

Punyashlok Ahilyadevi Holkar Solapur University, Solapur



NAAC Accredited-2015
'B' Grade (CGPA 2.62)

Name of the Faculty: Science & Technology

CHOICE BASED CREDIT SYSTEM

Syllabus: Bachelor of Architecture

Name of the Course: B. Arch V (Sem.– IX & X)

(Syllabus to be implemented from w.e.f. June 2020)

PAH SOLAPUR UNIVERSITY , SOLAPUR
Faculty of Science & Technology
Choice Based Credit System structure of Fifth Year B.Arch W.E.F. 2020-2021

Semester IX

	Course Name	Hrs./Week		Credits	Examination Scheme						
		L	P/S		ISE		ESE		ICA		Total
					Max.	Min.	Max.	Min.	Max.	Min.	
<i>Subject code</i>	<i>Studio / practical / oral</i>										
AR9-01	PROFESSIONAL TRAINING	-	40	20	---	--	200	90	200	100	400
	Total	-	40	20	---	--	200	--	200	--	400
	Grand Total	-	-	-	-	-	200	-	200	-	400

Abbreviations: L- Lectures, P/S-Practicals / Studios, ISE- In Semester Exam., ESE - End Semester exam, ICA- Internal Continuous Assessment

Note : ISE -Internal Tests , ESE - University Theory/ Oral examination

PAH SOLAPUR UNIVERSITY, SOLAPUR

Faculty of SCIENCE & Technology

CHOICE BASED Credit System structure of Fifth Year B.Arch W.E.F. 2020-2021

Semester X

	<i>Course Name</i>	<i>Hrs./Week</i>		<i>Credits</i>	<i>Examination Scheme</i>						
		<i>L</i>	<i>P/S</i>		<i>ISE</i>		<i>ESE</i>		<i>ICA</i>		<i>Total</i>
					<i>Max.</i>	<i>Min.</i>	<i>Max</i>	<i>Min.</i>	<i>Max.</i>	<i>Min</i>	
<i>Subject code</i>	<i>Studio / practical / oral</i>										
AR10-01	STRUCTURAL THESIS	-	10	5	---	--	100	45	100	50	200
AR10-02	PROJECT - III	-	10	5	---	--	200	90	200	100	400
	Total	-	20	10	---	--	300	--	300	--	600
	Grand Total	-	-	-	-	-	300		300		600

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PAH SOLAPUR UNIVERSITY, SOLAPUR

FACULTY OF SCIENCE AND TECHNOLOGY

CHOICE BASED CREDIT SYSTEM STRUCTURE OF B.ARCH. W.E.F.2020-2021

CONVERSION OF MARKS INTO GRADES				
Sr.No.	Range of Marks	Grade	Grade Point	Description of Performance
1	80 onwards	O	10	EXCELLENT /OUTSTANDING
2	70-79	A+	9	VERY GOOD
3	60-69	A	8	GOOD
4	55-59	B+	7	FAIR
5	50-54	B	6	ABOVE AVERAGE
6	45-49	C+	5	AVERAGE
7	<45	F	0	FAIL
8		XX	0	DETAINED
9		DR		DROPPED OUT

CONVERSION OF AVERAGE GRADE POINTS INTO GRADES		
Sr.No.	SGPA/CGPA	Grade
1	9.5-10	O
2	8.5-9.49	A+
3	7.5-8.49	A
4	6.5-7.49	B+
5	5.5-6.49	B
6	4.5-5.49	C+
7	<4.49	F

NOTE

1. THE PASS PERCENTAGE SHALL NOT BE LESS THAN 45% IN EACH SUBJECT .

2.THE PASS PERCENTAGE SHALL NOT BE LESS THAN 50% IN THE AGGREGATE FOR THE ACADEMIC YEAR.

A CANDIDATE WHO FAILS TO SECURE MINIMUM 50% MARKS IN THE AGGREGATE FOR THE ACADEMIC YEAR, SHALL APPEAR FOR THE IMPROVEMENT EXAM ,ONLY IN UNIVERSITY THEORY EXAM.

IX SEM

AR9- 01: PROFESSIONAL TRAINING

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture - L	-- ----	-- ----	Theory Exam -		Practical / Oral Exam		Total
Practical Training with COA Registered Architect P/S	40	20	ISE	ESE	ICA	ESE	
Total	40	20	--	--	200	200	400

Objective:

The purpose of this study is to expose students to the practices carried out in an Architect's office.

Starting from the conceptual drawings and to end up with the all working details on the same which could be carried out for execution.

Here student shall learn practical application of knowledge acquired by him through the process of curriculum.

Scope :

The purpose of training is to learn.

