residential, industrial, commercial, mercantile, assembly and urban open spaces. Treatment of landscapes in rural context	CP Book 02
2-2	Landscape construction: pools, fountains, terrace gardens and rock gardens. Landscape services. Introduction to ecological landscapes. Interior landscape architecture: Glass and glazing, its effects, plants in interiors. Interior courtyards and- atriums. Indoor planting design considerations: criteria for selection of plants, texture, color, habits and height. Interior Landscape services. Atrium lighting, manual watering and sub irrigation.	

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24075-TB1			
Reference-Books			
A24075-RB1			
A24075-RB2			
A24075-RB3			
A24075-RB4			
A24075-RB5			
A24075-RB6			
A24075-RB7			
A24075-RB8			
CD / DVD			
A24075-CD1			
A24075-CD2			
Web Links			
A24075-WL1			

A24076: SPECIAL STRUCTURES

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
07	A24076	Special Structures	2	28	2	30	10	40	50	STW

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed: A24035 Building Construction - III A24036 Architectural Design III	After successful completion of this course, student should be able to: <ul style="list-style-type: none"> Understand Special structural forms resulting from special technologies.

UNITS

UN	Name of the Unit	CSs	Questions
1-1	Geometry of forms. Shell structures and their structural behavior	CP Block 01	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
1-2	Folded plate structures. Design of simple V type of folded plates.	CSs 01-15	
2-1	Membrane structures. Form finding methods.	CP Block 02	Students have to submit 'Term Work' for end exam on these units.
2-2	Planar grid and curved grid structures. Development of simple forms and scale models.	CSs 16-30	

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1-1	Geometry of forms. Shell structures and their structural behaviour.	CP Block 01
1-2	Folded plate structures. Design of simple V type of folded plates.	
2-1	Membrane structures. Form finding methods.	CP Block 02
2-2	Planar grid and curved grid structures. Development of simple forms and scale models.	

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24076-TB1			
Reference-Books			
A24076-RB1			
A24076-RB2			
A24076-RB3			
A24076-RB4			
A24076-RB5			
A24076-RB6			
A24076-RB7			
A24076-RB8			
CD / DVD			
A24076-CD1			
A24076-CD2			
Web Links			
A24076-WL1			

A24077: SEMINAR – THESIS TOPIC

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
07	A24077	Seminar – Thesis Topic	2	28	2	30	10	40	50	STW

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed: A24036 Architectural Design III	After successful completion of this course, student should be able to: <ul style="list-style-type: none"> Study and presentation of objectives and justification there of selected thesis topics

UNITS

UN	Name of the Unit	CSs	Questions
1-1	Brief synopsis of three topics per student	CP Block 01 CSs 01-15	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
1-2	Selection, finalization of topic based on initial study		
2-1	Data collection.	CP Block 02 CSs 16-30	Students have to submit 'Term Work' for end exam on these units.
2-2	Literature studies and site selection criteria		

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1-1	Brief synopsis of three topics per student	CP Block 01
1-2	Selection, finalization of topic based on initial study	
2-1	Data collection.	CP Block 02
2-2	Literature studies and site selection criteria	

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24077-TB1			
Reference-Books			
A24077-RB1			
A24077-RB2			
A24077-RB3			
A24077-RB4			
A24077-RB5			
A24077-RB6			
A24077-RB7			
A24077-RB8			
CD / DVD			
A24077-CD1			
A24077-CD2			
Web Links			
A24077-WL1			

A24078: ELECTIVES3–A SALES AND MARKETING SKILLS

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
07	A24078	Elective 3 –A Sales and Marketing Skills	2	28	2	30	10	40	50	STW

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed:	After successful completion of this course, student should be able to: <ul style="list-style-type: none"> An overview of marketing, distribution and promotion of building materials and equipments in construction industry.

UNITS

UN	Name of the Unit	CSs	Questions
1-1	Building materials market – demand and supply systems.	CP Block 01 CSs 01-15	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
1-2	Bulk and retail marketing		
2-1	Building materials exhibition, promotion and survey	CP Block 02 CSs 16-30	Students have to submit 'Term Work' for end exam on these units.
2-2	R & D in building materials and standards		

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1-1	Building materials market – demand and supply systems.	CP Block 01
1-2	Bulk and retail marketing	

2-1	Building materials exhibition, promotion and survey	CP Bock 02
2-2	R & D in building materials and standards	

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24078-TB1			
Reference-Books			
A24078-RB1			
A24078-RB2			
A24078-RB3			
A24078-RB4			
A24078-RB5			
A24078-RB6			
A24078-RB7			
A24078-RB8			
CD / DVD			
A24078-CD1			
A24078-CD2			
Web Links			
A24078-WL1			

A25078: ELECTIVES 3 –B FILM MAKING AND ARCHITECTURE

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type	
07	A25078	Elective 3 –B Architecture	Film Making and	2	28	2	30	10	40	50	STW

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed:	After successful completion of this course, student should be able to: <ul style="list-style-type: none"> Understand Importance of film making and audio visual narration of architecture.

