भेवः (०२४६२) रस्टर्श्य / ४३ भेजाः (०२४६२) रस्टर्श्य / २२९३२५ स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड.



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जा.कं.शैक्षणिक/०१/अभ्या./2012-13/669

दि: 21.08.2012

प्रती, मा. परीक्षा नियंत्रक, प्रस्तुत विद्यापीठ.

विषय : Bachelor of Architecture FY अभ्यासकमा बाबत....

उपरोक्त विषयास अनुसरून आपणास सादर करण्यात येते की, प्रस्तुत विद्यापीठाच्या संलग्णीत महाविद्यालयात नव्याने सुरूवात करण्यात येणारा Bachelor of Architecture FY हा अभ्यासकम सोबत जोडल्या प्रमाणे शैक्षणिक वर्ष 2012—13 पासुन लागु करण्यात आला आहे.

तरी सदरील ही बाब संबंधितांच्या निदर्शनास आणून द्यावी.

सँचा**लर्क** महाविद्यालय व विद्यापीठ विकास मंडळ

प्रत माहिती व पुढील कार्यवाहीस्तव :

- संलग्नीत महाविद्यालये, प्रस्तुत विद्यापीठ.
- 2) कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीट.
- 3) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- 4) उपकुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDNED

Syllabus for the Bachelor of Architecture

Programe: B.Arch.

Course: Bachelor of Architecture (Semester I & II)

(As per Credit Based Semester and Grading System with effect from the academic year 2012–2013)

Introduction

t Notes for the creation of a new syllabus in architecture (Bachelor of Architecture, Swami Ramanand Teerth Marathwada University, Nanded)

Architectural Education in India has been weighed down by the traditions of Architectural Practice that labor under the twin hegemonies of design and technology. In the past architectural curricula have developed as reactions to historical change, to immediately preceding narratives. We must appreciate that architecture today is more and more being informed by disciplines out of/other than architecture.

There is a heed for redefining the Student of Architecture today. A student of architecture is not only a learner, but also a producer of knowledge. The student's tools include a critical, evaluative, conceptual mind, the ability to interconnect concepts/ facts, to use theory and argument and seek a higher level of explanation in the process of learning and its application to design. The student's initial challenges shall be to differentiate between objective and accepted reality, to appreciate architecture as a cultural process, and to perceive change as a series of discontinuities, more than cause/effect transitions. Only then can the student become relevant in today's world, rather than mindlessly repeat the dogma of the past.

In the creation of a new syllabus for the Bachelor of Architecture Course, certain adjustments to older mindsets must be made:

1 Architecture has to be appreciated as a 2nd Order Discipline. It is a Meta discipline, a critical attitude, not merely an empirical discipline like engineering that needs/seeks/works

2 Architecture deals with fundamental issues of users, cities and societies, and not only materials, processes and aesthetics. It questions the presupposed, and seeks new and contemporary meanings.

Before a new syllabus is made, the makers (teachers) must recognize their own possible insidiousness in the curriculum making process, and objectively go beyond their own accepted knowledge beliefs and realities. Real learning will not emerge merely out of the didactic (which itself emerges out of biases, prejudices and ad-hoc choices).

- The following objectives for a new syllabus for architectural education are proposed:
- 1. The new syllabus should prepare a student to understand and locate himself/herself in the real world.
- 2 The new syllabus should appreciate and reconcile itself to the imperfect times that we live
- 3. The new syllabus should reflect, through application, upon the technological state-of-theaid of the world today and its relevance.
- 4) The hew syllabus should give a direction or hope for the future.

In order to fulfill these objectives, the following questions may be asked first:

- 1 What is a work of architecture?
- 2. How is architecture different from nature?
- 3. How useful are our tools (curriculum) for evaluating these two questions (meta-

The syllabus should reflect the following objectives:

- Architecture is 'discipline'/ meta-discipline, not merely an empirical process
- Critical thinking/ criticality is important. The student must be given the tools to critically evaluate the world he/she lives in
- The student needs to be redefined as more than a leaner, but a producer of knowledge
- In the spreading world of information technology and easily available knowledge, the
 teacher needs to be redefined as more than a giver of information, but one who can
 show the student how design is a critical process
- The architecture syllabus needs to be flexible. Individual colleges should be given the means to interpret and expand on the syllabus in their own way
- * Diversity must be appreciated and encouraged. Learning can be simultaneous and non-linear
- A student needs to inculcate the ability to question, ability to redefine technology,
 ability to question the relevance of technology
- Being informed by disciplines out of/other than architecture, Non technology subjects,
 particularly those from the liberal arts and the humanities may come into foreground
- · Emphasis should be on theory also, not only on practice
- Encourage research and give direction to research

