

SCHOOL OF ARCHITECTURE, SCIENCE AND TECHNOLOGY
YASHWANTRAO CAHVAN MAHARASHTRA OPEN UNIVERSITY

Syllabus V41:M.Arch. General

2011

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

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SYLLABUS FOR

V41: M.ARCH. (GENERAL) (2011 PATTERN)

BASIC INFORMATION

1. **Mode of Education:** Full time face-to-face mode enhanced with ELearning support.
2. **Minimum Programme Duration:** 2 years after B.Arch. or Equivalent
3. **Required Study Efforts:** _____ 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 B.Arch. or its equivalent examination. 	Min 50% or better marks in total 24 courses (subjects) of total 96 credit points at Semesters 11-14. Aggregate performance and Class in the programme shall be reported on the basis of semesters 3 & 4.	Desc	INR	USD
		UF	6,400	540
		SCF	21,000	2,100
		ASF	8,000	800
		EF	150/T 250/STW 400/SV	15/T 25/STW 40/SV
		Total ≈	40,000	3,600
		LD	2,000	200
		AFA	Year 1 Year 2	15,000 15,050

SEMESTERS AND COURSES

SN	Code	Name	CA	EE	TM	Type	CPs
Semester 1: 24 CPs.							
01	A31011	Contemporary Architecture Trends & Theories	10	40	50	T	2
02	A31012	Research Strategies	10	40	50	T	2
03	A31013	Mass Housing design strategies and standards	20	80	100	STW	4
04	A31014	Urban Design	20	80	100	STW	4
05	A31015	Elective: Landscape Design	20	80	100	STW	4
	A32015	OR Elective: Architectural Conservation					
06	A31016	Design Studio 1	40	160	200	SV	8
Semester 2: 24 CPs.							
07	A31021	Project Assessment & Management	10	40	50	T	2
08	A31022	Finance & Economics in Building Industry	10	40	50	T	2
09	A31023	Advanced Building Construction Techniques	20	80	100	STW	4
10	A31024	Advanced Building Services & Design With Climate	20	80	100	STW	4
11	A31025	Elective: Vernacular Architecture	20	80	100	STW	4
	A32025	OR Elective: Futuristic Architecture					
12	A31026	Design Studio 2	40	160	200	SV	8
Semester 3: 24 CPs							
13	A31031	Building Byelaws & Arch. Practice	10	40	50	T	2
14	A31032	Architectural legalities	20	80	100	T	4
15	A31033	Architectural Evaluation	10	40	50	STW	2
16	A31034	Architectural Documentation	20	80	100	STW	4
17	A31035	Elective: Traffic & Transport Design	20	80	100	STW	4
	A32035	OR Elective: Infrastructure Services					
18	A31036	Design Studio 3	40	160	200	SV	8
Semester 4: 24 CPs							
19	A31041	M. Arch. (General) dissertation 1	40	160	200	SV	8
20	A31041	M. Arch. (General) dissertation 2	80	320	400	SV	16

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 	<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
3	Studio with Viva (SV)	<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 Viva on studio Activities Maximum 5 Attempts only Marks: 20 Marks for each CP 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 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 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

A31011: CONTEMPORARY ARCHITECTURE TRENDS & THEORIES

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ymou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture
4	Level	PG
5	Course Used in	V41: M.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
01	A31011	Contemporary Architecture Trends & Theories	2	20	2	22	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">Passed the B.Arch.OR its equivalent examination.	After successful completion of this course, student should be able to: <ul style="list-style-type: none">Develop an awareness of contemporary architecture.Update their comprehensive knowledge of architecture.

UNITS

UN	Name of the Unit	CSs	Questions
1-1	Evolution through the formal and the informal built-form & theories.	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.
1-2	Influencing factors: Advances in Construction Technology and new materials of construction.		
1-3	Influencing factors: Advances in Digital Technology and its use..		
2-1	Analysis and design.	CP Block 02 CSs 11-20	Students have to answer '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
2-2	Factor of safety.		

DETAILED SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1-1	Evolution through the formal and the informal built-form, forces that shaped both. Cross connections showing form determining factors. Manifestations and significant theories, pragmatic and the abstract. Theories seen independently of the styles as classified later in history. Brief review of state of art of designing and the theories of Design and Architecture studied during the B. Arch. degree programme, with emphasis on 20th century up to present period,	CP Block 01
1-2	Influencing factors in the shaping of contemporary architecture –study of examples of modern structures in this period and analyse the influences with respect to - Advances in Construction Technology and new materials of construction.	
1-3	Influencing factors in the shaping of contemporary architecture study of examples of modern structures in this period and analyse the influences with respect to - Advances in Digital Technology and its use in visualization, simulation and application techniques.	
2-1	Influencing factors in the shaping of contemporary architecture –study of examples of modern structures in this period and analyse the influences with respect to - awareness and application of sustainability and impact on environment.	CP Block 02
2-2	Influencing factors in the shaping of contemporary architecture –study of examples of modern structures in this period and analyse the influences with respect to – Architectural expression influenced by vernacular and regional Architecture.	
2-3	Influencing factors in the shaping of contemporary architecture –study of examples of modern structures in this period and analyse the influences with respect to – Architectural expression influenced by world as a global village	

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
-TB1			
Reference-Books			
A31011-RB1	The language of post modern Architecture by Charles Jencks		
A31011-RB2	Modern Architecture since 1900 by William J. Curtis		
A31011-RB3	Intentions in Architecture by Norberg Schulz C		
A31011-RB4	Design and Technology in Architecture by Guise D		
A31011-RB5	Contemporary Indian Architecture : After the Masters by Bhatt V and Scriver P.		
CD / DVD			
-CD1			

Web Links			
_____	-WL1		

A31012: RESEARCH STRATEGIES

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
4	Level	PG
5	Course Used in	V41: M.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
01	A31012	Research Strategies	2	20	2	22	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"> Passed the B.Arch. OR its equivalent examination. 	<p>After successful completion of this course, student should be able to:</p> <ul style="list-style-type: none"> To understand importance of research in architecture and the theoretical and practical significance of research, types of research in process of formulating a research plan, various methods of research, their applications, data and simple statistical analysis, interpret and infer from the data. To understand methods of technical writing and presenting a research report.

UNITS

UN	Name of the Unit	CSs	Questions
1-1	Introduction to "research" and its significance in architecture.	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.
1-2	Research Design: Components of research, Literature Study and Research		
1-3	Methods of Research in Architecture: Interview Techniques, Visual Techniques		
2-1	Analysis : Content Analysis, Data Documentation and 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.
2-2	Introduction to the Statistics: Introduction to the simple statistical methods of analyzing numerical data, statistical data analysis, Presentation & Reporting, Reporting the Research.		