UNITS

UN	Name of the Unit	CSs	Questions
1-1	Basic concepts and history of film making	CP Block 01 CSs 01-15	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
1-2	Script writing, story board		
2-1	Shooting and editing	CP Block 02 CSs 16-30	Students have to submit 'Term Work' for end exam on these units.
2-2	Scope of visual narration of architectural history and design processes		

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1-1	Basic concepts and history of film making	CP Block 01
1-2	Script writing, story board	
2-1	Shooting and editing	CP Block
2-2	Scope of visual narration of architectural history and design processes	

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A25078-TB1			
Reference-Books			
A25078-RB1			
A25078-RB2			
A25078-RB3			
A25078-RB4			
A25078-RB5			
A25078-RB6			
A25078-RB7			
A25078-RB8			
CD / DVD			
A25078-CD1			
A25078-CD2			
Web Links			
A25078-WL1			

A24079: ARCHITECTURAL DESIGN VII

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
07	A24079	Architectural Design - VII	8	112	8	240	40	160	200	SV

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed: A24036 Architectural Design -III	After successful completion of this course, student should be able to Design of Institutional and industrial buildings housing multiple functions and accommodating large number of persons and special activities

UNITS

UN	Name of the Unit	CSs	Questions
1 To 4	Large complexes on large parcels of land, Development impact on existing landscape and urban environment. Sustainable developments, Case studies, formation of concept, design and planning, presentation drawings on different media	CP Block 01 to 04 CSs 01-60	Students are expected to complete sufficient number of projects related to this course, with regular critical remarks and assessment from the counselor and peer students, during the semester. External and internal experts will jointly evaluate these projects for 100 marks with viva after presentation by the student for about 5-7 minutes.
5 to 8	Building economy and viability studies and report making. Preparation of quick 3D studies, landscape design and drawings, level manipulation, final design	CP Block 05 to 08 CSs 61-120	

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1	Large complexes on large parcels of land, Development impact on existing landscape and	CP

to 4	urban environment. Sustainable developments, Case studies, formation of concept, design and planning, presentation drawings on different media	Book 01 to 4
5 to 8	Building economy and viability studies and report making. Preparation of quick 3D studies, landscape design and drawings, level manipulation, final design	CP Book 05 to 8

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24066-TB1			
A24066-TB2			
Reference-Books			
A24066-RB1	Design Methods by Jones C. J.	(1992)	John Willey and Sons, Inc. ISBN- 0-471- 28496-3
A24066-RB2	How Designers think: the design process demystified by Lawson B.	2005	Architectural Press, Oxford ISBN 13-978-0-7506- 6077-8
A24066-RB3	Elements of Design: Rowena Reed Kostellow and the Structure of Visual Relationships Hannah G.G	2002	Princeton Architectural Press, NY, USA ISBN 1-56898-329-8
A24066-RB4	Thinking Design By Prof S Balram		
A24066-RB5	Visual Thinking by Frank M. Young		
A24066-RB6	The Art of Looking Sideways		
A24066-RB7	Concepts and Responses		
CD / DVD			
A24066-CD1			
A24066-CD2			
Web Links			
A24066-WL1			
A24066-WL2			

SEMESTER 08

A24081: PROFESSIONAL PRACTICE - II

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
08	A24081	Professional Practice - II	2	20	2	60	10	40	50	TH

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed course:	After successful completion of this course, student should be able to Study Codes, laws, ethics and practice.

UNITS

UN	Name of the Unit	CSs	Questions
1-1	Office Organization & Management.	CP Block 01	Students have to answer '1 of 1' SAQ in CA and '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
1-2	Expense structure in Architectural Practice.	CSs 01-10	
2-1	Development Controls.	CP Block 02	Students have to answer '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
2-2	Professional Associations & Responsibilities.	CSs 11-20	

DETAILED SYLLABUS

UN	Detailed Syllabus of the Unit	CP Block
1-1	Office Organization & Management Types of offices and their structure Nature of emerging practices . Roles of various personnel at different levels Principals/partners, Design staff, Supporting staff, Managerial staff, Employer-employee relationship, Training responsibility.	CP Block 01
1-2	Expense structure, Salaries, Overheads, Perks to employees & principals. Tax Planning for Architects.	
2-1	Development Controls: Building regulations, their purpose, formation with base, generalization, violation (interpretations)	CP Block 02
2-2	Professional Associations Types, Purpose, Role, Responsibilities -IIA & COA, Formation, Controls, Activities, Advantages & Lacunas. Professional ethics, Fee Structure, Architectural Competitions Architectural Education	

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24081-TB1			
A24081-TB2			
Reference-Books			
A24081-RB1	Professional Practice by Roshan Namawati		
A24081-RB2	Professional Practice by Madahv Deobhakta		
CD / DVD			
A24081-CD1			
A24081-CD2			
Web Links			
A24081-WL1			
A24081-WL2			
A24081-WL3			
A24081-WL4			
A24081-WL5			

A24082: SPECIFICATIONS AND CONTROLS

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
08	A24082	Specifications and Controls	2	20	2	60	10	40	50	TH

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed course:	After successful completion of this course, student should be able to Understand the nature of building specifications and contracts and its relevance to architectural practice.

UNITS

UN	Name of the Unit	CSs	Questions
1-1	Nature of specifications types of specifications	CP Block 01	Students have to answer '1 of 1' SAQ in CA and '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
1-2	Nature of building contracts-Tenders.	CSs 01-10	
2-1	Contracts, Conditions of contracts; obligations and responsibilities.	CP Block 02	Students have to answer '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
2-2	Management of the contracts.	CSs 11-20	

DETAILED SYLLABUS

UN	Detailed Syllabus of the Unit	CP Block
1-1	Nature of specifications types of specifications -process oriented and performance specification. Constituents of specification -material qualities and proportions, labour -	CP Block

	quality of inputs, tests and acceptance criteria. mode of measurements; methods of structuring and writing specification, role of specifications in a total set of contract. Economic and quality implications of specifications. Trade off between ideal and realistic specifications..	01
1-2	Nature of building contracts Tenders -calling, scrutiny and recommendations open and selective tender systems; two stage tender scrutiny process, Pretender qualifications and registrations of contractors.	
2-1	Contracts (and sub contracts) between architect & client, between client and contractor (drafted by architect), Conditions of contracts; obligations and responsibilities of clients, contractors and architects, Deposits, labor laws and obligations; disputes and settlement of disputes	CP Bock 02
2-2	Management of the contracts. Roles of Client, Consultant (coordinator of) Contractor/sub-contractor and their coordination by architect. Site supervision Role and responsibilities of Architect Contractor	

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24082-TB1			
A24082-TB2			
Reference-Books			
A24082-RB1			
A24082-RB2			
CD / DVD			
A24082-CD1			
A24082-CD2			
Web Links			
A24082-WL1			
A24082-WL2			
A24082-WL3			
A24082-WL4			
A24082-WL5			

A24083: ELECTIVES 4–A GEOGRAPHIC INFORMATION SYSTEMS

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
08	A24083	Elective 4–A Geographic Information Systems (GIS)	2	28	2	30	10	40	50	STW

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed:	After successful completion of this course, student should be able to: <ul style="list-style-type: none"> Understand use of computers and software for geographic location and mapping of environment.