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In addition to these agreed objectives, the following external requirements are also acknowledged. The first is the adoption of the Credit system for evaluation and grading, that acknowledged. The first is the adoption of the Credit system for evaluation and grading, that the University of S.R. F.M. has adopted for all future syllabi. Secondly, acknowledging the requirements given by the Council of Architecture, New Delhi; the course shall now be requirements given by the Council of Architecture, New Delhi; the course shall now be requirements given by the Council of Architecture, New Delhi; the course shall now be requirements given by the Course and Advanced Course. The Council has divided into two distinct stages- a Basic Course and Advanced Course. The Council has divided into two distinct stages- a Basic Course and Advanced Course. The Council has divided into two distinct stages- a Basic Course and Advanced Course. The Council has divided into two distinct stages- a Basic Course and Advanced Course. The Council has divided into two distinct stages- a Basic Course and Advanced Course. The Council has divided into two distinct stages- a Basic Course and Advanced Course. The Council has divided into two distinct stages- a Basic Course and Advanced Course. The Council has divided into two distinct stages- a Basic Course and Advanced Course. The Council has divided into two distinct stages- a Basic Course and Advanced Course. The Council has divided into two distinct stages- a Basic Course and Advanced Course. The Council has divided into two distinct stages- a Basic Course and Advanced Course. The Council has divided into two distinct stages- a Basic Course and Advanced Course. The Council has divided into two distinct stages- a Basic Course and Advanced Course.

2-0 Explanatory notes on New Aspects in the Syllabus

Sessional work
Sessional Work in the B. Arch. Course can be defined as mandatory assignments carried out
by students in the classroom or the studio during the course of the semester (session).

Sessional work will be detailed out in the course content for each subject, which may include drawings, sketches, reports, presentations, models as per the requirements. In the case of theory intensive subjects, sessional work may be in the form of class tests, seminars, presentation of reports or documentation.

In the design studio or for the technical subjects, sessional work shall consist of supervised design development, the working out of technical details, reports and documentation. All these assignments are marked in process and upon completion may be assessed in the form of Crits or Juries. Sessional work in

all subjects shall be designed, carried out and assessed by the subjects in charge and collated as Internal Marks.

Allied Design Studio.

持续通信中。 1

The Architectural Design Studio is the central subject in the architecture course; other subjects supplement knowledge, skills and critical understanding of the design of architecture. The Allied Design Studio is also a studio where subjects allied to Architectural Subjects are closely associated with the core of design and architecture.

also their location in the first three years. Each subject shall have both a Lecture as well as a Studio component. Credits for the Allied Design Projects will be given to each student as per given by the respective Project teachers/ coordinators for the term.

College Projects

College projects form part of the 25% class time that shall be planned by the colleges according to their philosophy and institutional objectives. College Projects may include mixed group participation of students from different years, or may be dedicated to any one class. The College Project time and credits may also be used to supplement additional coursework to advance knowledge in the core subjects in the syllabus.

Credits for these projects will be given to each student as per his/her attendance, participation and contribution towards the projects. These Credits will be given by the respective project coordinators for the term.

The following is a representative list of what may constitute college projects: Seminars, Tutorials, additional classes for any course, Guest Lectures, putting up Exhibitions, Workshops participating in Architectural Competitions or conducting Site Visits or Study

Electives

Electives form part of the 25% class time that shall be planned by the colleges according to their philosophy and institutional objectives. Electives may include mixed group participation of students from different years, or may be dedicated to any one class. Electives shall be offered by the college to each class to supplement additional coursework or to advance knowledge in architecture and allied fields.

Credits for electives will be given to each student as per his/her attendance, participation and satisfactory completion of assignments. These Credits for the Electives shall be given by the respective elective teacher for the term.

Representative Lists for possible electives in architecture and allied fields can be referred to from the Council of Architecture's Document on Minimum Standards of Architectural Education. Each college can, of course, determine electives based on the needs of the day, and the availability of resource persons.

