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दुरध्वनी (ईपीएबीएक्स) २६०९००० (अभ्यास मंडळे विभाग— २६०९०९४)
फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३.e-mail:bos@unishivaji.ac.in

Estd. 1962
NAAC 'A' Grade
MHRD-NIRF- 28ᵗʰ Rank

Ref.No. SU/BOS/Sci & Tech/   No 0 8 0 5 –   **Date: 23/09/2019**
           2 4 SEP 2019

To,

The Principal,
All affiliated Engineering College,
Shivaji University,
Kolhapur.

Subject:-Regarding Guidelines and Regulations of Bachelor of Architecture (B. Arch.) CBCS under Faculty of Science & Technology.

Sir/Madam,

      With reference to subject mentioned above, I am directed to inform you that the university authorities has accepted and granted approval to the Bachelor of Architecture (B. Arch.) CBCS Guidelines and Regulations under Faculty of Science & Technology.

      The Guidelines and Regulations will be implemented from academic year 2019-20 onwards. A soft copy of containing Guidelines and Regulations is enclosed herewith and as well as it is also made available on website www.unishivaji.ac.in (Online syllabus)

      You are therefore, requested to bring this to the notice of all students and teachers concerned.

      Thanking you,

                                  Yours faithfully,

                                  Deputy Registrar

Encl:- As above
Copy to:

1	The Dean, Faculty of Science & Technology	7	Computer Centre
2	The Chairman, Respective Board of Studies	8	Affiliation Section (T.1)
3	Director, Examination and Evaluation	9	Affiliation Section (T.2)
4	Eligibility Section	10	P.G.Admission Section
5	O.E. – 4	11	P.G Seminar Section
6	Appointment Section	12	Meeting Section

Shivaji University, Kolhapur
Regulations and Guidelines
Choice Based Credit System (CBCS)
Bachelor of Architecture (B. Arch.) Program
Under the Faculty of Engineering & Technology
(To be implemented from Academic Year 2019-20)

Introduction:-

This syllabus is prepared with a view to establish a good overall base for Architecture as a Profession. The Students are also introduced to other technologies with which he/she will come in contact during his future career. He/she specially learns Structural Design which is inseparable from Architecture, in such a way that he/she can design smaller build spaces on his /her own and can have intelligent teamwork with the structural engineer, so that there is joint evolution of the final product. He/she is also given basic knowledge in subject like Interior Design, Landscape Architecture, Urban and Rural planning and valuation, Sustainable Architecture. This will enable him/she to develop specialization in any of these subjects. The syllabus is based on guidelines as prescribed by the Council of Architecture time to time.

An overall review of the syllabus should be taken every five to ten years, so as to have scope for revision and updating of syllabus in light of experience and to be in tune with the changing values and technology.

The Institution should specially arrange visits to works under construction at different stages and to be completed building, during which, the students should be trained to observe construction operations with open eyes and have a dialogues with the occupants of the buildings about total experience to design quality in the completed buildings.

The Institution may undertake a very few selected commissions for designing of architectural buildings and architectural research and involve the senior students and the teaching staff during the design process. Regular supervision and preparation of sample bills as part of study can be done.

The student, with aid of the teaching staff, is expected to study relevant ISI standard, NBC concurrently with the subject.

It must be remembered that this complete course forms a base only and that architecture with all its branches and specialized subjects is a continuing education throughout the Architect's career.

The institution may take more lectures, if they feel so, in the interest of the students with local level issues. The Institutions may change the number of lecture from one subject to the other at its

discretion, within the limits laid down by the Council of Architecture, lecture and studio periods may also be interchanges.

Several books on relevant subjects have been recommended for reading. It should be noted that the list is not complete in itself; not that all the books are to be studies. The students can browse through these and other books and study relevant portions in details. Books are also available dealing in details on each type of building. The Institution is recommended to keep such books in its library which the student can refer while solving problems in Architectural Design for particular type of buildings.

PROGRAM EDUCATIONAL OBJECTIVES [PEO]-

1.**Theoretical Base**–To establish strong theoretical base and understanding of Architecture and work of an architect.