UNITS

UN	Name of the Unit	CSs	Questions
1-1	Introduction to Geographic Information sciences.	CP Block 01 CSs 01-15	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
1-2	Data models and Data structure.		
2-1	Introduction to data input, data capture methods.	CP Block 02 CSs 16-30	Students have to submit 'Term Work' for end exam on these units.
2-2	Exercises in database		

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1-1	Geographic Information sciences: History, Domains for GIS, Definitions of GIS, Components of a GIS, Comparisons of various software, Hardware requirements, Digital cartography and conventional CAD.	CP Block 01
1-2	Data models and Data structure, Conceptual models of real world, entities or fields,	

	Vector data models, Tessellation of continuous fields, raster data models, Use of models- Cadastre, Utility networks, land cover, soil naps, Introduction to data structure, Vector data structure and Raster data structures. Hierarchical database Structure, Network data structure, Relational data structure, object oriented database structure.	
2-1	Introduction to data input, data capture methods, digitization, rasterisation, attribute or feature code inputting, verification and editing methods. Creation of continuous surfaces and simple analysis of Environmental problems. Mountainous environment land-use studies. Introduction to Remote sensing and Environmental mapping. Growth and change in land-use. Comparison of land uses of different periods.	CP Bock 02
2-2	Exercises in database query, distance and context operators, Cost distance and least cost pathways, Boolean operations on maps, remote sensed data explorations, supervised and unsupervised classification and principal component analysis.	

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24083-TB1			
Reference-Books			
A24083-RB1			
A24083-RB2			
A24083-RB3			
A24083-RB4			
A24083-RB5			
A24083-RB6			
A24083-RB7			
A24083-RB8			
CD / DVD			
A24083-CD1			
A24083-CD2			
Web Links			
A24083-WL1			

A25083: ELECTIVES 4 –B ENVIRONMENTAL DESIGN

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
08	A25083	Elective 4 –B Environmental Design	2	28	2	30	10	40	50	STW

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed:	After successful completion of this course, student should be able to: <ul style="list-style-type: none"> Understand ecology and environment and the impact of human interventions through design

UNITS

UN	Name of the Unit	CSs	Questions
1-1	Site Analysis	CP Block 01 CSs 01-15	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
1-2	Effects of Human activities		
2-1	Design factors	CP Block 02 CSs 16-30	Students have to submit 'Term Work' for end exam on these units.
2-2	Design techniques uses in database		

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1-1	Site Analysis: Need for site analysis, Inventory of site factors and their mapping-Natural factors, Cultural factors and _aesthetic. factors- Topographic surveys, Slope analysis- Drainage pattern, vegetation, climatic factors, linkages, density and zoning, spatial	CP Block 01

	pattern- views, Types site planning based on scale and land uses.	
1-2	Effects of Human activities: Nature of pollutants, Air pollution, concentration of pollutants in space and time, precipitation and hydrology of cities, Noise pollution- causes and effects, Visual intrusion, Solid and liquid waste - Engineering construction, control and management.	
2-1	Design factors: Introduction to landuses, circulation systems, Vehicular circulation systems, organisation of vehicular and I pedestrian circulation, Steps and ramps, parking- Visual design factors-sequence, Repetition, Rhythm and balance, Hierarchy, Texture and color, Positive and negative space- Enclosing space wall heights- Internal and I Exterior order.	CP Book 02
2-2	Design techniques: Grading and earth work calculation, site drainage, surface and sub surface, drainage, Horizontal and vertical alignments of curves, Hard and soft paving materials, evolution built forms - case studies.	

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A25083-TB1			
Reference-Books			
A25083-RB1			
A25083-RB2			
A25083-RB3			
A25083-RB4			
A25083-RB5			
A25083-RB6			
A25083-RB7			
A25083-RB8			
CD / DVD			
A25083-CD1			
A25083-CD2			
Web Links			
A25083-WL1			

A24084: DISSERTATION – THESIS TOPIC SPECIAL

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
08	A24084	Dissertation – Thesis Topic Special	2	28	2	30	10	40	50	STW

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed: A24036 Architectural Design III	After successful completion of this course, student should be able to: <ul style="list-style-type: none"> Pursue an idea of research with depth of inquiry, criticality and logic and carry out an in-depth investigation of an area of architecture that he/she is interested in.

UNITS

UN	Name of the Unit	CSs	Questions
1	The study may involve within the chosen area. An in-depth investigation into any aspect of the chosen area Analysis of data and inferences to establish underlying principles Evaluation of existing theory in new contexts.	CP Block 01 CSs 01-15	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
2	Establishment of a hypothesis and its substantiation The emphasis will be on the Indian context. The study would be presented as a written document with supporting illustrations. It be periodically reviewed and examined by an external examiner.	CP Block 02 CSs 16-30	Students have to submit 'Term Work' for end exam on these units.