DETAILED SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1-1	Introduction to “research” and its significance in architecture – meaning of research. Relationship between design and research. Types of research in architecture, areas of research in architecture, qualitative and quantitative paradigms.	CP Block 01
1-2	Research Design: Components of research design – formulating the research questions, hypothesis, choosing the sample, methods of data collection, analyzing the data and inferring from the data. Concepts of dependent and independent variables, unit of analysis. Defining the scope and limitations of a research plan, significance of the research outcome. Preparing time schedule & budget for a research plan. Literature Study and Research: Significance of literature study in research, different sources of information such as books, journals, newspapers, internet, magazines, audio-recordings, etc. Referencing and documenting the bibliography.	
1-3	Methods of Research in Architecture: Interview Techniques: Questionnaires /Face to face Interviews / Internet survey. Designing a Questionnaire / Interview schedule. Visual Techniques: Observations (participant / non-participant / direct), activity mapping, accession/erosion trace observations, cognitive maps, etc	
2-1	Analysis : Content Analysis: Secondary data analysis: Understanding the relative advantages, disadvantages and application of various methods mentioned above and choosing a method appropriate for a research to achieve its objectives. Data Documentation and Analysis: Understanding the nature of data collected and methods of analysis suitable for that data (graphical / numerical / descriptive). Converting data into numerical form for data analysis.	CP Block 02
2-2	Introduction to the Statistics: Introduction to the simple statistical methods of analyzing numerical data – frequencies / percentages, mean / median / mode, correlation, chi square test – inferring from the data and interpreting the meaning of those inferences. Use of MS Excel for statistical data analysis. Presentation & Reporting: Presentation of the Data: Techniques of presenting the numerical data – graphical (pie charts, bar charts, line graphs etc.), tabulations, verbal qualitative data, architectural drawings / maps. Reporting the Research : Different sections of a research report, technical writing and language (tense, voice, etc.), formatting of a report.	

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
-TB1			
Reference-Books			
A31012-RB1	The Practice of Social Research Babbie, E.	3rd Ed.1983	Belmont :Wadsworth Publishing Co..
A31012-RB2	Research Design: Qualitative, quantitative and mixed methods approaches By Creswell, J. W.	2nd Ed 2003.	Thousand Oaks : Sage

A31012-RB3	Research Design: Qualitative & Quantitative Approaches By Creswell, J. W.	1994	Thousand Oaks : Sage
A31012-RB4	Surveys in Social Research, Jaipur By De Vaus, D. A	2003	Rawat Publications
A31012-RB5	Qualitative Data Analysis : A User Friendly Guide for Social Scientists By Dey, I	1993	London : Routledge
A31012-RB6	Architectural Research Methods By Groat, L. & Wang, D.	2002	NY : John Wiley and Sons Inc.
A31012-RB7	Research Methodology : Methods and Techniques By Kothari, C.R.	2005	New Delhi : Wishwa Prakashan
A31012-RB8	Research Methods in the Social Sciences By Nachmias, C. F. and Nachmias, D.	5th Ed 1996	Great Britain: St. Martin's Press Inc
A31012-RB9	Handbook of Qualitative Research By Norman K Denzin and Yvonna S Lincoln (Eds.)	pp.377-392.1994.	Thousand Oaks : Sage Publications
A31012-RB10	Qualitative Evaluation Methods By Patton, M. Q.	1980	Sage Publications
A31012-RB11	Methods of Architectural Programming By Sanoff, H	1977	Dowden Hutchinson and Ross, Inc. Vol. 29, Community Development Series
A31012-RB12	Visual research methods in design By Sanoff, H	1991	USA : Van Nostrand Reinhold
A31012-RB13	Interpreting Qualitative Data : Methods for Analysing Talk, Text and Interaction By Silverman, D.	1993	, London: Sage Publication
A31012-RB14	Behavioral Methods in Environmental Design By William Michelson (ed.)	1982	Stroudsburg, Pennsylvania : Dowden Hutchinson and Ross. Inc.
CD / DVD			
-CD1			
Web Links			
-			
WL1			

A31013: MASS HOUSING DESIGN STRATEGIES AND STANDARDS

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
4	Level	PG
5	Course Used in	V41: M.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
01	A31013	Mass Housing design strategies and standards	4	56	4	60	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"> Passed the B.Arch. OR its equivalent examination. 	<p>After successful completion of this course, student should be able to:</p> <ul style="list-style-type: none"> To understand strategies adopted in Mass Housing projects of various nature and issues related to Design considerations.

UNITS

UN	Name of the Unit	CSs	Questions
Four Case studies with analysis The projects to be include:			
1	Mass housing project for higher income group or combinations of income groups in Urban areas.	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	Mass housing project for Slum Improvement schemes by Government or private organisations.	CP Block 02 CSs 15-30	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
3	Mass housing project for Old Age people.	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	Rehabilitation / transit accommodation /camps for people affected by natural disasters like earthquake, floods, refugees, or other disasters.	CP Block 04 CSs 46-60	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
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DETAILED SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
	Four Case studies with analysis of the mass housing projects with respect to Need / Demand of the project considering socio-economic conditions, Government policies for promotion, Development control, Finance and Pricing, Technology and Time constraints, Geography, local conditions and Climatic conditions, Evolving Design Brief for the Project, Progress of construction commencement/completion, Special design considerations for the user, etc. The projects to be include:	
1	Mass housing project for higher income group or combinations of income groups in Urban areas.	CP Block 01
2	Mass housing project for Slum Improvement schemes by Government or private organisations.	CP Block 02
3	Mass housing project for Old Age people.	CP Block 03
4	Rehabilitation / transit accommodation /camps for people affected by natural disasters like earthquake, floods, refugees, or other disasters.	CP Block 04

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
-TB1			
Reference-Books			
A31013-RB1	Housing By Macsai John	1982	John Wiley and Sons New York
A31013-RB2	Population and Housing problems in India Vol. I & II Maurya S. D.	1989	Chugh Publication Allahabad
A31013-RB3	The social impact of housing goals standards	1977	U. N. New York
A31013-RB4	G.I.C. :An Introduction to housing layout	1978	HNS
CD / DVD			
-CD1			
Web Links			
-WL1			

A31014: URBAN 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
4	Level	PG
5	Course Used in	V41: M.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
01	A31014	Urban Design	4	56	4	60	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"> Passed the B.Arch. OR its equivalent examination. 	<p>After successful completion of this course, student should be:</p> <p>Introduced to the basic elements, principles and techniques of urban design so as to develop an understanding of the broader aspects and issues that bear upon the conception and design of 3-d built environment and public spaces at urban level.</p>

UNITS

UN	Name of the Unit	CSs	Questions
1	Introduction to urban design objectives and scope of urban design	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	Elements of urban design basic urban design principles and techniques.	CP Block 02 CSs 15-30	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
3	Brief overview of Legislation and Development control	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	Case study in view of the above issues related to Urban Design.	CP Block 04 CSs 46-60	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
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DETAILED SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1	Introduction to urban design, relationship between urban design, architecture and urban planning; objectives and scope of urban design	CP Block 01
2	Elements of urban design, urban morphology, urban form, urban mass, urban space. Some basic urban design principles and techniques.	CP Block 02
3	Brief overview of Legislation and Development control with respect to the Regional plan, Development plans, Land-use, Density control, environmental impact, affecting Urban Design.	CP Block 03
4	Case study / appraisal of an Urban center / central business district /Town center in view of the above issues related to Urban Design.	CP Block 04

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
-TB1			
Reference-Books			
A31014-RB1	Design of cities Bacon, By Edmund. N	1974	Thames and Hudson Ltd. London
A31014-RB2	Emerging Concepts in Urban Space Design By Broadbent. G	1994	Van Nostrand Reihnhold New York
A31014-RB3	Concept of Urban Design By Gosling D & Mattes	1985	
A31014-RB4	Image of The City, Lynch K	1980	MIT Press, Cambridge Mass
A31014-RB4	Urban Design The Architecture of Towns and Cities, By Sprieregen Paul D	1965	Mcgraw Hill Book Company, New York
CD / DVD			
-CD1			
Web Links			
-WL1			

