

SATHYABAMA UNIVERSITY
FACULTY OF BUILDING & ENVIRONMENT
DEPARTMENT OF ARCHITECTURE

New courses included in regulations 2020

PREAMBLE

The Board of Studies approved the proposed Curriculum and syllabus of Regulation 2020 for B.Arch. course with incorporation of suggestions and feedback given by the external members. The suggestions made by the external members are presented in the minutes of meeting are given below.

A Board of Studies meeting was held as Virtual mode in ZOOM platform on 30th June 2020 with the following agenda:

1. Welcome address, opening remarks on the proposal to introduce REGULATION 2020 and the methodology adopted.
2. Comparative analysis of existing R 2015 and proposed R 2020 curriculum structure, R 2020 curriculum structure and Salient Features of Regulation 2020.
3. Detailed discussions on the proposed syllabus (from semester I to semester X) and proposed Regulation 2020.
4. Any other matter with the permission of Chair.

Minutes of the meeting:

- Dr. Devyani Gangopadhyay presented the welcome address and briefed the agenda of the meeting
- Prof. Suresh Kuppusamy, discussed on the conceptual framework of the revisions in R2020 syllabus.
- Dr. Devyani Gangopadhyay discussed on the salient features of the proposed revised curriculum structure along with the analysis stating the intent of the revisions in curriculum structure and the content integrating with Design studios.
- The professional training was proposed to be shifted to eighth semester as per Council of Architecture Regulations 2017.
- Prof. Meghal, raised a query on COA's distribution of courses as it is mandatory to be followed or optional.
- Prof. Devyani Gangopadhyay, replied it as optional.
- Prof. Meghal asked on the necessity for **Applied mathematics**. She suggested that it could be Geometry instead of Trigonometry and suggested to reduce credits, asked to review on this.
 - Remove this subject and replace other subject or replace these credits to other subjects and integrate with Design.

- Ar.Pramod said geometrical exercises already there in Architectural Drawing and hence the syllabus can be reoriented apart from geometry.
- the internal team agreed upon this suggestion.
- Ar. Pramod, commented that **Soft skill development** cannot be just a theory subject for one semester and needs to be proposed in every semester with introduction in I semester, so that we can ensure continuous learning till 9th semester .
- Prof. Meghal, seconded on the above citing this will help the agenda of integration much more. She approved for introducing Soft skill development.
- The internal committee agreed to the external members' decision.
- Ar.Pramod insisted that **Society culture and environment** can't be dealt fully in one semester. He felt the society connect should be reflected in the semester Design studios.
- Prof.Suresh Kuppusamy replied that this can be strengthened and shall be proposed in third and fourth as SCE-I and SCE-II respectively. Lectures can be given in the studio hours on these and can integrate with design.
- Prof.Devyani briefed to the committee members that many students in 9thsem Dissertation project, took society related topics like- Public open spaces, Behavioural study in public spaces like parks, streets and walkability and pursued the dissertation successfully.
- Ar.Pramod and Prof. Meghal approved on introducing Society Culture and Environment upon insisting that the subject is interrelated with Architectural Design.
- Ar. Meghal presented her views on **History Of Architecture**. She commented that only styles are mentioned in the syllabus and deep thinking as a lens through approach needs to be done.
- Ar. Pramod presented his views on the subject -Material and Construction Studio- He suggested that a small- scale design exercise could be given to the students in order to understand the material in detail. Students must have the feel of the material through hands on training, apart from plates.
- Dr Devyani Gangopadhyay explained the strategy of integrating Materials and Construction with Architectural Design. He explained that the previous semester design proposal may be taken up for detailing in Materials and Construction for the following semester.
- Prof. Meghal, appreciated the idea of making students developing details from their previous semester design.
- Prof. Meghal emphasized on the need to integrate some sense of structure in the Materials and Construction. She proposed that the faculty of Structural Engineering and Architecture must work as a team for better understanding of the students. She proposed that preferably a Practicing Architect who has strong knowledge in Structures may take up Structure.
- Prof.Suresh Kuppuswamy/ internal committee agreed for this suggestion subject to availability of such a resource person.
- **Model making workshop-** Ar. Pramod advised to set up kiln for model making workshop within the campus for more activities.
- The internal committee replied that this proposal was already in the budget and will be carried over.
- Both the external members insisted on the Idea of strengthening infrastructure for workshops.