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1	The study may involve within the chosen area An in-depth investigation into any aspect of the chosen area Analysis of data and inferences to establish underlying principles Evaluation of existing theory in new contexts.	CP Block 01

2	Establishment of a hypothesis and its substantiation The emphasis will be on the Indian context. The study would be presented as a written document with supporting illustrations. It be periodically reviewed and examined by an external examiner.	CP Bock 02

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A25084-TB1			
Reference-Books			
A25084-RB1			
A25084-RB2			
A25084-RB3			
A25084-RB4			
A25084-RB5			
A25084-RB6			
A25084-RB7			
A25084-RB8			
CD / DVD			
A25084-CD1			
A25084-CD2			
Web Links			
A25084-WL1			

A24085: ARCHITECTURAL THESIS

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
08	A24085	Architectural Thesis	16	124	16	480	80	320	400	SV

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have submitted: A24084 Dissertation – Thesis Topic Special	After successful completion of this course, student should be able to Pursue an idea of research with depth of inquiry, criticality and logic and carry out an in-depth investigation of an area of architecture that he/she is interested in.

UNITS

UN	Name of the Unit	CSs	Questions
1 To 16	Culmination of the Undergraduate program in architecture.	CP Block 01 to 16 CSs 01-240	Students are expected to complete sufficient number of projects related to this course, with regular critical remarks and assessment from the counselor and peer students, during the semester. External and internal experts will jointly evaluate these projects for 100 marks with viva after presentation by the student for about 5-7 minutes.

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1 to 16	<p>This project is the culmination of the Undergraduate program in architecture. In thesis a student is expected to undertake an in-depth investigation of an area of architecture that he/she is interested in. These will be done with the help of a faculty guide. Two options offered in Semester 7 under the course SA 7.8 – Seminar – Thesis Topics will be considered and one will be taken up as final design thesis project. The chosen project should demonstrate a student’s ability to work independently, decide what is important to him/her and schedule oneself to adhere to a time frame.</p> <p>Projects will be chosen within the following parameters: Within the urban context and have the potential for a valid relationship between Architecture and the city/environment, have the potential to probe issues of cultural continuity and the language of the present in the Indian context, reinterpreting tradition anew into contemporary statement. Be of approx. 3,000 to 5,000 sq. Mts. of built up area (not too large in scale because the project must be developed to design details and not too small to lack potential of requisite design complexities). If the project is larger, it should be possible to develop a part of it after stage 3 to required detail in consultation with faculty. Be real, but not necessarily a live project, and must have the potential to demonstrate ones strengths in terms of scope – capacity of the project.</p>	CP Block 01 to 16

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A25085-TB1			
A25085-TB2			
Reference-Books			
A25085-RB1	Design Methods by Jones C. J.	(1992)	John Willey and Sons, Inc. ISBN- 0-471- 28496-3
A25085-RB2	How Designers think: the design process demystified by Lawson B.	2005	Architectural Press, Oxford ISBN 13-978-0-7506- 6077-8
A25085-RB3	Elements of Design: Rowena Reed Kostellow and the Structure of Visual Relationships Hannah G.G	2002	Princeton Architectural Press, NY, USA ISBN 1-56898-329-8
A25085-RB4	Thinking Design By Prof S Balram		
A25085-RB5	Visual Thinking by Frank M. Young		
A25085-RB6	The Art of Looking Sideways		
A25085-RB7	Concepts and Responses		
CD / DVD			
A25085-CD1			
A25085-CD2			
Web Links			
A25085-WL1			
A25085-WL2			

SEMESTER 09

A24091: PRESENTATION & APPROVAL DRAWINGS - I

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
09	A24091	Presentation & Approval Drawings - I	4				20	80	100	SV

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed: A24046 Architectural Design -IV	The student shall work at an Architect's office (Internship) as per the guidelines of CoA, and approved by the Study Center Head, for duration of two semesters. After successful completion of this course, student should be able to Understand on-going construction work on sites, supervisory controls of an Architect in a Project.

UNITS

UN	Name of the Unit	CSs	Questions
1 To 4	Making presentation drawings for client presentations, and municipal approval drawings	CP Block 01 to 04	Students are expected to work at an Architect's office (Internship) as per the guidelines of CoA, and approved by the Study Center Head, for duration of two semesters and complete sufficient number of projects related to this course, with regular critical remarks and assessment from the counselor/ supervising architect and peer students, during the semester. External and internal experts will jointly evaluate these projects for 100 marks with viva after presentation by the student for about 5-7 minutes.

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1 to 4	Making presentation drawings for client presentations, and municipal approval drawings of projects undertaken in the office- of at least one project each, duly attested by the supervising architect.	CP Block 01 to 4

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24091-TB1			
A24091-TB2			
Reference-Books			
A24091-RB1	Design Methods by Jones C. J.	(1992)	John Willey and Sons, Inc. ISBN- 0-471- 28496-3
A24091-RB2	How Designers think: the design process demystified by Lawson B.	2005	Architectural Press, Oxford ISBN 13-978-0-7506- 6077-8
A24091-RB3	Elements of Design: Rowena Reed Kostellow	2002	Princeton Architectural Press,

	and the Structure of Visual Relationships Hannah G.G		NY, USA ISBN 1-56898-329-8
A24091-RB4	Thinking Design By Prof S Balram		
A24091-RB5	Visual Thinking by Frank M. Young		
A24091-RB6	The Art of Looking Sideways		
A24091-RB7	Concepts and Responses		
CD / DVD			
A24091-CD1			
A24091-CD2			
Web Links			
A24091-WL1			
A24091-WL2			

A24092: SITE VISITS & STUDY - I

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
09	A24092	Site Visits & Study - I	4				20	80	100	SV

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed: A24046 Architectural Design -IV	The student shall work at an Architect's office (Internship) as per the guidelines of CoA, and approved by the Study Center Head, for duration of two semesters. After successful completion of this course, student should be able to Understand on-going construction work on sites, supervisory controls of an Architect in a Project.

