Criterion 1 – Curricular Aspects (100)
Key Indicator - 1.2 Academic Flexibility (30)

1.2.1Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

1.2.1.1. Number of Programmers in which CBCS/ Elective course system implemented.

- Name of all Programmes adopting CBCS- **B.ARCH (BACHELOR OF ARCHITECTURE)**
- Name of all Programmes adopting elective course system- **B.ARCH (BACHELOR OF ARCHITECTURE)**

$$\text{Formula: } \frac{\text{Number of Programmes in which CBCS or elective course system implemented}}{\text{Total number of Programmes offered}} \textbf{ X 100}$$

Formula: Bachelor of Architecture X 100

Bachelor of Architecture

1/1*100= 100%

Sr. No	Description
1	List Of Elective
2	Scheme of exams , marks and syllabus
3	Student Mark sheets
4	Elective Selected and Signed By Students
5	Notice

LIST OF ELECTIVE SUBJECTS			
S.No.	**SEMESTER**	**CODE**	**SUBJECT NAME**
1	5	05FEAR05	FUNDAMENTALS OF ARCHITECTURAL DESIGN
2	5	05FEAR05	LANDSCAPE ARCHITECTURE
3	5	5FECE05	EARTHQUAKE ENGINEERING
4	6	06FEAR05	CLIMATE RESPONSIVE ARCHITECTURE
5	6	06FEAR05	SUSTAINABLE ARCHITECTURE
6	6	06FECE05	DISASTER MANAGEMENT
7	8	08AR06	HOUSING
8	8	08AR06	ENVIRONMENTAL PLANNING
9	8	08AR06	CONSTRUCTION MANAGEMENT
10	10	10AR01	CLIMATE RESPONSIVE ARCHITECTURE
11	10	10AR01	VERNACULAR ARCHITECTURE
12	10	10AR01	INDUSTRIAL ARCHITECTURE

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FIVE YEAR DEGREE COURSE IN BACHELOR OF ENGINEERING

BRANCH OF ARCHITECTURE - SEMESTER PATTERN (CREDIT GRADE SYSTEM)

SEMESTER : FIFTH

Appendix - H

			TEACHING SCHEME					EXAMINATION SCHEME								
			HOURS / WEEK					THEORY					PRACTICAL			
Sr. No.	Subject Code	Subject	Lecture	Tutorial	P/D	Total HOURS/WEEK	CREDITS	DURATION OF PAPER (Hr.)	MAX. MARKS THEORY PAPER	MAX. MARKS COLLEGE ASSESMENT	TOTAL	MIN. PASSING MARKS	MAX. MARKS EXTERNAL	MAX. MARKS INTERNAL	TOTAL	MIN. PASSING MARKS
THEORY																
1	05AR01	Building Materials & Construction - V	3	..	..	3	3	4	80	20	100	40	..	..	..	..
2	05AR02	Building Services & Equipment	3	..	..	3	3	4	80	20	100	40	..	..	..	..
3	05AR03	Architectural Structure - IV	2	1	..	3	3	3	80	20	100	40	..	..	..	..
4	05AR04	Specification	2	..	..	2	2	3	80	20	100	40	..	..	..	..
5	05FEAR05	Free Elective -I	3	..	..	3	3	3	80	20	100	40	..	..	..	..
SESSIONAL / PRACTICAL																
6	05AR06	Architectural Design Studio - V	..	..	6	6	6	..	..	..	..	..	75	75	150	75
7	05AR07	Building Materials & Construction Studio - V	..	..	4	4	2	..	..	..	..	..	25	25	50	25
8	05AR08	Interior Design -I	..	..	2	2	1	..	..	..	..	..	25	25	50	25
9	05AR09	Working Drawing - II	..	..	4	4	2	..	..	..	..	..	25	25	50	25
		TOTAL	13	1	18	30	25				500				300	
														TOTAL		800

Note: Consider one hour Lecture / Tutorial and P/D is equal to one credit for the subjects of Architectural Design and for all other subjects consider 1hour Lecture & Tutorial = 1credit & 2hour Practical /Design studio. = 1 credit.