A31015: ELECTIVE 1 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
4	Level	PG
5	Course Used in	V41: M.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
01	A31015	Elective 1: Landscape Design	4	56	4	60	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"> Passed the B.Arch. OR its equivalent examination. 	<p>After successful completion of this course, student should be:</p> <p>Understand land use development in terms of its natural characteristics, and provide analysis and recommendations for ecological renewal and development through appropriate design interventions</p>

UNITS

UN	Name of the Unit	CSs	Questions
1	Brief review of Landscape design studied during the B. Arch. degree programme.	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	Landscape and its relation to human living	CP Block 02 CSs 15-30	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
3	Case study / appraisal of Landscape design of an Urban center / central business district /Town	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	Case study / appraisal of Landscape design of a medium size housing	CP Block 04 CSs 46-60	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
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DETAILED SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1	Brief review of Landscape design studied during the B. Arch. degree programme.	CP Block 01
2	Landscape and its relation to climate, topography, drainage subsoil, vegetation and their co-relation. Elements and Materials Landscape, their effect on visual and spatial organization in terms of environmental quality for human living	CP Block 02
3	Case study / appraisal of Landscape design of an Urban center / central business district /Town center in view of the issues referred in block 2 above and design of public spaces, street furniture, etc.	CP Block 03
4	Case study / appraisal of Landscape design of a medium size housing development in view of the above issues referred in block 2 above	CP Block 04

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
_____ -TB1			
Reference-Books			
A31015-RB1	Site Planning by Anne Beers		
A31015-RB2	Neighborhood Planning by Clara & Anne Beers		
A31015-RB3	Landscape of Man by Geoffrey Jellycose		
A31015-RB4	Time Saver Standards for Landscape Planning		
CD / DVD			
_____ -CD1			
Web Links			
_____ -WL1			

A32015: ELECTIVE 2 ARCHITECTURAL CONSERVATION

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
4	Level	PG
5	Course Used in	V41: M.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
01	A32015	Elective 2: Architectural Conservation	4	56	4	60	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"> Passed the B.Arch. OR its equivalent examination. 	<p>After successful completion of this course, student should be:</p> <p>Introduced to the role of conservation architects, types and methodology of architectural conservation with team of experts from fields related to architectural conservation.</p>

UNITS

UN	Name of the Unit	CSs	Questions
1	Introduction to architectural conservation	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	Preparatory procedure for conservation	CP Block 02 CSs 15-30	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
3	Conservation procedure	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	Case study / appraisal of Conservation project	CP Block 04 CSs 46-60	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.

DETAILED SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1	Introduction to architectural conservation of buildings of importance - definition nature, purpose and scope. Values in conservation; Ethics of conservation building conservation legislation etc.	CP Block 01
2	Preparatory procedure for conservation : Inventories, inspection, documentation; degree of intervention for prevention of deterioration, prevention of existing state, consolidation of the fabric, restoration, rehabilitation, reproduction, reconstruction etc. Structural aspects of building to study structural elements such as beams, arches and domes; thumbs and walls, piers and columns, foundation etc. Causes of decay in buildings by natural and human factors, Disasters, Botanical, Biological and Microbiological causes.	CP Block 02
3	Conservation procedure - the work of conservation Architect and his team of coworkers: inspection documentation and reports, Research, analysis, Preventive maintenance, fire and security, cost control, special skills in arts and crafts.	CP Block 03
4	Case study / appraisal of Conservation project of a medium size in view of the above issues referred in block 1 to 3 above.	CP Block 04

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
-TB1			
Reference-Books			
A32015-RB1	An introduction to conservation by Feildon B. M.		UNESCO Paris
A32015-RB2	Conservation of Building by I. H. Harvey.		
A32015-RB3	A critical bibliography of Building Conservation By Smith I. H.		
CD / DVD			
-CD1			
Web Links			
-WL1			

A31016: DESIGN STUDIO 1

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ymcou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture
4	Level	PG
5	Course Used in	V41: M.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
01	A31016	Design Studio 1	8	112	8	120	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"> Passed the B.Arch. OR its equivalent examination. 	<p>After successful completion of this course, student should be able to:</p> <p>Acquire a comprehensive base of knowledge required for the practice of architecture.</p> <p>Develop awareness in physical context about implications of limited sources in design decision making.</p>

UNITS

UN	Name of the Unit	CSs	Questions
1 to 8	<p>Mass Housing Project of a large magnitude in one of the categories or a similar development typology below:</p> <ol style="list-style-type: none"> Higher income group or combinations of income groups in Urban areas. Slum Improvement schemes by Government or private organizations Housing project for Old Age people Rehabilitation / transit accommodation /camps for people affected by natural disasters like earthquake, floods, refugees, or other disasters. <p>The final project work will include Architectural drawings & relevant details, case study/ies,</p>	<p>CP Block 01 to 08 CSs 01-120</p>	<p>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</p>

DETAILED SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1 to 8	<p>Mass Housing Project of a large magnitude in one of the categories or a similar development typology below:</p> <ol style="list-style-type: none"> 1. Higher income group or combinations of income groups in Urban areas. 2. Slum Improvement schemes by Government or private organizations 3. Housing project for Old Age people 4. Rehabilitation / transit accommodation /camps for people affected by natural disasters like earthquake, floods, refugees, or other disasters. <p>An in-depth research and analysis of activities below to evaluate the progress of work:</p> <ol style="list-style-type: none"> a. Need / Demand of the project considering socio-economic conditions b. Geography, local conditions and Climatic conditions c. Special design considerations for the user d. Development control legislations e. Amenities for the residential development f. Case study/ies to substantiate the design philosophy g. Impact of the development on adjacent neighborhood h. Evolving Design Brief for the Project i. Deriving typical modules for dwelling types j. Architectural Design project <p>The final project work will include Architectural drawings & relevant details, case study/ies,</p>	CP Block 01 to 08

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
_____ -TB1			
Reference-Books			
A31016-RB1	Planning and Architecture Edited by Dennis Sharp Editor		
A31016-RB2	Planning feasible learning places By Leggett S Bru Baker C. W. & Cohodes A.		
A31016-RB3	Methods in Architecture By. Town Health		
CD / DVD			
_____ -CD1			
Web Links			
_____ -WL1			

SEMESTER 02

A31021: PROJECT ASSESSMENT & MANAGEMENT

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
4	Level	PG
5	Course Used in	V41: M.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
02	A31021	Project Assessment & Management	2	20	2	22	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">Passed the B.Arch.OR its equivalent examination.	After successful completion of this course, student should be able to: Develop an awareness Significance and Architect's role in Project Management, & Process of Project Management & organization

UNITS

UN	Name of the Unit	CSs	Questions
1-1	Significance and Architect's role in Project Management.	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.
1-2	Compilation of relevant data		
2-1	Process of Project Management & organization	CP Block 02 CSs 11-20	Students have to answer '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
2-2	Site, Material, Human resources and Equipment		
2-3	Economics & financial accounting systems		

DETAILED SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1-1	Significance and Architect's role in Project Management. Effects on Quality control, Timely completion and Project costs.	CP Block 01
1-2	Compilation of relevant data about: The objective of project, Drawings & Details, Materials & Specifications, Building Services involved, and actual & estimated costs. Any specific constraints about Site conditions & Topography, Completion Time, availability of materials & skilled/unskilled workers, use of specialised technology & construction equipment, quality control measures & checkpoints, etc	
2-1	Process of Project Management & organization, Project Team, Quality control and Architect's supervisory / monitoring role, PERT / CPM and Network Techniques, Time cost analysis and Value engineering.	CP Block 02
2-2	Site, Material, Human resources and Equipment Management, Cost control and cash flow. Material procurement, inventory & flow. Requirement & hierarchy of Human resources. Logistics & co-ordination of activities. Evolving of system for Quality controls & check points.	
2-3	Economics & financial accounting systems, legal aspects & accountability and establishing system for appraisal during construction.	