2.**Knowledge and Skills**–To inculcate design sensitivity and ability, as well as knowledge in the domains of humanities, technology &art and impart skills so as to equip the graduate student to undertake work of an architect.

3.**Values** - Sensitize the students to the universal values of equity, environmental care, accessibility, and respect for heritage and equip them to address these through design.

4.**Research** -Train the students to methodically research a issue or a situation to find a creative solution to meet the contextual challenges in the realm of changing technologies, socio economic and cultural changes.

5.**Practice and Ethics**- To enable the students to practice as architects and imbibe them with the knowledge of the professional practice and ethics.

6.**Changes and Diversification**- To expose the students to the changes in architectural practice, diversifications and evolving role of an architect.

PROGRAM OUTCOMES [PO]

1.**Knowledge** -Understanding about role of various knowledge domains such as humanities, technology, and environment in design of built environment.

2.**Principles & Theory**- Knowledge of principles of architecture & theoretical knowledge and its application in design.

3.**Creativity** - Creative and design thinking ability.

4.**Practice** - Ability to understand real life situation of Architectural Practice and to work with ethical and professional responsibilities.

5.**Collaborative Working** -Ability to communicate effectively and work in interdisciplinary groups.

6.**Inclusivity** -Sensitivity in design for inclusivity, equity, environment, diverse cultures, and heritage.

7.**Technological Knowhow**-Ability to review, comprehend and report technological developments in the profession of architecture and construction.

8.**Ability to choose Area of Specialisation or Practise**- Able to judge one's area of interest and accordingly choose the field of practice.

Guidelines:-

1) **Implementation of Regulations & Guidelines:** The Regulations & guidelines shall be implemented gradually as mentioned below –
   a) B. Arch. Part – I from Academic year 2019-20
   b) B. Arch Part – II from Academic year 2020-21
   c) B. Arch Part – III from Academic year 2021-22
   d) B. Arch Part – IV from Academic year 2022-23
   e) B. Arch Part – V from Academic year 2023-24

2) **Eligibility Criteria:** As per rules and regulations of Council of Architecture / Government of Maharashtra / University applicable from time to time.

3) **Duration and Pattern of program:** The total duration of B. Arch. Program will be of 5 years. The pattern of CBCS will be of Semester type. There shall be 10 Semesters each of 6 months duration.

4) **Weightage**: There shall be 9950 marks for 5 years B. Arch CBCS Program with **259** Credits.
   a) B. Arch **Part – I (Sem I & II) :**
      For B. Arch. Part I total Credits shall be 54 with 27 Credits for each Semester, of these; there shall be 10 Credits for theory and 17 credits for practical per Semester.
      1. **Sem I - SSC : Soft Skill Course :** There shall be an additional compulsory course of 2 Credits (Self Study) for a course of Democracy, Elections and Good Governance which will not be included in total Credits.
      2. **Sem II - SSC : Soft Skill Course :** There shall be an additional compulsory course of 2 Credits (Self Study) for a course of any one from following (i) to (v) (2 Credits) (Self Study)

i) Business Communication & Presentation ii) Event management iii) Personality Development, iv) Yoga & Physical Management v) Resume, Report & proposal writing which will not be included in total Credits. Sem I shall be evaluated for 800 marks and Sem II shall be evaluated for 1050 marks.

b) B. Arch **Part – II (Sem III & IV) :**

For B. Arch. Part II total Credits shall be 56 with 28 Credits for each Semester, of these; there shall be 13 Credits for theory and 15 credits for practical per Semester. Semester III shall be evaluated for 1050 marks and Semester IV shall be evaluated for 1250 marks.