05FEAR05 FREE ELECTIVE
(1) FUNDAMENTALS OF ARCHITECTURAL DESIGN

Objective: The prime objective of this course is to introduce architectural design as a process and as a final product , to understand fundamentals of space, form and order through basic perception of architectural skills.

Unit I: Introduction to Architecture. Definition of Architecture, design art, fine art, visual art.

Unit II: Principles of two dimensional design elements, such as point, line, direction, shape, size, colour and texture, levels, light, fenestrations.

Unit III: Aesthetic components of design- proportions, scale, balance, rhythm, symmetry, asymmetry, hierarchy, pattern and axis with building examples.

Unit IV: Harmony and contrast in 2D and 3D design, interplay of light and shade on building blocks and their effects.

Unit V: Form and functions in Architecture, use of building materials, construction techniques and engineering services for different functions.

Unit VI: Architectural design process- an analysis- integration of aesthetic and functional utility of spaces.

Sessional work: Assignments, tests, and tutorials on the above topics

Suggested text books:

1. Ching, F.D.R.: Form, Space and Order, Van Nostrand Rheinhold, New York (1979).
2. Parmar V.S.: Design Fundamentals in Architecture, Somoiya Publications, Bombay (1973)

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05FEAR05 FREE ELECTIVE
(2) LANDSCAPE ARCHITECTURE

Objective: To expose students the role of landscape elements in the planning of parks, gardens, open fields, etc.

Unit I: Introduction to Landscape Architecture. Understanding man and nature , land and landscape, relationship of Architecture and Landscape Architecture.

Unit II : History of the art of garden design of India, China, Persia, Japan, Italy, France and England.

Unit III: Garden design of the modern world.

Unit IV: Ecological and environmental aspects of Landscape Design.

Unit V: Basic principles of landscape design , elements and its applications.

Sessional work :Assignments, tests, and tutorials on the above topics

References:

1. Sylvia Crowe Sheila Haywood, The Gardens of Mughal India , Vikas Publishing House, Pvt. Ltd, India, Delhi,1973.
2. Garrett Eckbo, The Art the Home Landscaping, McGraw-hill Book Co., London, 1956.
3. Testsuro Yoshida, Gardens of Japan, Jr. Marcus G. Sims, 1963.
4. Sir Banister Fletcher, A History of Architecture , University of London, The Antholone press, 1986.
5. Percy Brown, Indian Architecture (Islamic period), Taraporevala and Sons, Bombay, 1983tt
6. Satish Grover, The Architecture of India (Buddhist and Hindu Period), Vikas Publishing Housing Pvt. Ltd., New Delhi, 1981
7. Christopher Tadgelli, The History of Architecture in India from the Dawn of Civilization to the end of Raj, Longman group, U.K.Ltd., London, 1990

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FOUR YEAR DEGREE COURSE IN CIVIL ENGINEERING
SEMESTER PATTERN (CREDIT GRADE SYSTEM)
SEMESTER - FIFTH

Appendix - A

			TEACHING SCHEME					EXAMINATION SCHEME								
			HOURS / WEEK					THEORY					PRACTICAL			
Sr. No.	Subject Code	Subject	Lecture	Tutorial	P/D	Total HOURS/WEEK	CREDITS	DURATION OF PAPER (Hr.)	MAX. MARKS THEORY PAPER	MAX. MARKS COLLEGE ASSESMENT	TOTAL	MIN. PASSING MARKS	MAX. MARKS EXTERNAL	MAX. MARKS INTERNAL	TOTAL	MIN. PASSING MARKS
THEORY																
01	5CE01	Reinforced Cement Concrete-II	3	1	-	4	4	4	80	20	100	40	-	-	-	-
02	5CE02	Fluid Mechanics-II	3	1	-	4	4	3	80	20	100	40	-	-	-	-
03	5CE03	Building Planning & CAD	2	-	-	2	2	4	80	20	100	40	-	-	-	-
04	5CE04	Surveying-II	4	-	-	4	4	3	80	20	100	40	-	-	-	-
05	5FECE05	Free Elective-I	3	-	-	3	3	3	80	20	100	40	-	-	-	-
06	5CE06	Communication Skills	2	-	-	2	2	2	40	10	50	20	-	-	-	-
PRACTICALS / DRAWING / DESIGN																
07	5CE07	Fluid Mechanics-II - Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
08	5CE08	Building Planning & CAD-lab	-	-	4	4	2	-	-	-	-	-	25	25	50	25
09	5CE09	Surveying-II - Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
10	5CE10	Communication Skills-Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
		Total	17	2	10	29	24				550				200	
															GRAND TOTAL : 750	