- Prof. Suresh Kuppaswamy, agreed on the recommendation of the externals and registered that Architectural model making can be dealt not as a separate subject, but can be an integral part of theory and design.
- Prof. Meghal agreed on the above and suggested that the Materials and Construction studio and Structure studio can incorporate model making.
- Prof. Meghal proposed that Architectural Education should stress on computational skills rather Computer skills and proposed that softwares like Sketch up, V-Ray can be learnt by the students themselves and need not be a part of the curriculum.
- Prof.Suresh Kuppaswamy, explained that the students need to equip themselves (based on orientation program on Practical training) for practical training. Hence the computer skills are proposed.
- Prof.Meghal suggested to use” **Design Communication**” to make the student equipped for internship.
- Practical Training- Ar.Pramod suggested that SIST must create relationship with practicing architects so that the students can be referred for Internship.
- Prof. Suresh asked the opinion of externals on having the Professional Training in the 10th semester.
- Ar.Pramod had no objection to this proposal, but Prof.Meghal , preferred the Professional Training in the middle of the curriculum so that the students can benefit from the internship and apply the knowledge gained in their academic exercises.
- Dr. Devyani Gangopadhyay asked for further suggestions on the revised syllabus and curriculum
- Ar. Pramod appreciated that voluminous work has been exercised in revising the syllabus. He pointed out that in few places it has become too much to grasp for a student in the limited period of time. He proposed that Design exercises need not be problem solving and the brief should involve the students to develop the design holistically as his/her contribution.
- Ar. Pramod pointed out that it is more important to articulate the design briefs in a manner which creates more interest within the student and makes the student think out of the box. He also forwarded some interesting Architectural Design Studio methodology to the committee as examples of methodology followed in Design studios practiced by him.
- Ar Pramod suggested that for design evaluation, the faculty members of other classes may be involved as internal jury.
- Prof.Devyani, replied that this practice of involving other faculty members is already in practice and agreed this will be implemented for all semesters.
- Prof.Meghal and Ar. Pramod suggested the same curriculum can be presented to the forthcoming Academic council with incorporation of suggestions made by the members.

Prof. Devyani concluded the meeting with acceptance that all the recommendations and observations of the external members will be carried over and incorporated and consequent BOS meeting shall be convened after incorporating the recommendations. Ar. Shankar delivered the vote of thanks, felicitating the external members.



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(DEEMED TO BE UNIVERSITY)

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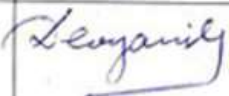
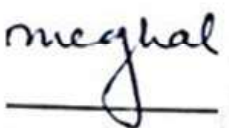
DEPARTMENT OF ARCHITECTURE

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

Board of Studies meeting for B.Arch. held on 30-06-2020

Venue: Virtual meet in ZOOM platform

Members present:

External Members	Signature	Internal Members	Signature
AR. PRAMOD BALAKRISHNAN Chief Architect, Edifice Chennai		DR. DEVYANI GANGOPHAHY Dean & Head Department of Architecture School of Building & Environment	
		DR. SURESH KUPPUSAMY Senior Professor & Design Chair Department of Architecture	
DR. MEGHAL ARYA Associate Professor Faculty of Architecture, CEPT University, Ahmedabad		AR. EBIN HARRISON Associate Professor	
		AR. ARULMALAR.R Associate Professor	
		AR.V. SHANKAR Associate Professor	

The Board of Studies approved the proposed Curriculum and syllabus of Regulation 2020 for B.Arch. course with incorporation of suggestions and feedback given by the external members. The suggestions made by the external members are presented in the minutes of meeting are given below.