1. As per directives of Supreme Court/ MHRD, a mandatory Course of Environmental Studies must be included in Semester III and IV. Theory paper of 70 marks (University Examination) and 30 marks for the project report is included in total marks which is compulsory to all students. This subject should be treated as over and above the regular curriculum.

c) B. Arch **Part – III (Sem V & VI) :**

For B. Arch. Part III, total Credits shall be 57 with 27 Credits for Fifth Semester and 30 credits for Sixth semester. Of these; for the fifth semester, there shall be 10 Credits for theory and 17 credits for practical and for semester Sixth, there shall be 13 Credits for theory and 17 credits for practical. Semester V shall be evaluated for 1000 marks and Semester VI shall be evaluated for 1300 marks.

d) B. Arch **Part – IV (Sem VII & VIII) :**

For B. Arch. Part IV, total Credits shall be 42 with 27 Credits for Seventh Semester and 15 credits for Eighth semester. Of these; for the Seventh semester, there shall be 10 Credits for theory and 17 credits for practical and for semester Eight, there shall be 15 Credits for practical training. The duration of practical training shall be for 15 weeks. Semester VII shall be evaluated for 1200 marks and Semester VIII shall be evaluated for 200 marks.

e) B. Arch **Part – V (Sem IX & X) :**

For B. Arch. Part V, total Credits shall be 50 with 27 Credits for Ninth Semester and 23 credits for Tenth semester. Of these; for the Ninth semester, there shall be 12 Credits for theory and 15 credits for practical and for semester Tenth, there shall be 7 credits for Theory and 16 credits for practical. Semester IX shall be evaluated for 1100 marks and Semester X shall be evaluated for 1000 marks.

5) SCHEME OF ASSESSMENT.

A candidate to be eligible for the degree of Bachelor of Architecture will be required to appear for and pass examinations as under:

	Semester Numbers	Credits
1	Semester 1	27
2	Semester 2	27
	Total credits for First Year B.Arch.	**54**
3	Semester 3	28
4	Semester 4	28
	Total credits for Second Year B.Arch.	**56**
5	Semester 5	27
6	Semester 6	30
	Total credits for Third Year B.Arch.	**57**
7	Semester 7	27
8	Semester 8	15
	Total credits for Fourth Year B.Arch.	**42**
9	Semester 9	27
10	Semester 10	23
	Total credits for Fifth Year B.Arch.	**50**
	Total credits	**259**

Total Credits of the Course = 259

Colleges may offer the students audit courses one per semester [Sem I to Sem VIII]. The students may choose to opt these courses. The passing in audit courses is by clearance and they are non- credits courses and are not part of the SGPA / CGPA calculation.

6) Standard of Passing:

ASSESMENT AND GRADE POINT AVERAGE

A grade assigned to each head based upon marks obtained by the student in examination of the course.

Table 1
GRADING SYSTEM FOR PASSING HEADS (THEORY AND EXTERNAL VIVA)

Grade	Grade Points	% of Marks Obtained	Remarks
O	10	90-100	Outstanding
A+	9	80-89	Very good
A	8	70-79	Good
B+	7	60-69	Fair
B	6	50-59	Average
C	5	45-49	Below average
F	0	Below 45	Fail

Table 2
GRADING SYSTEM FOR [INTERNAL SESSIONAL and AGGREGATE]

Grade	Grade Points	% of Marks Obtained	Remarks
O	10	90-100	Outstanding
A+	9	80-89	Very good
A	8	70-79	Good
B+	7	60-69	Fair
B	6	50-59	Average
F	0	Below 50	Fail

7) RESULT

Based on the performance of the student in the semester examinations, the Shivaji University will declare the results and issue the Semester grade sheets. The class shall be awarded to a student on the CGPA calculated in rule no. 10(3). The award of the class shall be as per the table no. 3 below.

The result of each Semester shall be declared as Pass or Fail. However, ATKT rules will be followed

AWARD OF CLASS AS PER TABLE NO. 3 BELOW:

Table 3

Marks Obtained	Numerical Grade (Grade Point)		CGPA	Letter Grade
Absent	0 (zero)		-	-
0 – 44	0 (zero)		0.0 – 4.99	F (Fail)
45 – 49	5		5.00 – 5.49	C
50 – 59	6		5.50 – 6.49	B
60 – 69	7		6.50 – 7.49	B+
70 – 79	8		7.50 – 8.49	A
80 – 89	9		8.50 – 9.49	A+
90 – 100	10		9.50 – 10.0	O (Outstanding)

Note:
1. Marks obtained > = 0.5 shall be rounded off to next higher digit.