Free Elective I : (i) Introduction To Earthquake Engineering (ii) Basics of Building Construction (iii) Watershed Management

5FECE05: FREE ELECTIVE-I

(i) INTRODUCTION TO EARTHQUAKE ENGINEERING

SECTION A

Unit-I: Interior of earth, Engineering geology of earthquakes, plate tectonics, Seismicity of the world, tectonics features of India, Faults, Propagation of earthquake waves .

Unit-II: Quantification of earthquake (magnitude, energy, intensity of earthquake), Measurements of earthquake (accelerograph,

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accelerogram recording), Determination of magnitude, Epicenter distance, Ground motion and their characteristics, Factors affecting ground motions.

Unit-III: Guidelines for achieving efficient seismic resistant planning, selection of sites, importance of architectural features in earthquake resistant buildings

SECTION B

Unit-IV: Projections & suspended parts, special construction features like separation of adjoining structure, crumble section, stair case etc, twisting of building, seismic effects on structures, inertia forces, horizontal & vertical shaking.

Unit-V: Behavior of masonry structure during earthquake, bands & reinforcement in masonry building opening in walls, importance of flexible structures,

Unit-VI: Behavior of R.C. building in past earthquakes. Concept of earthquake Resistant design, Introduction to IS: 1893

Reference Books:

1 Duggal S. K., Earthquake Resistant Design of Structures, Oxford University Press 2007

2. Amita Sinvhal; Understanding Earthquake Disasters, Tata McGraw Hill

3. P. N. Agraval; Engineering Seismology Oxford & IBH Publishing

4. C.V.R.Murty; Earthquake Tips National Information Centre of Earthquake Engineering 11 T Kanpur

5. Pankaj Agrawal & Manish Shrikhande ; Earthquake Resistant Design of Structures Prentice- Hall of India

FIVE YEAR DEGREE COURSE IN BACHELOR OF ENGINEERING
BRANCH OF ARCHITECTURE - SEMESTER PATTERN (CREDIT GRADE SYSTEM)

Semester : Sixth

THEORY																	
1	06AR01	Architectural Design - VI	2	..	..	2	2	18	150	..	150	60	..	..	..	..
2	06AR02	Building Materials & Construction - VI	3	..	..	3	3	4	80	20	100	40	..	..	..	..
3	06AR03	Architectural Structure - V	2	1	..	3	3	3	80	20	100	40	..	..	..	..
4	06AR04	Estimate & Costing	3	..	..	3	3	3	80	20	100	40	..	..	..	..
5	06FEAR05	Free Elective-II	3	..	..	3	3	3	80	20	100	40	..	..	..	..
6	06AR06	Acoustics & Illumination	3	..	..	3	3	3	80	20	100	40	..	..	..	..
SESSIONAL / PRACTICAL																	
7	06AR07	Architectural Design Studio - VI	..	..	6	6	6	..	..	..	..	..	75	75	150	75
8	06AR08	Building Materials & Construction Studio - VI	..	..	4	4	2	..	..	..	..	..	25	25	50	25
9	06AR09	Interior Design -II	..	..	2	2	1	..	..	..	..	..	25	25	50	25
		TOTAL	16	1	12	29	26				650				250	
														TOTAL		900

Free Elective-II (1) Climate Resonsive Architecture (2) Sustainable Architecture

Noet : Students will have to opt the free electives offered from other courses of their college / Institution / University Department

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06FEAR05 FREE ELECTIVE .

(1) CLIMATE RESPONSIVE ARCHITECTURE.

Objective: The course aims to understand the various features to be considered for planning and designing of climate responsive built and un-built spaces.

UNIT-I : Introduction of Sun – Earth relationship and its impact on earth surfaces. Thermal balance of Earth, Tropical Zones on earth surfaces.

UNIT-II : Human comfort through body metabolisms, heat gain and heat loss , thermal balance of body, clothing pattern its effect on body.