Minutes approved by:

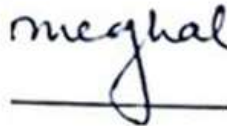
External Members

AR. PRAMOD BALAKRISHNAN
Chief Architect, Edifice
Chennai

Signature



DR. MEGHAL ARYA
Associate Professor
Faculty of Architecture,
CEPT University, Ahmedabad



Internal Members

Signature

DR. DEVYANI GANGOPHAHY
Dean & Head
Department of Architecture
School of Building & Environment



DR. SURESH KUPPUSAMY
Senior Professor & Design Chair
Department of Architecture



AR. EBIN HARRISON
Associate Professor

AR. ARULMALAR.R
Associate Professor



AR.V. SHANKAR
Associate Professor



SATHYABAMA UNIVERSITY
FACULTY OF BUILDING & ENVIRONMENT
DEPARTMENT OF ARCHITECTURE

New courses included in regulations 2015

PREAMBLE

Department of Architecture, Sathyabama University is proud to come out with a new syllabus called Regulations 2015 which will be applicable to students admitted to first year B. Arch students admitted from the academic year 2015 – 2016.

This exercise was carried out under the directions and guidance of Dr. Suresh Kuppuswamy, Design Chair, Dr. Lilly Rose Amirtham, Faculty Head and Dr. Jothilakshmy Nagammal, HoD from July 2014 with the dedicated team of all the faculty members. The ten semesters (5 year) B. Arch degree programme courses presently offered under Syllabus Regulations 2010 were broadly classified under the following categories as core design studios like Architectural Design, Architectural drawing, Art studio etc. Theory cum studio based like Structures and construction, Building construction, Building services etc. and core theory like history, professional practice etc.

For each of the above categories, a senior faculty was appointed as coordinator and a team was constituted under him / her. The mandate given to the team coordinator was to comprehensively review the curriculum and syllabus presently being handled under the Regulations 2010 and based on their experience in imparting knowledge on the subject, each team was requested to present their suggestions.

Periodic review meetings were held by Dr. Suresh Kuppuswamy, Dr. Lilly Rose Amirtham and Dr. Jothilakshmy Nagammal and after a thorough discussion and deliberations a draft curriculum structure and syllabus was prepared in the month of September 2014. The draft proposals were placed before the Board of Studies held on 30th October 2014 constituted especially for the purpose by the eminent members – Dr. Ananthakrishna, Ar. Pramod Balakrishnan and Ar. Meghal Arya who have vast professional and teaching experiences.

The members of Board of Study expressed their sincere appreciation for the attempt by the Department of Architecture in comprehensively reviewing the syllabus and presenting the revisions proposed vide Regulations 2015 and offered valuable suggestions to make the new syllabus more vibrant.

The suggestions given by the members of Board of Studies during the meeting and the follow up by some of them were taken note of. A detailed exercise was once again carried out by the faculty teams to ensure that the valuable suggestions and inputs given by the external members were incorporated in letter and spirit and suitable changes were made to the draft present during the Board of Studies. After this exercise on Curriculum and Syllabus, the exercise on Regulations was carried out meticulously as per the guidelines of the University. The Department of Architecture

had to carry out an elaborate exercise to modify the Regulations 2015 proposed by the University for other courses BE / B.Tech to suit the Architecture Branch with the effective participation from all the senior faculty members this exercise was completed in February 2015.

The Department of Architecture sincerely hopes that this new Regulations and Syllabus 2015 - will be path breaking and strengthen the B. Arch degree programme which will be the foundation for P.G. courses offered by the Department and the Research. It is aimed at making the programme very vibrant and is intended to enable the faculty to ensure that students are imparted the knowledge and skills required by them on completion of the course.