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
_____ -TB1			
Reference-Books			
A31021-RB1	Projects: Appraisal, Analysis, Financing, Implementation & Review; By Prasanna Chandra		TMH publication
A31021-RB2	Project Management By Kerzner H,		CBS Publishers
A31021-RB3	Project Cost Control in construction; By Pilcher R		Collins
A31021-RB4	Quality Assurance in Construction Dunkan, Thorpe & Summer		Gower
CD / DVD			
_____ -CD1			
Web Links			
_____ -WL1			

A31022: FINANCE & ECONOMICS IN BUILDING INDUSTRY

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
4	Level	PG
5	Course Used in	V41: M.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
02	A31022	Finance & Economics in Building Industry	2	20	2	22	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"> Passed the B.Arch. OR its equivalent examination. 	<p>After successful completion of this course, student should be able to:</p> <p>To understand Factors influencing Location of development, issues like Business Finance, Sources of Finance, Capital Market, Financial Services etc.</p>

UNITS

UN	Name of the Unit	CSs	Questions
1-1	Introduction to Building Economics	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.
1-2	Factors influencing Location of development		
1-3	Large, medium and small scale development		
1-4	Housing Policy of Indian Government		
2-1	Business Finance	CP Block 02 CSs 11-20	Students have to answer '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
2-2	Sources of Finance		
2-3	Capital Market		
2-4	Financial Services		

DETAILED SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1-1	Introduction to Building Economics: Meaning, Scope, Need and Significance of Study of building Economics. Inter-Dependence of Agriculture, Industrial and Economic	CP Block

	Development.	01
1-2	Factors influencing Location of development. Factors affecting productivity and efficiency like Social & Cultural, Industrialisation, Urbanisation.	
1-3	Large, medium and small scale development in Private Sector, Public Sector.	
1-4	Housing Policy of Indian Government	
2-1	Business Finance: Estimating the short, Medium and long term financial requirements. Financial Plan- Characteristics & Limitations.	CP Block 02
2-2	Sources of Finance: Private Sector, Public Sector, Co-operative Sector, Govt. Participation, and Foreign Sources.	
2-3	Capital Market: Primary and Secondary Capital Market Players. Functioning & Critical Evaluation.	
2-4	Financial Services relating to raising of Capital: Loan policies of Banks, Private, Public, & Government financial bodies. Project Appraisal	

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
-TB1			
Reference-Books			
A31012-RB1	Financial Management –Theory and Practice By Prasanna Chandra		Tata McGraw Hill
A31012-RB2	Financial Management By I M Pandey		Vikas PublishingHouse
A31012-RB3	Managerial Finance By J Fred Weston & Thomas E Copeland		The Dryden Press, New York.
A31012-RB4	Fundamentals of Financial Management By Van Horne J		C Prentice Hall, New Delhi
A31012-RB5	Construction Management: Planning & Finance By Cormican D		Construction Press, London
CD / DVD			
-CD1			
Web Links			
-WL1			

A31023: ADVANCED BUILDING CONSTRUCTION TECHNIQUES

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
4	Level	PG
5	Course Used in	V41: M.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
02	A31023	Advanced Building Construction Techniques	4	56	4	60	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"> Passed the B.Arch. OR its equivalent examination. 	<p>After successful completion of this course, student should be able to:</p> <p>To develop awareness and understanding construction of large span structures, High rise buildings, Pre-fabrication in building construction, Modular co-ordination, and advance building materials</p>

UNITS

UN	Name of the Unit	CSs	Questions
Four Case studies with analysis The projects to be include:			
1	Conceptual Understanding of various large span structures	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	Study of advance building materials	CP Block 02 CSs 15-30	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
3	Conceptual Understanding of High rise buildings	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	Conceptual Understanding of Pre-fabrication in building construction. Concept of Modular co-ordination	CP Block 04 CSs 46-60	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
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DETAILED SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1	Conceptual Understanding of various large span structures, like Geodesic domes, hyperbolic paraboloids, and free form shapes etc. used for Airports, Stadia, Industrial buildings, public spaces etc. Construction details understanding, Service systems, Structural Systems, Sequence of erection and facilitating maintenance of such structures. Identify specialized equipment required for erection of such structures. Case study/ies of such structures and reporting.	CP Block 01
2	Study of advance building materials like Special alloys of steel & other metals, glass, polymer, fabric, Various types of finishes & treatments, Construction chemicals, specially manufactured items from manufacturers catalogues, etc. and specialized equipment required for erection used in erection of structures mentioned in Block 1 above. Market survey and collection of information about the materials.	CP Block 02
3	Conceptual Understanding of High rise buildings in normal and adverse conditions considering topography of the site, water-logging, marine structures, etc. Construction details understanding, Service systems, Structural Systems, Sequence of erection and facilitating maintenance of such structures. Identify specialized equipment required for erection of such structures. Case study/ies of such structures and reporting.	CP Block 03
4	Conceptual Understanding of Pre-fabrication in building construction. Concept of Modular co-ordination. Construction details understanding, Service systems, Structural Systems, Sequence of erection and facilitating maintenance of such structures. Essential process of manufacturing, handling of pre-fabricated components. Identify specialized equipment required for erection of such structures. Case study/ies of such structures and reporting.	CP Block 04

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
_____ -TB1			
Reference-Books			
A31023-RB1	Architects working details Vol. 1 to 16		
A31023-RB2	Time – saver Standards		
A31023-RB3	Structure in Architecture by Salvadori and Heller		
A31023-RB4	Design of Steel – Structures by Vazirani – Rathvani		
A31023-RB5	Elements of structure by Morgan		
A31023-RB6	Steel space frames by Makovsky		
CD / DVD			
_____ -CD1			

Web Links			
_____	-WL1		

A31024: ADVANCED BUILDING SERVICES & DESIGN WITH CLIMATE

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
4	Level	PG
5	Course Used in	V41: M.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
02	A31024	Advanced Building Services & Design With Climate	4	56	4	60	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"> • Passed the B.Arch. • OR its equivalent examination. 	<p>After successful completion of this course, student should be:</p> <p>To develop awareness and understanding of Advanced Building Services employed in various complex buildings and address environmental issues related to these services.</p>

UNITS

UN	Name of the Unit	CSs	Questions
1	Water supply & Plumbing systems in high rise building complexes and complex structures:	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	Sanitation and Waste disposal systems in high rise building complexes and complex structures:	CP Block 02 CSs 15-30	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
3-1	Mechanical & Communication systems	CP Block 03 CSs 31-45	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
3-2	Electrical and telecommunication systems		
3-3	Lighting, Heating, Ventilation & Air conditioning systems		

4-1	Acoustics Design parameters for determining the acoustical behavior of spaces	CP Block 04 CSs 46-60	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
4-2	Fire protection and prevention		