UNIT-III: Climatic factors and climatic elements. Importance of climatic factors to create micro and macro climatic conditions.

UNIT-IV: Introduction of planning, designing, materials and techniques considered in traditional structures with respect to climate.

UNIT-V: Solar charts, types of shading devices, shadow angles and its use.

UNIT-VI: Planning and design of building in hot and dry climates.

Sessional work ; Assignments and test on the above topics.

References:

1. O.H.keonigsberger; T.G. Ingersoll and others; Manual of tropical housing and building- Part-I; Longmans,London-1980
2. M. Evans; Housing, climate and comfort; Architectural press London- 1980
3. B.G.Givoni; Man,climate,and architecture; Applied science, banking, Essex, 1982
4. N.K Bansal and others; Passive building design; Elsevier science- 1994.
5. S.Drake; The third skin architecture,technology and environment;UNSW –press-2007.

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06FEAR05 FREE ELECTIVE

(2) SUSTAINABLE ARCHITECTURE.

Objective: To sensitize students about the importance and need for Sustainable Planning concept with respect to conservation of Environment.

UNIT-I: Introduction to the ideas, issues and concepts of Sustainable Architecture, global environment and the built environment, principles of environmentally and ecologically supportive architecture.

UNIT-II: Study of sustainable architecture in context with resource efficiency viz. Land , Water, Energy, Materials, Human resources,. Biodiversity , health and global environment related to constructions and operation of buildings.

UNIT-III: Appropriate materials and constructions to maintain sustainability. Eco friendly construction practices – sustainable campuses and case studies.

UNIT-IV: Sustainable and conservation practices, water conservation, sewerage treatment, solid waste treatments, economics and managements.

UNIT-V: Low energy design, hybrid system, modeling and simulation of energy system, integration of P.V. and wind system in the building, wind, solar and other non-conventional energy systems.

UNIT-VI: Climatic factors and sustainability.

Sessional work : Assignments and test on the above topics.

References:

1. O.H.keonigsberger; T.G. Ingersoll and others; Manual of tropical housing and building- Part-I; Longmans,London-1980
2. M. Evans; Housing, climate and comfort; Architectural press London- 1980
3. B.G.Givoni; Man,climate,and architecture; Applied science, banking, Essex, 1982
4. N.K Bansal and others; Passive building design; Elsevier science- 1994.
5. S.Drake; The third skin architecture,technology and environment;UNSW–press-2007.

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FOUR YEAR DEGREE COURSE IN CIVIL ENGINEERING
SEMESTER PATTERN (CREDIT GRADE SYSTEM)

SEMESTER : SIXTH																		
THEORY																		
01	6CE01	Numerical Methods & Computer Programming	4	-	-	4	4	3	80	20	100	40	-	-	-	-	-
02	6CE02	Structural Design-I	4	-	-	4	4	4	80	20	100	40	-	-	-	-	-
03	6CE03	Water Resources Engineering-I	3	-	-	3	3	3	80	20	100	40	-	-	-	-	-
04	6CE04	Transportation Engineering-II	3	1	-	4	4	3	80	20	100	40	-	-	-	-	-
05	6FECE05	Free Elective-II	3	-	-	3	3	3	80	20	100	40	-	-	-	-	-
06	6CE06	Estimating & Costing	3	1	-	4	4	4	80	20	100	40	-	-	-	-	-
PRACTICALS / DRAWING / DESIGN																		
07	6CE07	Numerical Methods & Computer Programming - Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25		
08	6CE08	Structural Design-I - Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25		
09	6CE09	Estimating & Costing-Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25		
10	6CE10	Minor Project - Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25		
		Total	18	2	10	30	26				600				200			
GRAND TOTAL : 800																		

Free Elective II : (i) Disaster Management (ii) Environmental Management

Note: Students will have to opt the Free Electives offered from other courses of their College / Institution / University Department.

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6FECE05 : FREE ELECTIVE-II

(i) DISASTER MANAGEMENT

SECTION – A

Unit I: What is disaster, types, damage caused, pre-disaster preparedness, post-disaster preparedness, early warning strategies, National disaster management guidelines, role of NGO'S in disaster management.