Scheme of Teaching and Examinations Bachelor of Architecture (B. Arch.) Semester I

3 /-				Credite.		
Sub	Semester L Exam conducted by individual colleges : SUBJECTS	Lecture	Studio	Theory	Studio	Tota
No.			4		4	4
101	Architectural Design Studio		4		4	4
102	Allied Design Studio	2	3	2	3	5
103	Architectural Building Construction & Materials	3	不是不是	3		3
104	Theory & Design of Structures		**************************************	3		3
105	Humanities .	3	The second secon	2	100	2
106	Environmental Studies	2	2 . 2		6	6
107	Architectural Representation & Detailing		3 +3	A PARLET OF	1634849	
4	Collegis projects		O Marine	The same and	COMMENCE OF	A CHARGE
	Eledive:		3	克里安斯 美沙拉	O POPULATION OF THE POPULATION	37.74E
	Total	10	26	10	26	36

Sub.	Semester Lexam. Exam conducted by Individual colleges SUBJECTS	Theory (paper)	Internal	External viva	Total
No. 101	Architectural Design Studio	THE MICHAEL SEN	150		150
102	Allied Design Studio	经过程 的基本	150	以上於	150
103	Architectural Building Construction	70	80	可能的可能	150
104	Theory & Design of Structures	50	50	则是"为为"之的	100
105	Humanities	50	50	2000年2000年2000年2000年2000年2000年2000年200	100
106	Environmental Studies	3	50	33.7536	50
10,7	Architectural Representation & Detailing	是是是是	100+50		150
200	College projects	d transact	100		第100章
2118	Elective		50	CONTRACTOR OF THE PARTY OF THE	50
	Total .				1000

Notes: Each period shall be of 50 minutes duration and each semester shall consist of 90 days of teaching programme.

The colleges are required to arrange the time table per semester as per the teaching scheme prescribed.

Syllabus (Course Content) for First Year B. Arch. course Semester I

101 Achitectural Design Studio 1

Credits 4

Teaching Hours

L'ectures ----

Studio-72 periods of 50 minutes duration -60 hours

Sessional marks-

Internal, 150

External ----

Understanding the human body in space

Activities and their relation ship with spaces

Scales and proportions

Developing a language vocabulary, visualization

Exposure to architecture.

Exposure to architects and their works

Buildings, practices, site visits, meeting architects

Sessional work based on the basis of above.

102 Allied Design Studio 1

Credits-4

Teaching Hours

3 (4) 3

Léctures

Studio-72periods of 50 minutes duration - 60hours

Sessional marks-

Internal 150

External ----

The course content will be developed by the individual colleges as per their choice of Allied Design scheme.

The schemes may include Visual Studies, Basic Design, Graphic Design, Product Design, Furniture Design, Design of Outdoor Spaces

Visual Field & Practices (given as an example)

Visual practices visual compositions using real world materials

Similarity & self-similarity understanding diversity

Natural & artificial forms/colors/textures; inherent/applied

7

903 Architectural Building Construction & Materials 1

Credits-5

Teaching Hours-

L'ectures-36 periods of 50 minutes duration- 30 hours Studio-154 periods of 50 minutes duration- 45 hours

Scheme of examination

Theory one paper of three hours duration Max. marks- 70 Min marks for passing- 28

Sessional marks-

leternal 80 marks

External -

Building Construction

Elements of buildings -Substructure/ Superstructure

Understanding role of building elements

Understanding construction built form & building practice

Paradigms: load bearing structures, frame structures

Study of Simple buildings from foundation to roof

Building construction drawing practices and conventions,

Building details models

Building Materials

Contextual relevance-what are buildings made of

Natural and artificial materials- where they are used

Materials shall be studied by understanding their PROPERTIES viz. Density & Specific gravity, Strength, Thermal properties etc.

The study shall strongly emphasize the 'Selection Criteria' comprising various aspects viz. Technology, Aesthetic, Socio-Cultural, Socio-Economic, Ecology (green materials), etc.

104 Theory & Design of Structures 1

Credits 3

Teaching Hours

Lectures-'54 periods of 50 minutes duration- 45 hours Studio-

Scheme of examination

Theory -one paper of two hours duration Max. marks- 50 Min marks for passing- 20

Sessional marks-

Internal- 50

External ----

Introduction to the subject and theory of structure:

a. Aims, objectives and scope of study of theory of structure for architects. Technical names and function of various structural components from foundation

to roof.

Fundamentals and mechanics.