DETAILED SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1	Water supply & Plumbing systems in high rise building complexes and complex structures: Procurement, demand and distribution of water in large complexes. Quality of water consideration for different uses. Systems and equipment used in Treatment of water for distribution, recycling and reuse and specialized equipment used for this purpose. Identify special needs for a building typology-development. Case study/ies of such structures and reporting.	CP Block 01
2	Sanitation and Waste disposal systems in high rise building complexes and complex structures: Collection and disposal systems used in high rise buildings and complex structures. Effluent treatment plants and their efficiency, chemical properties of the treated effluent considering the source and end use. Concept of recycling and reuse of treated effluent. Rain water harvesting and similar methods of conserving water resources. Disposal of treated effluent into natural sources of water. Storm/rain/surface water estimation, collection systems and disposal. Case study/ies of such structures and reporting	CP Block 02
3-1	Mechanical & Communication systems (elevators, escalators, conveyors, etc.). Security systems etc. in high rise building complexes, public buildings, Parking lots and complex structures like Hospitals, public transport terminals etc. Design parameters for determining the loads & requirement, Operation and maintenance of these Services. Case study/ies of such structures and reporting.	CP Block 03
3-2	Electrical and telecommunication systems in high rise building complexes public buildings, and complex structures like Hospitals, public transport terminals, IT complexes etc. Design parameters for determining the loads & requirement, Operation and maintenance of these Services. Case study/ies of such structures and reporting.	
3-3	Lighting, Heating, Ventilation & Air conditioning systems in high rise building complexes, public buildings, Parking lots and complex structures like Hospitals, public transport terminals etc. Design parameters for determining the loads & requirement, Operation and maintenance of these Services. Passive & active ways of control of heat, light, humidity etc. for comfort conditions. Introduction to simulation software to determine comfort conditions in various spaces. Case study/ies of such structures and reporting. Intelligent buildings	
4-1	A brief overview of Acoustics studied in the B Arch programme. Design parameters for determining the acoustical behavior of spaces. Passive & active ways of control of acoustical behavior of spaces for good hearing conditions. Introduction to simulation software to determine acoustical behavior of spaces. Study of advance acoustical materials, types of finishes & treatments, specially manufactured items from manufacturer's catalogues, etc. Case study/ies of such structures and reporting.	CP Block 04

4-2	Code provisions from NBC for Fire protection and prevention in high rise building complexes, public buildings, Parking lots and complex structures like Hospitals, public transport terminals educational buildings, building types categorised under etc. Design parameters for determining the loads & requirement. Study of advance materials, types of finishes & treatments, specially manufactured items from manufacturer's catalogues, etc for prevention of fire and fire-fighting	
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LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
____-TB1			
Reference-Books			
A31024-RB1	Environment and services – Peter Bucberry		
A31024-RB2	ABC's of Air Conditioning – Ernest Tricomi		
A31024-RB3	Heating and Air Conditioning of Buildings		
A31024-RB4	Environmental Science – Smith Philips and Sweeney		
A31024-RB5	Mechanical & Electrical Equipment in Buildings		
A31024-RB6	Sanitation, Drainage, & Water Supply – Mitchell		
A31024-RB7	Drainage & Sanitation – E. H. Blake		
A31024-RB8	Heating & Hot Water Supply – Hall.		
A31024-RB9	Architectural Acoustics By M. David Egan	January 2007	ISBN: 978-1-932159-78-3
A31024- RB10	Architectural Acoustics By Marshall Long	2006	Elsevier Academic Press
CD / DVD			
____-CD1			
Web Links			
____-WL1			

A31025: ELECTIVE 1 VERNACULAR 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
4	Level	PG
5	Course Used in	V41: M.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
02	A31025	Elective 1: Vernacular Architecture	4	56	4	60	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"> Passed the B.Arch. OR its equivalent examination. 	<p>After successful completion of this course, student should be:</p> <ul style="list-style-type: none"> Identify and conserve the untapped values and principles in the evolution of new theories for architectural creations Highlight needs and various ways of vernacular building research, analysis, presentation of finding and its application to contemporary buildings

UNITS

UN	Name of the Unit	CSs	Questions
1	Introduction to Vernacular architecture in history of world architecture (outside Indian subcontinent)	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	Case study/ies of works of architects in contemporary world architecture (outside Indian subcontinent)	CP Block 02 CSs 15-30	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
3	Introduction to Vernacular in history of architecture in Indian subcontinent	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	Case study/ies of works of architects in contemporary Indian architecture	CP Block 04 CSs 46-60	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
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DETAILED SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1	Introduction to Vernacular architecture it's nature, purpose and scope. Analytical review classification, salient features and important contributions in evolving workable solutions. Study of examples of Vernacular architecture in history of world architecture (outside Indian subcontinent) to understand evolution of building forms based on functions, building materials and construction techniques, art & crafts, the local conditions, traditions, climate & geography, religion & culture in the period when they were built	CP Block 01
2	Case study/ies of works of architects in contemporary world architecture (outside Indian subcontinent) whose works are influenced by the Vernacular Architecture of the region.	CP Block 02
3	Introduction to Vernacular architecture it's nature, purpose and scope. Analytical review classification, salient features and important contributions in evolving workable solutions. Study of examples of Vernacular architecture in history of architecture in Indian subcontinent; to understand evolution of building forms based on functions, building materials and construction techniques, art & crafts, the local conditions, traditions, climate & geography, religion & culture in the period when they were built	CP Block 03
4	Case study/ies of works of architects in contemporary Indian architecture; whose works are influenced by the Vernacular Architecture of the region	CP Block 04

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
-TB1			
Reference-Books			
A31025-RB1	Vernacular Architecture: An Illustrated Handbook By R.W. Brunskill	4th ed 2000	Faber and Faber ISBN-10: 0571195032
A31025-RB2	Architecture Without Architects: A Short Introduction to Non-pedigreed Architecture by Bernard Rudofsky		
A31025-RB3	Bhatia, Gautam, Laurie Baker, Life, Work, Writings, New Delhi, India,	1994	Penguin Books, ISBN 0-14-015460-4
A31025-RB4	Voluntary Agencies and Housing: A Report on Some Voluntary Agencies Working in the Field of Housing in India, by Madhao Achwal. Published	1979	UNICEF

A31025-RB5	Handmade Houses and Other Buildings The World of Vernacular Architecture By John May	2010	Thames & Hudson
A31025-RB6	Hassan Fathy- Architectural Monographs, By James Steele	1988	St. Martin's Press
CD / DVD			
_____ -CD1			
Web Links			
_____ -WL1			

A32025: ELECTIVE 2 FUTURISTIC 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
4	Level	PG
5	Course Used in	V41: M.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
02	A32025	Elective 2: Futuristic Architecture	4	56	4	60	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"> Passed the B.Arch. OR its equivalent examination. 	<p>After successful completion of this course, student should be:</p> <p>Introduced to the artistic and social movement form of architecture characterized by anti-historicism, including speed, technology, youth and violence, and objects such as the car, the airplane and the industrial city. Futurism practiced in every medium of art, including painting, sculpture, ceramics, graphic design, industrial design, interior design, theatre, film, fashion, textiles, literature, music, architecture and even gastronomy. discipline thus seeking a systematic and pattern-based understanding of past and present, and to determine the likelihood of future events and trends.</p>

UNITS

UN	Name of the Unit	CSs	Questions
1	Introduction to study of futurology	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	Brief review of design philosophy of past and present and the trends experienced	CP Block 02 CSs 15-30	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.

3	Futuristic building forms and structural systems	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	Futuristic building materials, construction techniques and technologies	CP Block 04 CSs 46-60	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.