The Department wishes to place on record its sincere thanks to the members of BOS, guest faculty and all the faculty members whom have made this exercise possible. The ensuring note is a summary of some of the important aspects of the new Regulations 2015.

Regulations 2015- Imported changes incorporated in a nutshell:

1. Professional training reduced to one semester (now it is planned during the seventh semester)
2. Examination in Architectural Design dispensed with.
3. Courses are broadly classified under three categories namely theory courses, theory cum studio courses and studio oriented courses.
4. Building construction studios – major restructuring done.
5. Architectural Design Studios – major restructuring done.
6. For each course, course objective, unit distribution, reading materials etc are comprehensively revised and changes incorporated.
7. Regulations – In line with the policy of the University major revisions have been carried out in the regulations.
8. All theory courses become 50 : 50 (which means internal assessment becomes important)
9. All studio courses also restructured. In general the components from external experts carry 50 % weightage and internal assessment carry 50% weightage.
10. Curriculum structure – major revisions incorporated.
11. Choice Based Credit system has been introduced.
12. Major restructuring has been done to the curriculum structure and following is the comparative analysis of the existing (R 2010) curriculum structure.
13. Other than the list of electives offered by the department of Architecture, students are allowed to choose the elective from the list of Faculty of Building & Environment and also from the list of University electives offered by the other Faculties and Departments of the University.

Comparative analysis of Curriculum Structure

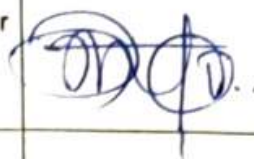
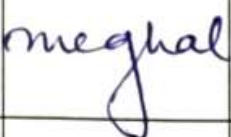
(Note: Courses highlighted in yellow colour are the new courses introduced in the respective semesters)

As per R 2010	As per R 2015	Remarks
Semester I		
Mathematics Applied Mechanics History of Architecture I Theory of Architecture I Introduction to Building Materials Design Studio I Graphics Studio I Art Studio	Mathematics Applied Mechanics Society, culture & environment Building materials Design studio I (Architectural principles I) Architectural drawing I Art studio workshop I	Orientation to direct architecture courses shifted to second semester. Humanities given importance with the aim of making it a foundation. The Major change has come in the form of reducing the number of theories from five to four and clubbing the Architectural principles along with the Design Studio. The art studio has been restructured with choice based elective hands on exercises and workshops.
Semester II		
Structures and Construction I History of Architecture II Theory of Architecture II Environmental Science & Engineering Climatic Factors Building Construction I Design Studio II Architectural Design Examination I Graphic Studio II	Building structures I Vernacular architecture Art and aesthetics Materials & construction I Structures studio I Construction studio I Design studio II (Architectural principles II) Architectural drawing II Art studio workshop II	Core theory has been reduced from four to two and theory cum studio subjects are divided in to separate theory and studio with equal weightage of marks and passing of each has become mandatory. Clubbed the Architectural principles along with the Design Studio and the art studio has been restructured with choice based elective hands on exercises and workshops. Architectural design examination is dispensed with.
Semester III		
Structures and Construction II History of Architecture III Indian vernacular architecture Building Services I Climatic Design Building Construction II Design Studio III Computer Studio	Building structures II History of Architecture I Building Services I Site planning and analysis Climatology Materials & construction II Structures studio II Construction studio II Design studio III	History of architecture is introduced from the third semester only. Site planning advanced to third semester. Computer studio shifted to fourth Semester. Climatology addresses the role of climate in shaping the climate responsive built form.