Unit II: Principles of emergency management, crisis management, International organizations such as Red cross, United Nations, European Union, Indian organizations, Natural hazards in coastal states in India, what is Tsunami, its characteristics.

Unit III: Monsoon in India, its calculations, flood hazard in India. Regions of country prone to floods, flash floods, damages caused due to floods, Do's and Don'ts in Earthquake.

SECTION - B

Unit IV: Application of remote sensing in disaster management, flood forecasting and warning in India, coordination of central water commission and Indian meteorological department, action plan for flood forecasting and warning.

Unit V : Disaster risk reduction programme, institutional strengthening and capacity building for DRR by Central Govt., State disaster management authority, its functions human resource support required at SDMA, need of psychosocial support and mental health in disasters.

Unit VI : Training of human resource in disaster risk reduction planning at state level, awareness among people, key responsibility of engineers in disaster reduction techniques, medical preparedness aspect of disaster, plan to counter, threats to water supply.

Books Recommended;

1) Cuny,Fred C; Disasters and management, oxford Uni. Press.
2) Alexander,David; Principles of emergency planning and management, Terra publishing, ISBN 1-903544-10-6
3) National Disaster Management Authority, Govt. of India, Report.

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Semester : Eighth																		
THEORY																		
1	08AR01	Architectural Design - VIII	2	_	_	2	2	24	200	_	200	80	_	_	_	_
2	08AR02	Advance Construction - II	2	_	_	2	2	4	80	20	100	40	_	_	_	_
3	08AR03	Environmental Services - II	3	_	_	3	3	3	80	20	100	40	_	_	_	_
4	08AR04	Sustainable Architecture	3	_	_	3	3	3	80	20	100	40	_	_	_	_
5	08AR05	Landscape Design	2	_	_	2	2	3	80	20	100	40	_	_	_	_
6	08AR06	Professional Elective - I	3	_	_	3	3	3	80	20	100	40	_	_	_	_
SESSIONAL / PRACTICAL																		
7	08AR07	Architectural Design Studio - VIII	_	_	6	6	6	_	_	_	_	_	100	100	200	100
8	08AR08	Advance Construction Studio - II	_	_	4	4	2	_	_	_	_	_	25	25	50	25
9	08AR09	Landscape Design Studio	_	_	4	4	2	_	_	_	_	_	25	25	50	25
		TOTAL	15	_	14	29	25				700				300	
														TOTAL		1000

Professional Elective-I 1) Housing 2) Environmental Planning 3) Construction Management

08AR06 PROFESSIONAL ELECTIVE – I (1) HOUSING

Objective: To sensitize students about the need for , demand and supply of housing in India, to expose the role or function of various housing agencies, the typologies of housing with basic environmental issues.

UNIT-I: Housing Issues – Indian Context. Housing as Architecture – basic need – demand and supply of housing – Housing Agencies and their role in housing development.

UNIT-II: Social factors influencing housing design, affordability , economic factors and influence of traditional housing and planning features.

UNIT-III: Housing surveys and standards. Sources of Data and information, methods and techniques of housing survey, housing standards etc.

UNIT-IV: Housing Design – Traditional Patterns – Row housing and cluster housing – layout concepts – use of open spaces – utilities and common facilities.

UNIT-V: Case studies of housing schemes designed by eminent architects. High Rise Housing.

UNIT-VI: National habitat and housing policy slum improvement scheme, ISHDP, DCR relevant to housing.

Sessional work :

Assignment and case studies of above topics.

TEXT BOOKS :

1. Joseph de chiara and others – Time Saver Standards for Housing and Residential Development McGraw-Hill Co., New York, 1995
2. Karnataka state Housing Board – MANE – Publication - 1980

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08AR06 **PROFESSIONAL ELECTIVE – I**
(2) ENVIRONMENTAL PLANNING

Objective: To Provide advanced knowledge on how all issues and concerns of environment can integrate to architectural design process.

UNIT-I: Introduction to the ideas, issues and concepts of sustainable Architecture, Global Environment , Principles of environmentally and ecologically supportive Architecture.

UNIT-II: Early Settlement Patter – Climate Responsive Planned Layouts – Orientation of streets and buildings. Creation of Habitable Environment, Early Planning Methods.