1. Day to day working of an Architect's office,
2. Correspondence with various agencies and client,
3. Working drawings and site visits,
4. Legal approval drawings and procedure with various government authorities

Instructions:

1. The students are required to gain practical experience for 16 weeks. He/she should try to get his/her training in a registered (COA) Architects office.
2. The Log book and work done (in the form of Sheets A3 min.) by the students in the architects office should be submitted in two copies to the College for their external exams.
3. The student should attend the office regularly and work full-time and should follow the discipline and duty hours of the organization. He/she is also expected to keep his/her eyes open and observe general working of the office as a whole. His/her minimum attendance in the office should be 75% of the full working days which should work out 96 days minimum.
4. During this period, the student will maintain a log-book as prescribed and it shall be countersigned by the principal architect of that office along with the professor-in-charge. The candidate is expected to work in an office or on work site during this period, in accordance with the discipline of the organization where he/she is working.

The candidate will enroll himself at the college by paying his/her full fees and the successful completion of his/her period will be certified by the principal of the College based on his/her progress recorded in his/her log-book.

5. If a student feels that he/she is not getting proper training in an office, then with the permission of the Principal, he/she may go for training in some other office without break and give due intimation of at least a fortnight to the original office.
6. On successful completion of the practical training viva-voce will be conducted jointly by one internal and two external examiner on the training he/she has undergone and the report submitted by the student.
7. Proforma of Report:
 - Name of the Student:
 - Academic year:
 - Name of Office/Organisation:
 - Date of Joining :
 - Date of Leaving :
 - Employer's Report:
 - Employer's opinion about student's training:
 - Any suggestions by the Employer:
 - Signature of the Employer Signature of the Student
 - Sessional work based on above topics.
8. One copy of syllabus for this subject should be made available to the employer.
9. Students should submit joining letter and completion letter within 15 days of the respective academic schedule.

AR10- 01 : STRUCTURAL THESIS

Teaching Scheme Per week		Credit	Examination Scheme					
Lecture - L	-- ----		-- ----	Theory Exam -		Practical / Oral Exam		Total
Practical/Studio	P/S	10	5	ISE	ESE	ICA	ESE	
Total		10	5	--	--	100	100	200

Objective:

To provide skills in the design of RCC structure using all the knowledge acquired in the structural subjects of previous semesters.

Outline:

student should be given assignments in the class to design the RCC structural elements of one G+2 storey frame structure.

Or

Design the structural steel elements of any structural steel building.

Structural design shall be done by using Indian standards code book.

Students are expected to interact with Structural Consultant with respect to his/her project.

Submission:

The final output shall include a report including all design data, analysis and structural design along with structural drawings.

Spiral bound hard copy of the report should be submitted.

AR10- 02 : PROJECT – III

Teaching Scheme Per week		Credit	Examination Scheme					
Lecture - L	-- ----		-- ----	Theory Exam -		Practical / Oral Exam		Total
Practical/Studio	P/S	10	5	ISE	ESE	ICA	ESE	
Total		10	5	--	--	200	200	400

Objective:-

To demonstrate an ability to comprehend the nature of architectural problem & create a brief which sets the frame work for design.

To demonstrate an advanced level design ability.

Outline:

Students are expected to develop their conceptual designs, campus design and detail working plans, services layout, elevations, sections, 3-D, view etc. for the project finalized in semester VII and VIII.

Developing the concepts into full fledged technical design plans and revising it at every stage with the help of respective guides and application of various subject studied in the previous semesters

SUBMISSION REQUIREMENTS:-**A - DISSERTATION (BOOK)**

The typewritten dissertation must be presented in neatly bound 3 copies, two copies of which will be retained by the college and one returned to the candidate. The size of the dissertation volume must be A4 size on sunlit bound or equivalent paper with standard binding in black or brown cloth and embossed title on top and preferably on the spine.

The printed blank page of the certificate which will be supplied by the College will be bound along with other typewritten pages in the beginning of the dissertation. This will be certified and signed by the College authorities as authentication of the work and by the guide who has guided the work.

The index page must contain the following sequence and paging the volume must follow this sequence.

1. Introduction (the why & what of the project)
2. Synopsis
3. Research
4. Case Studies (3 total, 2 live & 1 book)
5. Site selection
6. Design Programme (Requirement listing)
7. Programme analysis

8. Site analysis
9. Data collection
10. Photocopies of conceptual drawings & block/concept model
11. reduced size Xerox or photocopies of final drawing (if legible) or prints neatly folded
12. photographs of model of the project

B. DRAWING REQUIREMENT

- a) Sheet work from VII th and VIII th SEM. With remarks and assessment from the guides concerned
- b) site analysis , Site plan, site sections, plot area calculation, climatic data,.
- c) All Floor plans & detailed plans.
- d) Sections through site, building, toilets , staircases, lift necessary cross sections, etc.
- e) Elevations with façade details .
- f) Details of services like water supply , Rain Water Harvesting , drainage, Sewage Treatment plan, fire retarding and extinguisher, electrical layout etc.
- g) 3d Views - Walk through
- h) Models along with site development.
- i) Conceptual structural layout of building