UNITS

UN	Name of the Unit	CSs	Questions
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1 To 4	Visiting sites of ongoing projects undertaken by the office, photo documenting	CP Block 01 to 04	Students are expected to work at an Architect's office (Internship) as per the guidelines of CoA, and approved by the Study Center Head, for duration of two semesters and complete sufficient number of projects related to this course, with regular critical remarks and assessment from the counselor/supervising architect and peer students, during the semester. External and internal experts will jointly evaluate these projects for 100 marks with viva after presentation by the student for about 5-7 minutes.
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DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1 to 4	Visiting sites of ongoing projects undertaken by the office, photo documenting progress with appropriate descriptions, as per the directions of the supervising architect. Identifying various stages of work.	CP Block 01 to 04

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24092-TB1			
A24092-TB2			
Reference-Books			
A24092-RB1	Design Methods by Jones C. J.	(1992)	John Willey and Sons, Inc. ISBN- 0-471- 28496-3
A24092-RB2	How Designers think: the design process demystified by Lawson B.	2005	Architectural Press, Oxford ISBN 13-978-0-7506- 6077-8
A24092-RB3	Elements of Design: Rowena Reed Kostellow and the Structure of Visual Relationships Hannah G.G	2002	Princeton Architectural Press, NY, USA ISBN 1-56898-329-8

A24092-RB4	Thinking Design By Prof S Balram		
A24092-RB5	Visual Thinking by Frank M. Young		
A24092-RB6	The Art of Looking Sideways		
A24092-RB7	Concepts and Responses		
CD / DVD			
A24092-CD1			
A24092-CD2			
Web Links			
A24092-WL1			
A24092-WL2			

A24093: INTERACTION WITH CONSULTANTS - I

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
09	A24093	Interaction with Consultants - I	2				10	40	50	SV

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed: A24046 Architectural Design -IV	The student shall work at an Architect's office (Internship) as per the guidelines of CoA, and approved by the Study Center Head, for duration of two semesters. After successful completion of this course, student should be able to Understand on-going construction work on sites, supervisory controls of an Architect in a Project.

UNITS

UN	Name of the Unit	CSs	Questions
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1 To 2	Discussions, getting inputs from the Consultants	CP Block 01 & 02	Students are expected to work at an Architect's office (Internship) as per the guidelines of CoA, and approved by the Study Center Head, for duration of two semesters and complete sufficient number of projects related to this course, with regular critical remarks and assessment from the counselor/ supervising architect and peer students, during the semester. External and internal experts will jointly evaluate these projects for 100 marks with viva after presentation by the student for about 5-7 minutes.
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DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1 to 2	Discussions, getting inputs from the Consultants on the ongoing projects undertaken by the office, documenting as per the directions of the supervising architect. Understanding the inputs to be given to the consultants and feedback from them.	CP Block 01 to 02

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24093-TB1			
A24093-TB2			
Reference-Books			
A24093-RB1	Design Methods by Jones C. J.	(1992)	John Willey and Sons, Inc. ISBN- 0-471- 28496-3
A24093-RB2	How Designers think: the design process demystified by Lawson B.	2005	Architectural Press, Oxford ISBN 13-978-0-7506- 6077-8
A24093-RB3	Elements of Design: Rowena Reed Kostellow and the Structure of Visual Relationships Hannah G.G	2002	Princeton Architectural Press, NY, USA ISBN 1-56898-329-8

A24093-RB4	Thinking Design By Prof S Balram		
A24093-RB5	Visual Thinking by Frank M. Young		
A24093-RB6	The Art of Looking Sideways		
A24093-RB7	Concepts and Responses		
CD / DVD			
A24093-CD1			
A24093-CD2			
Web Links			
A24093-WL1			
A24093-WL2			

A24094: FIELD OBSERVATIONS STUDY

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
09	A24094	Field Observations Study	4				20	80	100	SV

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed: A24046 Architectural Design -IV	The student shall work at an Architect's office (Internship) as per the guidelines of CoA, and approved by the Study Center Head, for duration of two semesters. After successful completion of this course, student should be able to Understand on-going construction work on sites, supervisory controls of an Architect in a Project.

UNITS

UN	Name of the Unit	CSs	Questions
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1 To 4	Visiting sites of ongoing projects undertaken by the office, photo documenting the progress of work. Understanding the impact of local conditions in the Design and method of execution of job / jobs.	CP Block 01 to 04	Students are expected to work at an Architect's office (Internship) as per the guidelines of CoA, and approved by the Study Center Head, for duration of two semesters and complete sufficient number of projects related to this course, with regular critical remarks and assessment from the counselor/ supervising architect and peer students, during the semester. External and internal experts will jointly evaluate these projects for 100 marks with viva after presentation by the student for about 5-7 minutes
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DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1 to 4	Visiting sites of ongoing projects undertaken by the office, photo documenting the progress of work. Understanding the impact of local conditions in the Design and method of execution of job / jobs.	CP Block 01 to 04

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24094-TB1			
A24094-TB2			
Reference-Books			
A24094-RB1	Design Methods by Jones C. J.	(1992)	John Willey and Sons, Inc. ISBN- 0-471- 28496-3
A24094-RB2	How Designers think: the design process demystified by Lawson B.	2005	Architectural Press, Oxford ISBN 13-978-0-7506- 6077-8
A24094-RB3	Elements of Design: Rowena Reed Kostellow and the Structure of Visual Relationships Hannah G.G	2002	Princeton Architectural Press, NY, USA ISBN 1-56898-329-8
A24094-RB4	Thinking Design By Prof S Balram		
A24094-RB5	Visual Thinking by Frank M. Young		