DETAILED SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1	Introduction to study of futurology - study of postulating possible, probable, and preferable futures and the worldviews and myths that underlie them. Generally understand terms like Foresight, Probability & predictability, Methodology, Futures techniques, Shaping Alternative futures, Near and Long term predictions, Trend analysis, forecasting, etc.	CP Block 01
2	Brief review of design philosophy of past and present and try to project the trends experienced. Look into possible Futuristic needs in context with advancement in the field of information technology, web, internet, simulation techniques and changing culture of society affecting forms of architecture	CP Block 02
3	Futuristic building forms and structural systems catering to the future needs.	CP Block 03
4	Futuristic building materials, construction techniques and technologies.	CP Block 04

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
_____ -TB1			
Reference-Books			
A32025-RB1	Future Shock By Alvin Toffler	1970	Random House
A32025-RB2	2081: A Hopeful View of the Human Future Gerard K. O'Neill	1981	Simon & Schuster
A32025-RB3	Futurewise By Patrick Dixon	2007	HarperCollins, Profile Business
A32025-RB4	A Short History of the Future By W. Warren Wagar	1989	
A32025-RB5	Sustainability By Patrick Dixon and Johan Gorecki	2010	Kogan Page
A32025-RB6	Nineteen Eighty-Four By George Orwell		
CD / DVD			
_____ -CD1			

Web Links			
_____	-WL1		

A31026: DESIGN STUDIO 2

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ymcou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture
4	Level	PG
5	Course Used in	V41: M.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
02	A31026	Design Studio 2	8	112	8	120	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"> Passed the B.Arch. OR its equivalent examination. 	<p>After successful completion of this course, student should be able to:</p> <p>Acquire a comprehensive base of knowledge required for the practice of architecture.</p> <p>Develop awareness in physical context about implications of limited sources in design decision making.</p>

UNITS

UN	Name of the Unit	CSs	Questions
1 to 8	Architectural Design Project of a large magnitude in one of or similar categories of building typology emphasizing on need of Advance construction techniques and Advance Building services like: Projects for High end hospitality industry, Super specialty hospitals, Airports & mass transportation terminals, Research laboratories, High end IT parks & establishments, High rise buildings, State Secretariat and assembly, etc.	<p>CP Block 01 to 08 CSs 01-120</p>	<p>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</p>

DETAILED SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1 to 8	<p>An in-depth research and analysis of activities below to evaluate the progress of work:</p> <ol style="list-style-type: none"> Geography, local conditions and Climatic conditions, Special design considerations for the user, Development control legislations and Disaster management systems and controls, Amenities for the project, Case study/ies to substantiate the design philosophy, Impact of the development on adjacent neighborhood Evolving Design Brief for the Project <p>The final project work will include Architectural drawings & relevant details, case study/ies, reports for the research/documentation for the project.</p>	CP Block 01 to 08

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
-TB1			
Reference-Books			
A31016-RB1	Planning and Architecture Edited by Dennis Sharp Editor		
A31016-RB2	Planning feasible learning places By Leggett S Bru Baker C. W. & Cohodes A.		
A31016-RB3	Methods in Architecture By. Town Health		
CD / DVD			
-CD1			
Web Links			
-WL1			

SEMESTER 03

A31031: BUILDING BYELAWS & ARCH. PRACTICE

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
4	Level	PG
5	Course Used in	V41: M.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
03	A31031	Building Byelaws & Arch. Practice	2	20	2	22	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">Passed the B.Arch.OR its equivalent examination.	After successful completion of this course, student should be able to: Develop an awareness Significance and Architect's role in profession. Acquaint with relevant Acts & Laws and general Management of Architectural Practice.

UNITS

UN	Name of the Unit	CSs	Questions
1	An overview of the Town Planning Acts of Urban Development ministry of States & Central Government. DCRules, R P, DP, at State, District, Urban agglomeration, Local planning Authorities, CRZs, etc	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	Architects office and office Management, Role & Duties of International Architectural practice	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	Detail Syllabus of the Unit	CP Block
1	An overview of the Town Planning Acts of Urban Development ministry of States & Central Government. The rules and regulations for Development Control and the principles behind the framing of these. Regional Plan, Development Plans, at State,	CP Block 01

	District, Urban agglomeration, Municipal Corporations & Councils, Improvement trusts & Regional Development Authorities, CRZs, etc. Procedures for formulations, Implementation and applying fro Approvals at various levels.	
2	Architects office and office Management. Interaction with the consultants. Design Management Issues. Role & Duties of Architect as an Employer or Employee. International Architectural practice and role of Various Statutory / Regulatory bodies in licensing like RIBA, AIA, etc	CP Book 02

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
-TB1			
Reference-Books			
A31031-RB1	COA Handbook of Professional Documents	2009	
A31031-RB2	Maharashtra Regional Town Planning Act	1966	
A31031-RB3	Land Revenue Code	1966	
A31031-RB4	Professional Practice By Roshan Namavati	2005	Lakhani Book Depot
A31031-RB5	Professional Practice By Madhav Deobhakta		
CD / DVD			
-CD1			
Web Links			
-WL1			

A31032: ARCHITECTURAL LEGALITIES

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
4	Level	PG
5	Course Used in	V41: M.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
03	A31032	Architectural legalities	2	20	2	22	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"> Passed the B.Arch. OR its equivalent examination. 	<p>After successful completion of this course, student should be able to:</p> <p>Acquaint with relevant Acts & Laws related to Architectural Practice in India and Internationally.</p>

UNITS

UN	Name of the Unit	CSs	Questions
1-1	Architects Act 1972 in India and COA.	CP	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	Regulations, Conditions and requirements of qualification, equivalence etc. for International practice	Block 01 CSs 01-10	
2-1	An overview of various Acts relevant to the Architectural profession	CP	Students have to answer '1 of 1' SAQ & '1 of 2' LAQs in end exam on these units.
2-2	An overview of various Acts relevant to the Architectural profession.	Block 02 CSs 11-20	

DETAILED SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1-1	Architects Act 1972 in India – Scope of work, Professional conduct, Scale of fees, etc. Architect's Professional liabilities and responsibilities. Architectural Competitions. Registration and continuation of registration of COA.	CP Block 01
1-2	Regulations, Conditions and requirements of qualification, equivalence etc. for International practice in countries other than India like: USA, UK, Europe, Gulf countries, Asian countries etc.	