UNIT-III: Quality of Urban Environment and Living – Past , Present and Future Trends role of Urban Design in Urban Environment, Planning for Quality Living in Urban Areas.

UNIT-IV: Conservation of Water, Land, Energy its methods. Environmental impact assessment.

UNIT-V: Solid & Liquid Waste from residential & Commercial Buildings – Environmental significance – Segregation and treatment of waste-degradation of environment due to wast .

UNIT-VI: Salient Features of environmental laws – Rain Water Harvesting Techniques. Biological and Thermal Energy Options – Biogas Production – Liquid Waste, Recycling Methods & Practices.

Sessional work :

Assignment and case studies of above topics.

TEXT BOOK :

1. Gosling and Maitland – Environmental Planning – St. Martin's Press, 1984

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08AR06 PROFESSIONAL ELECTIVE – I

(3) CONSTRUCTION MANAGEMENT

Objective: To establish and develop construction management skills network techniques, construction equipments and methods along with quality control in construction.

UNIT-I: Introduction to project management concepts – background of management, purpose, goal and objectives. Traditional management system, Gantt's approaches, load chart, progress chart, bar charts, merits and limitation schedule time estimates units.

101

UNIT-II: Project management, resources balancing, phasing of activities, programmes, scheduling project control, reviewing, updating and monitoring.

UNIT-III: Introduction to modern management concepts. Introduction to PERT and CPM network concepts, inter relationship , information, data sheets and development of network. CPM for management, CPM network analysis, identification of critical path floats computation result sheets.

UNIT-IV: PERT Network, introduction to the theory of probability and statistics, probabilistic aim estimates for the activities of PERT Network.

UNIT-V: Financial management. Introduction to two dimensional network analysis activity cost information. Cost time relationship, crashed estimates for the activities, project direct cost and indirect cost.

UNIT-VI: Construction quality control and inspection, significance of variability and estimation of risks , construction cost control, crashing of networks.

Sessional work :

Assignment and case studies of above topics.

TEXT BOOKS :

1. Dr. B. C. Punmiya and K. K. Khandelwal – Project Planning and Control with PERT/CPM Laxmi Publications, New Delhi, 1987.
2. S. P. Mukhopadyay, Project Management for Architects and Civil Engineers, IIt, Kharagpur.
3. Ahuja H. N. "Construction Performance Control by Networks", Wiley Inter science Publication.
4. Peurifoy, R. I. "Construction Planning Equipments and Methods" McGraw Hill Book Co. Inc.
5. Srivastva, U. K. "Construction Planning Management" Galgotia Publisher.

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SEMESTER: TENTH																	
THEORY																	
1	010AR01	Professional Elective – II	2	1	_	3	3		3	80	20	100	40	-	-	-	-
SESSIONAL / PRACTICAL																	
2	010AR02	Architectural Project / Thesis	-	6	12	18	18		-	-	-	-	-	200	100	300	150
3	010AR03	Seminar	-	-	6	6	13		-	-	-	-	-	-	100	100	50
		Total	2	7	18	27	24					100	-	-	-	400	-
Professional Elective – II 1) Industrial Architecture 2) Climate Responsive Architecture 3) Vernacular Architecture																Total	500

SEMESTER: TENTH

10AR01 PROFESSIONAL ELECTIVE – II
(1) INDUSTRIAL ARCHITECTURE

Objective: To impart knowledge of planning and design features, materials and techniques useful in industrial structures.

UNIT -I : Meaning of industrial architecture, scope , context. Impact of industrial revolution – origin in the context of Britain and the United States – Impact of materials and technology.

UNIT-II : Automation techniques & its impact, circulation and area requirement, influence on design – Internal & External Environment Control – Precaution at site.

UNIT-III : Pioneers and Architects role in industrial design. Study of examples of pioneer to include Peter Behrens, Max Berg, Hans Poelzig's and P. L. Nervi – impact of expressionism and international style.

UNIT-IV : Responsibilities of architect in innovative corporate image, understanding industrial environments through Indian case studies.

UNIT-V : Zoning principle, Factories Act and Rules (1948) in India – Role of Pollution Control Boards, organizing principles. Environmental Control & Waste Management.