A24094-RB6	The Art of Looking Sideways		
A24094-RB7	Concepts and Responses		
CD / DVD			
A24094-CD1			
A24094-CD2			
Web Links			
A24094-WL1			
A24094-WL2			

A24095: OFFICE ADMINISTRATION & LOG BOOK - I

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
09	A24095	Office Administration & Log Book - I	2				10	40	50	SV

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed: A24046 Architectural Design -IV	The student shall work at an Architect's office (Internship) as per the guidelines of CoA, and approved by the Study Center Head, for duration of two semesters. After successful completion of this course, student should be able to Understand on-going construction work on sites, supervisory controls of an Architect in a Project

UNITS

UN	Name of the Unit	CSs	Questions
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1 To 2	Understanding the basic working system of an architect's office	CP Block 01 & 02	Students are expected to work at an Architect's office (Internship) as per the guidelines of CoA, and approved by the Study Center Head, for duration of two semesters and complete sufficient number of projects related to this course, with regular critical remarks and assessment from the counselor/ supervising architect and peer students, during the semester. External and internal experts will jointly evaluate these projects for 100 marks with viva after presentation by the student for about 5-7 minutes
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DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1 to 2	Understanding the basic working system of an architect's office, regularity in attendance, maintaining a daily log book of activities involved in the office, personnel & management and hierarchy of office staff.	CP Block 01 to 2

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24095-TB1			
A24095-TB2			
Reference-Books			
A24095-RB1	Design Methods by Jones C. J.	(1992)	John Willey and Sons, Inc. ISBN- 0-471- 28496-3
A24095-RB2	How Designers think: the design process demystified by Lawson B.	2005	Architectural Press, Oxford ISBN 13-978-0-7506- 6077-8
A24095-RB3	Elements of Design: Rowena Reed Kostellow and the Structure of Visual Relationships Hannah G.G	2002	Princeton Architectural Press, NY, USA ISBN 1-56898-329-8
A24095-RB4	Thinking Design By Prof S Balram		
A24095-RB5	Visual Thinking by Frank M. Young		

A24095-RB6	The Art of Looking Sideways		
A24095-RB7	Concepts and Responses		
CD / DVD			
A24095-CD1			
A24095-CD2			
Web Links			
A24095-WL1			
A24095-WL2			

A24096: WORKING DRAWINGS & DETAILS - I

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
09	A24096	Working Drawings & details - I	8				40	160	200	SV

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed: A24046 Architectural Design -IV	The student shall work at an Architect's office (Internship) as per the guidelines of CoA, and approved by the Study Center Head, for duration of two semesters. After successful completion of this course, student should be able to Prepare Working drawings & details of an Architectural project.

UNITS

UN	Name of the Unit	CSs	Questions
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1 To 8	Prepare Working drawings & details of an Architectural project, under the guidance of supervising architect.	CP Block 01 to 08	Students are expected to work at an Architect's office (Internship) as per the guidelines of CoA, and approved by the Study Center Head, for duration of two semesters and complete sufficient number of projects related to this course, with regular critical remarks and assessment from the counselor/ supervising architect and peer students, during the semester. External and internal experts will jointly evaluate these projects for 100 marks with viva after presentation by the student for about 5-7 minutes
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DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1 to 2	Prepare Working drawings & details of an Architectural project, under the guidance of supervising architect.	CP Block 01 to 8

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24096-TB1			
A24096-TB2			
Reference-Books			
A24096-RB1	Design Methods by Jones C. J.	(1992)	John Willey and Sons, Inc. ISBN- 0-471- 28496-3
A24096-RB2	How Designers think: the design process demystified by Lawson B.	2005	Architectural Press, Oxford ISBN 13-978-0-7506- 6077-8
A24096-RB3	Elements of Design: Rowena Reed Kostellow and the Structure of Visual Relationships Hannah G.G	2002	Princeton Architectural Press, NY, USA ISBN 1-56898-329-8
A24096-RB4	Thinking Design By Prof S Balram		
A24096-RB5	Visual Thinking by Frank M. Young		

A24096-RB6	The Art of Looking Sideways		
A24096-RB7	Concepts and Responses		
CD / DVD			
A24096-CD1			
A24096-CD2			
Web Links			
A24096-WL1			
A24096-WL2			

SEMESTER 10

A24101: PRESENTATION & APPROVAL DRAWINGS - II

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
10	A24101	Presentation & Approval Drawings - II	4				20	80	100	SV

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed: A24056 Architectural Design -V	The student shall work at an Architect's office (Internship) as per the guidelines of CoA, and approved by the Study Center Head, for duration of two semesters. After successful completion of this course, student should be able to Understand on-going construction work on sites, supervisory controls of an Architect in a Project

UNITS

UN	Name of the Unit	CSs	Questions
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1 To 4	Making presentation drawings for client presentations, and municipal approval drawings	CP Block 01 to 04	Students are expected to complete sufficient number of projects related to this course, with regular critical remarks and assessment from the counselor/ supervising architect and peer students, during the semester. External and internal experts will jointly evaluate these projects for 100 marks with viva after presentation by the student for about 5-7 minutes.
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DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1 to 4	Making presentation drawings for client presentations, and municipal approval drawings of projects undertaken in the office- of at least one project each, duly attested by the supervising architect.	CP Block 01 to 4