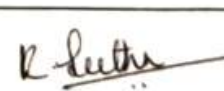
Semester IV		
Structures and Construction III History of Architecture IV Specification & Estimation Site Planning Building Services II Building Construction III Design Studio IV Architectural Design Examination II	Building structures III History of Architecture II Building Services II Climatic design Materials & construction III Structures studio III Construction studio III Design studio IV Computer studio I	Architectural design examination is dispensed with. Climatic design integrates the climate data in the built forms.
Semester V		
Structures and Construction IV History of Architecture V Theory of Design Interior Design Building Services III Building Construction IV Design Studio V	Building structures IV History of Architecture III Building Services III Urban Communities and behaviour Materials & construction IV Structures studio IV Construction studio IV Design studio V Computer studio II	Interior Design is offered as an elective. Urban communities and behaviour addresses the basic concepts /theories of Psychology relevant to architecture and relationship between man and environment
Semester VI		
Structures and Construction V Contemporary Architecture Introduction to Human Settlements Elective I Building Services IV Building Construction V Design Studio VI Architectural Design Examination	Building structures V Modern architecture Building Services IV Theories of thinking Materials & construction V Structures studio V Construction studio V Design studio VI	Contemporary architecture shifted to eighth semester and the title changed as Contemporary directions in architecture. Theory of design renamed as Theories of thinking.
Semester VII		
Urban Housing Steel in Architectural Design Urban Design Project Management Elective II Elective III Design Studio VII Working Drawing Studio	Professional training Educational tour	Professional training Introduced. Project management is offered as an elective
Semester VIII		
Design Studio VIII Educational Tour Synopsis	Introduction to landscape architecture Specification and estimation Urban design Construction management Contemporary directions in architecture Elective II	Introduction to landscape Architecture is offered as a core. Specification and estimation is offered in the Eighth Semester. Construction management is introduced as a core.

	Design studio VII	
Semester IX		
Design Studio IX Pre Thesis Study	Professional practice and ethics I Architectural conservation Urban and regional planning Elective III	Architectural Conservation ,Urban and Regional Planning Introduced as core course
	Design studio VIII Dissertation & Pre thesis	
Semester X		
Professional Practice Elective IV Elective V Design Studio X (THESIS)	Professional practice and ethics II Elective IV Thesis	One Theory Course off Loaded.
Electives		
Elective I Environment and Behaviour Sustainable Architecture Design for Disaster Management	Group I Architectural journalism Architectural photography Film set & temporary structure design Biomimicry Interior design Critical thinking	Elective I &II is offered in the sixth and eighth Semester.
Elective II Facilities Management Introduction to GIS and Remote Sensing Urban and Regional Planning	Group II Digital architecture Facilities planning Energy efficient architecture Construction systems Project management	
Elective III Landscape Design Environmental Planning and Design Architectural Conservation		
Elective IV Construction Management Advanced Construction Techniques Structural Systems		
Elective V Architectural Journalism Architectural Anthropology Contemporary Process in Architecture		

Members present during the Board of Studies Meeting on 30-10-2014

External Members	Signature	Internal Members	Signature
DR. K.S. ANANTHA KRISHNA Professor and Director of. R V College of Engineering, Bangalore		DR. SURESH KUPPUSWAMY Senior Professor & Design Chair Faculty of Building & Environment,	
Dr. SATYANARAYANA K N Professor Building Technology and Construction Management Division, IITM, Chennai		DR.A.LILLY ROSE Professor & Faculty Head Faculty of Building & Environment,	
AR.MEGHAL ARYA Associate Professor, CEPT Univeristy,Ahmedabad		DR.N.JOTHILAKSHMY Professor & Head Department of Architecture Faculty of Building & Environment	
AR. PRAMOD BALAKRISHNAN Chief architect, Edifice Architects & Interior Design, Chennai			

Other Members present in the meeting

S.No	Name and Designation	Signature
1.	EBIN HARRISON.B. ASSOCIATE PROFESSOR.	
2.	P. Anukumar Associate Professor	
3.	K. SURESH BABU ASSOCIATE PROFESSOR	
4.	K. SEETHA VISALAKSHI - LECTURER	
5.		
6.		