Sessional work :

Assignments and drawing on the above topics given in the subject 10AR01 Climate Responsive Architecture .

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10AR01 **PROFESSIONAL ELECTIVE – II**

(2) CLIMATE RESPONSIVE ARCHITECTURE

Objective: To sensitize students about the importance and need for Climate Responsive Architecture Design concept.

UNIT-I: Introduction to the ideas, issues and concepts of sustainable Architecture, related to types of climates. Global Environment & Principles of Environmentally and supportive Architecture.

UNIT-II: Non- conventional Energy Systems, Solar Thermal Application for heating and cooling.

UNIT-III: Low Energy design Hybrid Systems, Integration of PV and wind systems in the buildings.

UNIT-IV: Day Light principles , Glare amount of daylight, daylight factor, orientations and sizes of opening to achieve diffused lights.

UNIT-V: Application of Climatic Principles – Evolution of Plan Form to minimize Heat Gain in Tropical Climates, Orientation of Building with respect to sun , wind, sizes of fenestration & its orientation, Use of evaporative cooling, ground coiling, cavity walls, topography , water bodies, vegetation. Landscape elements, cross ventilation system to achieve natural comfort level in indoor & outdoor spaces.

UNIT-VI: Planning and Design features to be considered with respect to various Climate.

Sessional work :

Assignments and drawing on the above topics given in the subject 10AR01 Climate Responsive Architecture .

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10AR01 **PROFESSIONAL ELECTIVE – II**

(3) VERNACULAR ARCHITECTURE

Objective: To impart knowledge about various manmade and natural forces behind the evolution of traditional architecture.

UNIT -I : Approaches and Concepts to the study of vernacular architecture – Aesthetics – Anthropological – Architectural – Developmental – Geographical – Historical – Spatial – Folkloristic.

UNIT-II : Traditional Principles of Planning in Western & Northern India – Primitive Forms, Symbolism, Colour, Folk Art etc. in the Architecture of the Deserts of Kutch and Gujrat State – Wooden Houses & Mansions (Havelis) Gujrat & Rajsthan – House boats (Dhugas) Kashmir – Material of Construction & Construction details.

UNIT-III: Vernacular Architectural of South India – Wooden Houses, Palaces & Theatres in Kerala, Palaces in Tamilnadu, Principles of Planning, Proportions, Elements, Beliefs & Culture, Material of construction and construction detail.

UNIT-IV : Western influences on Vernacular Architecture – Colonial influence on the traditional House, Bangla & Bungalow, House typologies, settlement planning, Pondicherry & Cochin.

UNIT-V: Secular Architecture – Medieval Period – Citadels, Palaces, Towers, Gateways, Public Buildings etc. in the medieval towns of Jodhpur, Jaipur, Jaisalmer, Gwalior etc.

Sessional work;

Assignments and drawing on the above topics given in the subject 10AR01 Climate Responsive Architecture .