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24101-TB1			
A24101-TB2			
Reference-Books			
A24101-RB1	Design Methods by Jones C. J.	(1992)	John Willey and Sons, Inc. ISBN- 0-471- 28496-3
A24101-RB2	How Designers think: the design process demystified by Lawson B.	2005	Architectural Press, Oxford ISBN 13-978-0-7506- 6077-8
A24101-RB3	Elements of Design: Rowena Reed Kostellow and the Structure of Visual Relationships Hannah G.G	2002	Princeton Architectural Press, NY, USA ISBN 1-56898-329-8
A24101-RB4	Thinking Design By Prof S Balram		
A24101-RB5	Visual Thinking by Frank M. Young		
A24101-RB6	The Art of Looking Sideways		
A24101-RB7	Concepts and Responses		
CD / DVD			
A24101-CD1			

A24101-CD2			
Web Links			
A24101-WL1			
A24101-WL2			

A24102: SITE VISITS & STUDY - II

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
10	A24102	Site Visits & Study - II	4				20	80	100	SV

SUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed: A24056 Architectural Design -V	The student shall work at an Architect's office (Internship) as per the guidelines of CoA, and approved by the Study Center Head, for duration of two semesters. After successful completion of this course, student should be able to Understand on-going construction work on sites, supervisory controls of an Architect in a Project After successful completion of this course, student should be able to Understand on-going construction work on sites, supervisory controls of an Architect in a Project

UNITS

UN	Name of the Unit	CSs	Questions
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1 To 4	Visiting sites of ongoing projects undertaken by the office, photo documenting	CP Block 01 to 04	Students are expected to work at an Architect's office (Internship) as per the guidelines of CoA, and approved by the Study Center Head, for duration of two semesters and complete sufficient number of projects related to this course, with regular critical remarks and assessment from the counselor/ supervising architect and peer students, during the semester. External and internal experts will jointly evaluate these projects for 100 marks with viva after presentation by the student for about 5-7 minutes
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DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1 to 4	Visiting sites of ongoing projects undertaken by the office, photo documenting progress with appropriate descriptions, as per the directions of the supervising architect. Identifying various stages of work.	CP Block 01 to 04

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24102-TB1			
A24102-TB2			
Reference-Books			
A24102-RB1	Design Methods by Jones C. J.	(1992)	John Willey and Sons, Inc. ISBN- 0-471- 28496-3
A24102-RB2	How Designers think: the design process demystified by Lawson B.	2005	Architectural Press, Oxford ISBN 13-978-0-7506- 6077-8
A24102-RB3	Elements of Design: Rowena Reed Kostellow and the Structure of Visual Relationships Hannah G.G	2002	Princeton Architectural Press, NY, USA ISBN 1-56898-329-8

A24102-RB4	Thinking Design By Prof S Balram		
A24102-RB5	Visual Thinking by Frank M. Young		
A24102-RB6	The Art of Looking Sideways		
A24102-RB7	Concepts and Responses		
CD / DVD			
A24102-CD1			
A24102-CD2			
Web Links			
A24102-WL1			
A24102-WL2			

A24103: INTERACTION WITH CONSULTANTS - II

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
10	A24103	Interaction with Consultants - II	2				10	40	50	SV

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed: A24056 Architectural Design -V	The student shall work at an Architect's office (Internship) as per the guidelines of CoA, and approved by the Study Center Head, for duration of two semesters. After successful completion of this course, student should be able to Understand on-going construction work on sites, supervisory controls of an Architect in a Project After successful completion of this course, student should be able to Understand involvement of different Consultants & Specialists in an Architectural project and importance of interacting with them in a Project.

UNITS

UN	Name of the Unit	CSs	Questions
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1 To 2	Discussions, getting inputs from the Consultants	CP Block 01 & 2	Students are expected to work at an Architect's office (Internship) as per the guidelines of CoA, and approved by the Study Center Head, for duration of two semesters and complete sufficient number of projects related to this course, with regular critical remarks and assessment from the counselor/ supervising architect and peer students, during the semester. External and internal experts will jointly evaluate these projects for 100 marks with viva after presentation by the student for about 5-7 minutes
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DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1 to 2	Discussions, getting inputs from the Consultants on the ongoing projects undertaken by the office, documenting as per the directions of the supervising architect. Understanding the inputs to be given to the consultants and feedback from them.	CP Block 01 to 2

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24103-TB1			
A24103-TB2			
Reference-Books			
A24103-RB1	Design Methods by Jones C. J.	(1992)	John Willey and Sons, Inc. ISBN- 0-471- 28496-3
A24103-RB2	How Designers think: the design process demystified by Lawson B.	2005	Architectural Press, Oxford ISBN 13-978-0-7506- 6077-8
A24103-RB3	Elements of Design: Rowena Reed Kostellow and the Structure of Visual Relationships Hannah G.G	2002	Princeton Architectural Press, NY, USA ISBN 1-56898-329-8

A24103-RB4	Thinking Design By Prof S Balram		
A24103-RB5	Visual Thinking by Frank M. Young		
A24103-RB6	The Art of Looking Sideways		
A24103-RB7	Concepts and Responses		
CD / DVD			
A24103-CD1			
A24103-CD2			
Web Links			
A24103-WL1			
A24103-WL2			

A24104: CRITICAL APPRAISAL

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
10	A24104	Critical Appraisal	4				20	80	100	SV

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed: A24056 Architectural Design -V	The student shall work at an Architect's office (Internship) as per the guidelines of CoA, and approved by the Study Center Head, for duration of two semesters. After successful completion of this course, student should be able to Understand on-going construction work on sites, supervisory controls of an Architect in a Project. After successful completion of this course, student should be able to Present critical appraisal of a building type, or an Architect's work recently executed

UNITS

UN	Name of the Unit	CSs	Questions
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1 To 4	Making critical appraisal of a building type or an architect's work or recently executed project.	CP Block 01 to 4	Students are expected to work at an Architect's office (Internship) as per the guidelines of CoA, and approved by the Study Center Head, for duration of two semesters and complete sufficient number of projects related to this course, with regular critical remarks and assessment from the counselor/ supervising architect and peer students, during the semester. External and internal experts will jointly evaluate these projects for 100 marks with viva after presentation by the student for about 5-7 minutes
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DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1 to 4	Making critical appraisal of a building type or an architect's work or recently executed project in the city where the student is undertaking training. The documentation will be in the form of a portfolio along with digital copy of the same.	CP Block 01 to 4