- d. S.i. system and units.
- e. Understanding structure why things don't fall down

Structural systems- ways to create inner space Under standing loads of various types

ki dan iti. 1 understanding the forces and Moments -

Definition, cause, effect, units Types of forces, . Conditions of equilibrium Beam reactions

105 Humanities 1

Credits- 3

Teaching Hours

Lectures 54 periods of 50 minutes duration – 45 hours

Studio

Scheme of examination

Theory one paper of two hours duration Max. marks- 50 Min marks for passing- 20

Sessional marks-Internal: 50

External ----

World history systems of knowledge

History of culture understanding human cultural development, products and sociology

Chronology India and the world

106 Environmental Studies 1

Credits - 2 |

Teaching Hours-

Lectures 36 periods of 50 minutes duration

Studio-

Sessional marks-

Internal- 50

External

OBJECTIVE Understand the relationship between Natural environment and Built environment

Understanding Natural resources

Forest resources, Water resources, Mineral resources, Food resources, Energy resources,

Land resources !

ung na pandera!...

a light Continue 7.12 diarie

CONCEPTS : !

Natural Environment, Ecology and ecosystems, Bio diversity and co existence

Relationship and co-existence of Built & Natural Environments

Building Types & Lifestyles in different geographic zones and climatic zones

107 Architectural Representation & Detailing 1 Credits-6 Teaching Houts Lectures Studio-108 periods of 50 minutes duration – 90 hours Sessional marks Internal 150 Exte

Graphics

Studio work culture pencils, instruments, table, etc.

Plane geometry & solid geometry orthography

Drawing a building understanding thicknesses and hollows; plans, sections, elevations

Freehand

Memory left brain creativity

Objects taking things apart/ reassembly

Workshop

Building skills studio work culture; instruments, tabletop; cutting, joining, shaping

Materials and media installations assembly

120 College Projects 1

Credits-6

Teaching Hours-108 periods of 50 minutes duration - 90hours Sessional marks-Internal- 150

External ----

(to be developed by individual colleges)

The following is a representative list of what may constitute college projects:

Seminars, Tutorials/ additional classes for any course, Guest Lectures, putting up or Study Tours.

Tutorials/ additional classes for any course, Guest Lectures, putting up or Study Tours.

121 Elective 1

Credits- 3

Teaching Hours
Studio-54 periods of 50 minutes duration – 45 hours

External —

(to be developed by individual colleges)

Scheme of Teaching and Examinations Bachelor of Architecture (B. Arch.) Semester II

Semester - Exam conducted by individual colleges	Teaching Scheme		Credits		
Sub: COURSES No:	Lecture	Studio	Theory	Studio	Total
291 Architectural Design	giot Gay	4		4	4
202 Allied Design Studio	以发现的	4	94216	1	4
203 Architectural Building Construction & Material	s 2	3	2	3	5
204 Theory & Design of Structures	3	1922	3	10220000000000000000000000000000000000	3
205 Humanities	3	4000	3	等等的。 第二章 的第一章	3
200 Environmental Studies	2	STATE OF THE PARTY.	2	它在海线的影響。 图括英國際語	3
207 Architectural Representation & Detailing	2000	3+3	Z Parks	C	2
220 Gollege projects	Meridanian ing Ta	5633			D
WIT (Elective		<u> </u>	Macro et		107
Total	10	26	10	200	200
The first of the second of the	110	26	10	26	36

Sub.	SUBJECTS	Theory (paper)	Sessional Work	External viva	Total
201	Architectural Design Studio	100	150	-111-0	150
202	Allied Design Studio	32757021	150		150
203	Architectural Building Construction	70	80		150
204	Theory & Design of Structures	50	50	ard Louis 1277	100
205	Humanities	50	50		100
206	Environmental Studies		50	NAME OF STREET	50
207	Architectural Representation & Detailing		100+50	75000	150
220美	Collège projects.		100	ALC: DOWN	1000
2213	Elective		50		150
	Total		200	MANAGE AND SOUTH OF THE SAME	1000

Notes: Each period shall be of 50 minutes duration and each semester shall consist of 90 days of teaching programme.

the colleges are required to arrange the time table per semester as per the teaching scheme

11

Syllabus (Course Content) for First Year B. Arch. course Semester II

201 Architectural Design Studio 2

Credits-4

Teaching Hours

Lectures

Studio- 72 periods of 50 minutes duration -60 hours

Sessional marks-

Internal- 150

External -

Object & context

Architecture as environment

Architecture in context

Architectural insertions, Documentation, site visits, documentation through text, photography, drawings, computers

Design exercises - Designing of space for small groups and minor activities with reference to climate, site conditions, and user requirements.