2. The SGPA & CGPA shall be rounded off to 2 decimal points.

Calculation of SGPA & CGPA

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1. Semester Grade Point Average **(SGPA)**

$$\text{SGPA} = \frac{\sum(\text{Course credits} \times \text{Grade points obtained}) \text{ of a Semester}}{\sum(\text{Course credits}) \text{ of respective Semester}}$$

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2. Cumulative Grade Point Average **(CGPA)**

$$\text{CGPA} = \frac{\sum(\text{Total credits of a Semester} \times \text{SGPA of respective Semester}) \text{ of all Semesters}}{\sum(\text{Total course credits}) \text{ of all Semesters}}$$

For example : Suppose in a given semester a student has registered for five courses having credits C1, C2, C3, C4, C5 and his / her grade points in those courses are G1, G2, G3, G4, G5 respectively,
Then the SGPA would be

$$\text{SGPA} = \frac{C1G1 + C2G2 + C3G3 + C4G4 + C5G5}{C1 + C2 + C3 + C4 + C5}$$

8) Revised Rules - These revised rules will be gradually implemented with effect from the academic year 2019-20 for B.Arch. i.e. Part I to V.

ANNEXURE A : AUDIT COURSES

The student can opt for one audit course in a semester. A student can opt for a particular course from the list below only once and cannot repeat the same course. The courses may be offered based upon the availability of resources in a college. The method of conduct of course could be based on lectures, site visits, small projects, online sources etc. and can be devised by individual colleges. The course outline given is only suggestive and colleges can expand or modify it for enrichment of the course.

Sr. No.	Code	Title	Brief Course Outline
FIRST YEAR B.ARCH. [ANY ONE COURSE TO BE OFFERED PER SEMESTER FROM THE FOLLOWING]			
1	A	Crafts	Introduction to crafts across the world through history. Types of Indian crafts. Study of any one craft of India.
2	B	Creative Writing	Writing as an art. Fictional and non fictional writing. Poetry, short stories, playwriting. Famous Indian writers, poets and play wrights and their works
3	C	Performing Arts	Introduction to performing arts across the world through history. Types of Indian performing arts. Introduction to Natya-Shastra. Classical, folk, traditional performing arts. Dance, Music, Drama, Cinema
SECOND YEAR B.ARCH. [ANY ONE COURSE TO BE OFFERED PER SEMESTER FROM THE FOLLOWING]			
4	D	Foreign Language	Basic introduction to German or Japanese language or a language which a college may choose to offer – syllables, pronunciations, words, simple sentences, grammar.
5	E	Cyber security	Introduction to cyber crime. Types of cyber crimes. Do and don'ts while using computers, smart phones, internet. Security measures to protect from crime. Crime detection mechanism and legislation.
6	F	Yoga	Introduction to Yoga. Benefits of Yoga. Types of yogasanas.
THIRD YEAR B.ARCH. [ANY ONE COURSE TO BE OFFERED PER SEMESTER FROM THE FOLLOWING]			
7	G	Basics of Accounting and Book keeping	Introduction to accounting and various terminologies. Maintaining books of account. Debit and credit.
8	H	Electrical and Book keeping	Basic electrical gadgets in home and offices. Introduction to problems related to electricity supply in home environments. Precautions while handling electrical gadgets and wiring. Mechanism of protection from electrical hazards.
9	I	Culinary Art and Practices	Introduction to the basic need of food. Geographical and cultural factors affecting food. Various cuisines and culinary arts across the world. Social, health, dietary, aspects of cuisines. Food cultures in modern times. Places of food.
FOURTH YEAR B.ARCH. SEM VII AND FIFTH YEAR B. ARCH. SEM IX [ANY ONE COURSE TO BE OFFERED PER SEMESTER FROM THE FOLLOWING]			
10	J	Civics	Constitution of India, Indian democracy, Citizenship and rights and responsibilities of citizens. Legislative framework.
11	K	Right to Information	Right to Information Act in India. Its need, scope and significance. Use of right to information. Responsibilities of using RTI. Limitations of using RTI. Case studies and legal precedents of using RTI.
12	L	Sign Language	Introduction to need and significance of inclusive social environment. Communication with the persons who have hearing and speech disabilities. Learning sign language.