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24104-TB1			
A24104-TB2			
Reference-Books			
A24104-RB1	Design Methods by Jones C. J.	(1992)	John Willey and Sons, Inc. ISBN- 0-471- 28496-3
A24104-RB2	How Designers think: the design process demystified by Lawson B.	2005	Architectural Press, Oxford ISBN 13-978-0-7506- 6077-8
A24104-RB3	Elements of Design: Rowena Reed Kostellow and the Structure of Visual Relationships Hannah G.G	2002	Princeton Architectural Press, NY, USA ISBN 1-56898-329-8

A24104-RB4	Thinking Design By Prof S Balram		
A24104-RB5	Visual Thinking by Frank M. Young		
A24104-RB6	The Art of Looking Sideways		
A24104-RB7	Concepts and Responses		
CD / DVD			
A24104-CD1			
A24104-CD2			
Web Links			
A24104-WL1			
A24104-WL2			

A24105: OFFICE ADMINISTRATION & LOG BOOK - II

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
10	A24105	Office Administration & Log Book - II	2				10	40	50	SV

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed: A24056 Architectural Design -V	The student shall work at an Architect's office (Internship) as per the guidelines of CoA, and approved by the Study Center Head, for duration of two semesters. After successful completion of this course, student should be able to Understand on-going construction work on sites, supervisory controls of an Architect in a Project. After successful completion of this course, student should be able to Understand the basic working system, management & activities involved in of an architect's office.

UNITS

UN	Name of the Unit	CSs	Questions
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1 To 2	Understanding the basic working system of an architect's office	CP Block 01 & 02 CSs 01-45	Students are expected to work at an Architect's office (Internship) as per the guidelines of CoA, and approved by the Study Center Head, for duration of two semesters and complete sufficient number of projects related to this course, with regular critical remarks and assessment from the counselor/ supervising architect and peer students, during the semester. External and internal experts will jointly evaluate these projects for 100 marks with viva after presentation by the student for about 5-7 minutes
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DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1 to 2	Understanding the basic working system of an architect's office, regularity in attendance, maintaining a daily log book of activities involved in the office, personnel & management and hierarchy of office staff.	CP Block 01 to 2

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24105-TB1			
A24105-TB2			
Reference-Books			
A24105-RB1	Design Methods by Jones C. J.	(1992)	John Willey and Sons, Inc. ISBN- 0-471- 28496-3
A24105-RB2	How Designers think: the design process demystified by Lawson B.	2005	Architectural Press, Oxford ISBN 13-978-0-7506- 6077-8
A24105-RB3	Elements of Design: Rowena Reed Kostellow and the Structure of Visual Relationships Hannah G.G	2002	Princeton Architectural Press, NY, USA ISBN 1-56898-329-8

A24105-RB4	Thinking Design By Prof S Balram		
A24105-RB5	Visual Thinking by Frank M. Young		
A24105-RB6	The Art of Looking Sideways		
A24105-RB7	Concepts and Responses		
CD / DVD			
A24105-CD1			
A24105-CD2			
Web Links			
A24105-WL1			
A24105-WL2			

A24106: WORKING DRAWINGS & DETAILS - II

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ycmou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture (General)
4	Level	UG
5	Course Used in	V22: B.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
10	A24106	Working Drawings & details - II	8				40	160	200	SV

PRESUMED KNOWLEDGE AND LEARNING OBJECTIVES

Presumed Knowledge	Learning Objectives
For successful completion of this course, student should have successfully completed: A24056 Architectural Design -V	The student shall work at an Architect's office (Internship) as per the guidelines of CoA, and approved by the Study Center Head, for duration of two semesters. After successful completion of this course, student should be able to Understand on-going construction work on sites, supervisory controls of an Architect in a Project. After successful completion of this course, student should be able to Prepare Working drawings & details of an Architectural project.

UNITS

UN	Name of the Unit	CSs	Questions
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1 To 8	Prepare Working drawings & details of an Architectural project, under the guidance of supervising architect.	CP Block 01 to 08	Students are expected to work at an Architect's office (Internship) as per the guidelines of CoA, and approved by the Study Center Head, for duration of two semesters and complete sufficient number of projects related to this course, with regular critical remarks and assessment from the counselor/ supervising architect and peer students, during the semester. External and internal experts will jointly evaluate these projects for 100 marks with viva after presentation by the student for about 5-7 minutes
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DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1 to 2	Prepare Working drawings & details of an Architectural project, under the guidance of supervising architect.	CP Block 01 to 08

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
A24106-TB1			
A24106-TB2			
Reference-Books			
A24106-RB1	Design Methods by Jones C. J.	(1992)	John Willey and Sons, Inc. ISBN- 0-471- 28496-3
A24106-RB2	How Designers think: the design process demystified by Lawson B.	2005	Architectural Press, Oxford ISBN 13-978-0-7506- 6077-8
A24106-RB3	Elements of Design: Rowena Reed Kostellow and the Structure of Visual Relationships Hannah G.G	2002	Princeton Architectural Press, NY, USA ISBN 1-56898-329-8

A24106-RB4	Thinking Design By Prof S Balram		
A24106-RB5	Visual Thinking by Frank M. Young		
A24106-RB6	The Art of Looking Sideways		
A24106-RB7	Concepts and Responses		
CD / DVD			
A24106-CD1			
A24106-CD2			
Web Links			
A24106-WL1			
A24106-WL2			