2-1	An overview of various Acts relevant to the Architectural profession: Taxation laws like IT, Service Tax, etc	CP Book 02
2-2	An overview of various Acts relevant to the Architectural profession: like Indian Contract Act, Environment related laws, etc	

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
_____ -TB1			
Reference-Books			
A31031-RB1	COA Handbook of Professional Documents		
A31031-RB2	Income Tax Act		
A31031-RB3	Service Tax Act		
A31031-RB4	Environmental Laws		
A31031-RB5	Indian Contract Act		
CD / DVD			
_____ -CD1			
Web Links			
_____ -WL1			

A31033: ARCHITECTURAL EVALUATION

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
4	Level	PG
5	Course Used in	V41: M.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
03	A31033	Architectural Evaluation	4	56	4	60	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"> Passed the B.Arch. OR its equivalent examination. 	<p>After successful completion of this course, student should be able to:</p> <p>To have acquired the ability to analyze and evaluate architectural projects etc. and also understand architectural research with special emphasis on India.</p>

UNITS

UN	Name of the Unit	CSs	Questions
Four Case studies with analysis The projects to be include:			
1	Introduction to architectural evaluation.	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	Techniques of analysis and evaluation.	CP Block 02 CSs 15-30	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
3	Value of appraisal / evaluation reports and reviews.	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	Techniques of report and review writing.	CP Block 04 CSs 46-60	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
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DETAILED SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1	Introduction to architectural evaluation in general and definition, purpose, scope and its applications to Architecture, fine arts literature etc.	CP Block 01
2	Techniques of analysis and evaluation employed in buildings, projects competitions etc. methods of appraisal / evaluation of building complexes and exhibitions.	CP Block 02
3	Value of appraisal / evaluation reports and reviews in the field of architecture fine-arts, literature. Their scope and merits	CP Block 03
4	Techniques of report and review writing, their application to architectural publications	CP Block 04

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
_____ -TB1			
Reference-Books			
A31033-RB1	Research in Architecture by Architects by Dr. Lean Van Schaik		
A31033-RB2	Architecture and people by Eugene Raskin		
A31033-RB3	Architecture and Critical imaginations by Attoe Wayne		
A31033-RB4	Architecture Judgement by Collin Peters.		
CD / DVD			
_____ -CD1			
Web Links			
_____ -WL1			

A31034: ARCHITECTURAL DOCUMENTATION

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
4	Level	PG
5	Course Used in	V41: M.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
03	A31034	Architectural Documentation	4	56	4	60	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">Passed the B.Arch.OR its equivalent examination.	After successful completion of this course, student should be: To develop awareness and understanding of importance of Documentation, Research and Surveys practice of architecture .

UNITS

UN	Name of the Unit	CSs	Questions
1	Purpose of Documentation, Selection of the project.	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	Research: historical research.	CP Block 02 CSs 15-30	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
3	Geodetic survey.	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	The final presentation.	CP Block 04 CSs 46-60	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.

DETAILED SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1	Purpose of Documentation: To Record Existing structure, to aim at conservation of the structure, etc. Selection of the project: Heritage documentation, Monograph of an Architect, Contemporary project, etc.	CP Block 01
2	Research: historical research related to Styles and contemporary works, influence of culture and technology, context etc.	CP Block 02
3	Geodetic survey: Topographic maps, road maps, site maps etc. Architectural survey: survey methodology, physical measure drawings, Photographic survey, Digital Architectural Photogrammetry, 2 D & 3D digital drawings, etc.	CP Block 03
4	The final presentation shall be a document of a small Architectural example or part of the structure, where the content will cover various issues mentioned above	CP Block 04

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
_____ -TB1			
Reference-Books			
A31024-RB1			
A31024-RB2			
A31024-RB3			
A31024-RB4			
A31024-RB5			
A31024-RB6			
A31024-RB7			
A31024-RB8			
A31024-RB9			
A31024-RB10			
CD / DVD			
_____ -CD1			
Web Links			
_____ -WL1			

A31035: ELECTIVE 1 TRAFFIC & TRANSPORT 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
4	Level	PG
5	Course Used in	V41: M.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
03	A31035	Elective 1: Traffic & Transport Design	4	56	4	60	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"> Passed the B.Arch. OR its equivalent examination. 	<p>After successful completion of this course, student should be able to understand:</p> <p>Evaluation of Urban Structure and Transportation, Management of Transportation system, policies in relation to the Environment considerations.</p>

UNITS

UN	Name of the Unit	CSs	Questions
1	Evaluation of Urban Structure Transportation systems infrastructure, Transportation survey and studies	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	Management of Transportation system, Regional Transport systems.	CP Block 02 CSs 15-30	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.
3	Transport and Environment.	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	Transport policies.	CP Block 04 CSs 46-60	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.

DETAILED SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1	Evaluation of Urban Structure Transportation systems infrastructure and management, transportation systems and their types, design and operating characteristics, urban road hierarchy planning, engineering and management; criteria for road and junction improvements, arterial improvement techniques. Transportation survey and studies: Study area definitions, surveys and their types, sampling methods, survey techniques; designing O-D and other Traffic and transportation surveys, programming and scheduling, processing of travel data, analysis and interpretation of traffic studies.	CP Block 01
2	Management of Transportation system: Existing organizational and legal framework, traffic and environmental management techniques. Management techniques, review of existing traffic management schemes. Framework for evaluation of system option, plan preparation Regional Transport system: Importance of accessibility in regional transport planning. Role of road, rail, air and water transport systems. Regional transport systems, planning road network, planning for micro regions	CP Block 02
3	Transport and Environment: Traffic noise, factors affecting noise, noise abatement measures, standards. Air pollution standards, traffic safety, accident reporting and recording systems. Factors affecting road safety, transport planning for target groups, children, adults handicapped and women. Norms and guidelines for highway landscape, street lighting types, standards and design considerations, transport and environment, EIA of transport project	CP Block 03
4	Transport policies: Review of national, state and local level transport policies and their relevance in spatial and economic planning, pricing and funding of transport systems, transport technology, energy and environmental implication in transport planning in developing countries; planning for public transportation; planning for bicyclists and pedestrians. Regional road network planning, highway project planning and financing Public transportation planning. Overviews of system technologies, technological options, characteristics choice of technology corridor analysis integrated system plan concept, system selection, legal and institutional provisions, pricing and financing of public transport service.	CP Block 04

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
-TB1			
Reference-Books			
A31035-RB1			
A31035-RB2			
A31035-RB3			
CD / DVD			
-CD1			
Web Links			
-WL1			

A32035: ELECTIVE 2 INFRASTRUCTURE SERVICES

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ymcou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture
4	Level	PG
5	Course Used in	V41: M.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
03	A32035	Elective 2: Infrastructure Services	4	56	4	60	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"> Passed the B.Arch. OR its equivalent examination. 	<p>After successful completion of this course, student should be:</p> <p>Introduced to the artistic and social movement form of architecture characterized by anti-historicism, including speed, technology, youth and violence, and objects such as the car, the airplane and the industrial city. Futurism practiced in every medium of art, including painting, sculpture, ceramics, graphic design, industrial design, interior design, theatre, film, fashion, textiles, literature, music, architecture and even gastronomy. discipline thus seeking a systematic and pattern-based understanding of past and present, and to determine the likelihood of future events and trends.</p>

UNITS

UN	Name of the Unit	CSs	Questions
1 to 4	<p>Case study of an existing large scale project of one of the building typologies like:</p> <p>a. High end hospitality industry, Super specialty hospitals, Airports & mass transportation terminals, Research laboratories, High end IT parks & establishments, High rise buildings, State Secretariat and assembly</p> <p>b. Mass Housing Project of a large magnitude</p>	<p>CP Block 01 to 04</p> <p>CSs 01-60</p>	<p>Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.</p>