202 Allied Design Studio 2

Credits-3

Teaching Hours

Lectures

Studio-72periods of 50 minutes duration - 60hours

Sessional marks-

The Liberty

Internal- 150 marks

External ----

The course content will be developed by the individual colleges as per their choice of Allied

The schemes may include Visual Studies, Basic Design, Graphic Design, Product Design, Furniture Design, Design of Outdoor Spaces

Visual Field & Practices (given as an example)

Aesthetics as a product of context/ media

Mixing media/ hybridity

Visual culture icon, index, symbol

Installations exercises

12

203 Architectural Building Construction & Materials 2

Credits 5

Teaching Hours-Lectures-36 periods of 50 minutes duration- 30 hours Studio- 54 periods of 50 minutes duration- 45 hours

Scheme of examination

Theory one paper of three hours duration Max. marks- 70 Min marks for passing- 28

Sessional marks-

Internal, 80 marks.

External

Building Construction

walling systems external envelopes, internal partitions in various materials, cavity walls

ppenings/fenestrations

structural considerations; structural spans; lintel, beam, arch

fenestrations: opaque, translucent, transparent

Building Materials

Material Syntax . . .

synchronic and paradigmatic choices

Understanding Specifications & Quantities

The outcome of this course is the ability to SPECIFY building materials as per the demands of Design Program.

204 Theory & Design of structures 2

Credits- 3

:Teaching :Hours !

Lectures- 54 periods of 50 minutes duration- 45 hours

Scheme of examination

Theory -one paper of two hours duration Max. marks- 50 Min marks for passing- 20

Sessional marks-

External ----

自控制制的数 Understanding various concepts about structures as tall, long, thin, wide etc.

Understanding Asticul Understanding Articulation of structural systems from foundation to roof

Understanding the following:

- (1) Properties of section (2) Stress and strain:

 - 2) Stress and strain:
 11 3) Shear force and bending moment
 - 4) Theory of simple Bending

Lectures - 54 periods of 50 minutes duration – 45 hours

Theory one paper of two hours duration Max. marks- 50 Min marks for passing- 20

Sessional marks-

Internal 50

External -

History of art culture & aesthetics

Spicety, Context, Aesthetics, Architecture

Prehistory, Paleolithic and Neolithic Cultures,

River Valley Civilizations

Classical Greece and Rome

Vedic Culture, Kingship in India, Hellenistic influences

Buddhism and Jainism

206 Environmental Studies 2

Credits-2

Teaching Hours

Lectures - 36 periods of 50 minutes duration - 30 hours

Studio-

Sessional marks-

Internal 50 marks

External -

OBJECTIVE:

Study the effect of architectural development on natural resources

Effects of architectural development on natural resources

Concepts of sustainable development

Renewable resources

Water cycle and its management

Conservation and generation of energy

207 Architectural Representation & Detailing 2

Credits-6 护部中操 计扩充

Teaching Hours

Lectures---

Stedio 108 periods of 50 minutes duration - 90 hours

Sessional marks-

Internal 150

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External ----

Graphics

Views isometric, axonometric

Perspective & sciography exercises (may be done on sketch

Ereehand

Landscape outdoor sketching

Anatomy

Workshop

Visual practices exercises

Architectural design exercises- making models

Theory of structures and construction - making of models

220 College Projects 2

Credits-6

Teaching Hours-

108 periods of 50 minutes duration - 90hours

Sessional marks-

Internal 150

External -

(to be developed by individual colleges)

The following is a representative list of what may constitute college projects

Seminars, Tutorials/ additional classes for any course, Guest Lectures, putting up Exhibitions,

Workshops, participating in Architectural Competitions or conducting Site Visits or Study Tours.

221 Elective 2

Lectures
Studio - 54 periods of 50 minutes duration -45 hours
Sessional marks-

External -

(to be developed by individual colleges)

DETAILS OF SCHEME OF EXAMINATION SEMESTER II TO BE CONDUCTED BY COLLEGES.

1	Semester II	THEC	THEORY			SESSIONAL MARKS				
	EXAMINATION Exam conducted by individual colleges					Internal		External		
SR NO		No of papers	duration	Max. marks	Min. Marks for passing	Max. marks	Min. Marks for passing	Max Marks	Min. Marks For passing	Max. marks for the course
201						150	75			150
202	Allied Design					150	75			150
203		1	3HOURS	70	28	80	40			150
204	Theory & Design of Structures 2	1	2HOURS	50	20	50	25			100
205,	Humanities 2	1	2HOURS	50	20	50	25			100
206	Environmental Studies 1					50	25			50
207	Architectural Representation & Detailing 2				***	100+50	75			150
220	College projects					100	50			100
221	Elective 2					50	25			50

Notes.

Theory, internal sessional work, and external viva are considered as separate heads of passing

Stilleture

Total marks for the examination = 1000

Minimur

Minimum marks for passing the examination= 50