DETAILED SYLLABUS

UN	Detail Syllabus of the Unit	CP Block

1 to 4	<p>Case study of an existing large scale project of one of the building typologies like:</p> <p>c. High end hospitality industry, Super specialty hospitals, Airports & mass transportation terminals, Research laboratories, High end IT parks & establishments, High rise buildings, State Secretariat and assembly</p> <p>d. Mass Housing Project of a large magnitude</p> <p>In view of the following aspects, within the project:</p> <p>1 Infrastructure development planning: financing issues and emerging options. Demand, gap and issues, pricing policies.</p> <p>2 Water Supply: Water Cycle and Water Resources. Water Balance. Per capita water supply, norms, Water quality, Treatment of water. Storage of Water. Planning and Design criteria for Distribution. Block Cost Estimation of water Supply Scheme. Water Losses and Un-accounted for Water. Rain Water Harvesting concept. Water Supply System. Watershed Management. Role of micro-level water management committees. Drainage and Sanitation. Basic planning and design criteria, norm, etc. Re-use and recycling of waste water. Treatment of waste water (conventional). Low cost treatment, land based treatment methods.</p> <p>3 Power (Electricity), Telecommunication, advanced communication services,</p> <p>4 Civic Amenities, Roads, Health care, Education, Recreation, Communication, Community halls, Markets, Security, Safety, (Fire station), etc.</p>	CP Block 01 to 04
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LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
-TB1			
Reference-Books			
A32035-RB1			
A32035-RB2			
A32035-RB3			
A32035-RB4			
A32035-RB5			
A32035-RB6			
CD / DVD			
-CD1			
Web Links			
-WL1			

A31036: DESIGN STUDIO 3

PROGRAMME INFORMATION

SN	Description	Details
1	University	Yashwantrao Chavan Maharashtra Open University Nashik - 422 222, Maharashtra, India Website: http://www.ymcou.com/
2	School	School of Architecture, Science and Technology
3	Discipline	Architecture
4	Level	PG
5	Course Used in	V41: M.Arch. (General)

COURSE INFORMATION

Sem	Code	Course Name	CP	CST	CAT	ST	CA	EE	TM	Type
03	A31036	Design Studio 2	8	112	8	120	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"> Passed the B.Arch. OR its equivalent examination. 	<p>After successful completion of this course, student should be able to:</p> <p>Acquire a comprehensive base of knowledge required for the practice of architecture.</p> <p>Develop awareness in physical context about implications of limited sources in design decision making.</p>

UNITS

UN	Name of the Unit	CSs	Questions
1 to 8	Architectural Design Project of a large magnitude in one of or similar categories of building typology emphasizing on need of Advance construction techniques and using modular co-ordination, pre-fabricated elements and technology.	<p>CP Block 01 to 08 CSs 01-120</p>	<p>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</p>

DETAILED SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1 to 8	<p>An in-depth research and analysis of activities below to evaluate the progress of work:</p> <ol style="list-style-type: none"> a. Identify a project requiring use of prefabrication, modular coordinated elements. b. Establish need & substantiate use of prefabrication, modular coordinated elements c. Geography, local conditions and Climatic conditions. d. Special design considerations for the devising a 3 dimensional module – grid. e. Designing for Considerations of manufacture, transport, handling, and specialized equipment and execution. f. Case study/ies to substantiate the design philosophy, g. Evolving Design Brief for the Project. <p>The final project work will include Architectural drawings & relevant details, case study/ies, reports for the research/documentation for the project.</p>	CP Block 01 to 08

LEARNING RESOURCE DETAILS

LR Code	Title Author	Edition Year	ISBN Publisher
Text-Books			
_____ -TB1			
Reference-Books			
A31016-RB1	Planning and Architecture Edited by Dennis Sharp Editor		
A31016-RB2	Planning feasible learning places By Leggett S Bru Baker C. W. & Cohodes A.		
A31016-RB3	Methods in Architecture By. Town Health		
CD / DVD			
_____ -CD1			
Web Links			
_____ -WL1			

SEMESTER 04

A31041: M. ARCH. (GENERAL) DISSERTATION 1

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	A31041	M. Arch. (General) Dissertation 1	8	112	8	120	40	160	200	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">Passed the B.Arch.OR its equivalent examination.	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 to 8	Studio: The student will be guided in their work by their selected / appointed guides throughout the three courses to produce an illustrative, written dissertation. The dissertation calls for a substantial impetus on the quality and quantity of output, besides having a thrust on newer and more relevant areas of research / design and plan intervention / application of planning, design and analytical tools and techniques. The choice of subject, formulation of Design Programme, Site investigation and selection, and finally culmination in the concrete design demonstration shall depend upon many factors such as student's personal interest, circumstances and abilities. A careful check shall be made to see that access is available to relevant buildings and to appropriate libraries, record offices, laboratories and other technical resources. Students are expected to complete the project, with critical remarks and assessment from the counselor.	CP Block 01 to 08 CSs 01-120	Students have to submit 'Report of Activities' in CA and 'Term Work' for end exam on these units.

DETAILED SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1 to 8	<p>Studio: The student will be guided in their work by their selected / appointed guides throughout the three courses to produce an illustrative, written dissertation. The dissertation calls for a substantial impetus on the quality and quantity of output, besides having a thrust on newer and more relevant areas of research / design and plan intervention / application of planning, design and analytical tools and techniques. The choice of subject, formulation of Design Programme, Site investigation and selection, and finally culmination in the concrete design demonstration shall depend upon many factors such as student's personal interest, circumstances and abilities. A careful check shall be made to see that access is available to relevant buildings and to appropriate libraries, record offices, laboratories and other technical resources. Students are expected to complete the project, with critical remarks and assessment from the counselor.</p> <p>Following is a list of few Building Types for reference; the student is free to choose any other Architectural topic of their interest.</p> <ol style="list-style-type: none"> 1. Housing Individual or Group Housing Schemes. 2. Transportation Projects: Railway stations, City / Interstate Bus Terminus / Domestic and International Air Ports 3. Cultural, Educational Projects: Display oriented topics like Museums, Art Galleries, and Theatres for Performing Arts such as Drama, Dance and Music. 4. University and College campuses, Libraries etc. 5. Sports Recreation and Tourism oriented topics: Stadium, Gymnasium, Swimming Pool, Students Recreation Centers, Clubs, Tourist Resorts, Holiday Homes, Motels, and Conference Centers etc. 6. Administrative and Civic Buildings : Private and Government Offices, work centers, Town Halls, Police Headquarters, Law Courts etc. 7. Industrial Projects: Factories, Specialised Production Centers such as Pharma Industry, IT Parks and related types of building 8. Technical and Specialized topics such as: Hospitals, Clinics, Film and T. V. Studios, 9. Cost and Structure oriented topics such as: Cost effective technologies, Energy efficient building design, Pre fabricated and Industrialized Construction etc. 	CP Block 01 - 08

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			

A31042: M. ARCH. (GENERAL) DISSERTATION 2

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	A31042	M. Arch. (General) Dissertation 2	16	224	16	240	80	320	400	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"> Passed the B.Arch. OR its equivalent examination. 	<p>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.</p>

UNITS

UN	Name of the Unit	CSs	Questions
1 To 16	Culmination of the post-graduate program in architecture.	<p>CP Block 01 to 16 CSs 01-240</p>	<p>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.</p>

DETAILS SYLLABUS

UN	Detail Syllabus of the Unit	CP Block
1 to 16	<p>Studio: The student will be guided in their work by their selected / appointed guides through out the three courses to produce an illustrative, written dissertation. The dissertation calls for a substantial impetus on the quality and quantity of output, besides having a thrust on newer and more relevant areas of research / design and plan intervention / application of planning, design and analytical tools and techniques. The choice of subject, formulation of Design Programme, Site investigation and selection, and finally culmination in the concrete design demonstration shall depend upon many factors such as student's personal interest, circumstances and abilities. A careful check shall be made to see that access is available to relevant buildings and to appropriate libraries, record offices, laboratories and other technical resources. Students are expected to complete the project, with critical remarks and assessment from the counselor</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			