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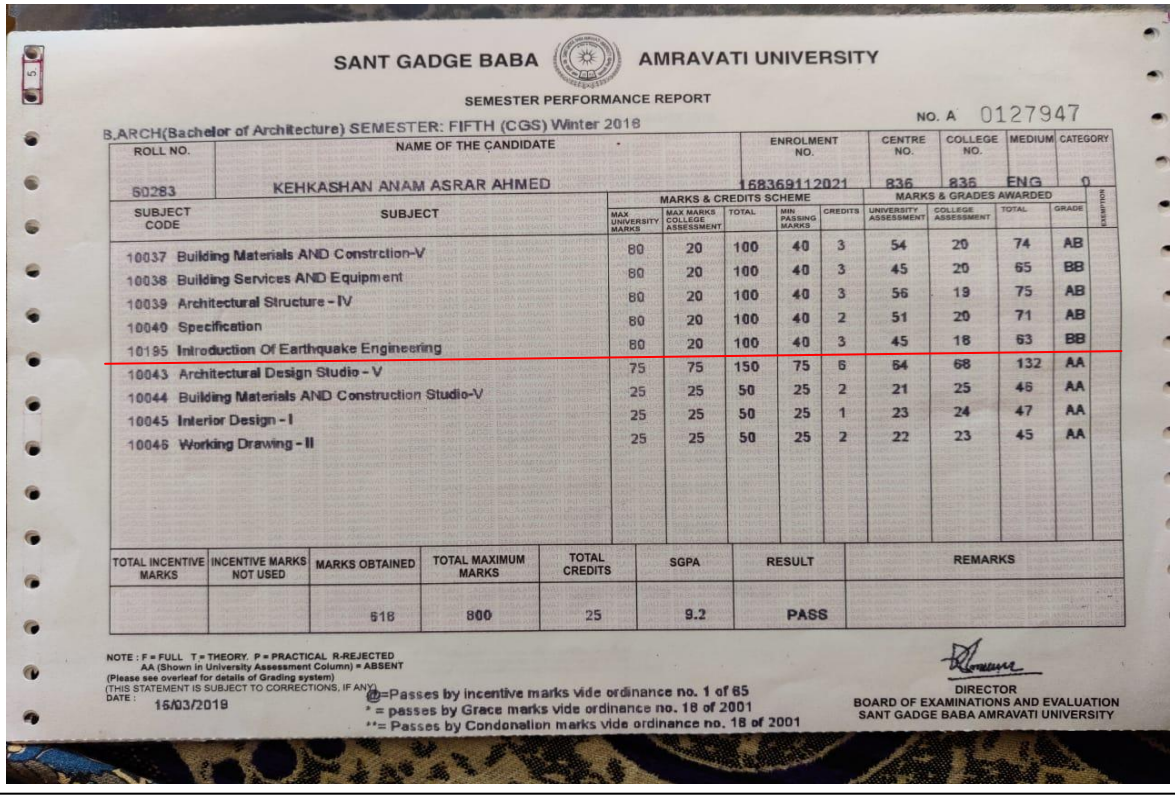
Kathora, Amravati.

STUDENT MARKSHEETS:-



SANT GADGE BABA AMRAVATI UNIVERSITY

SEMESTER PERFORMANCE REPORT

B.ARCH(Bachelor of Architecture) SEMESTER: FIFTH (CGS) Winter 2018 NO. A 0127947

ROLL NO.	NAME OF THE CANDIDATE	ENROLMENT NO.	CENTRE NO.	COLLEGE NO.	MEDIUM	CATEGORY
50283	KEHKASHAN ANAM ASRAR AHMED	168369112021	836	836	ENG	0

SUBJECT CODE	SUBJECT	MARKS & CREDITS SCHEME: MAX UNIVERSITY MARKS	MAX MARKS COLLEGE ASSESSMENT	TOTAL	MIN PASSING MARKS	CREDITS	MARKS & GRADES AWARDED: UNIVERSITY ASSESSMENT	COLLEGE ASSESSMENT	TOTAL	GRADE	EXEMPTION
10037	Building Materials AND Constrction-V	80	20	100	40	3	54	20	74	AB	
10038	Building Services AND Equipment	80	20	100	40	3	45	20	65	BB	
10039	Architectural Structure - IV	80	20	100	40	3	56	19	75	AB	
10040	Specification	80	20	100	40	2	51	20	71	AB	
10195	Introduction Of Earthquake Engineering	80	20	100	40	3	45	18	63	BB	
10043	Architectural Design Studio - V	75	75	150	75	6	64	68	132	AA	
10044	Building Materials AND Construction Studio-V	25	25	50	25	2	21	25	46	AA	
10045	Interior Design - I	25	25	50	25	1	23	24	47	AA	
10046	Working Drawing - II	25	25	50	25	2	22	23	45	AA	

TOTAL INCENTIVE MARKS	INCENTIVE MARKS NOT USED	MARKS OBTAINED	TOTAL MAXIMUM MARKS	TOTAL CREDITS	SGPA	RESULT	REMARKS
		618	800	25	9.2	PASS	

NOTE : F = FULL T = THEORY. P = PRACTICAL R-REJECTED
AA (Shown in University Assessment Column) = ABSENT
(Please see overleaf for details of Grading system)
(THIS STATEMENT IS SUBJECT TO CORRECTIONS, IF ANY)
DATE : 16/03/2018

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**= Passes by Condonation marks vide ordinance no. 18 of 2001

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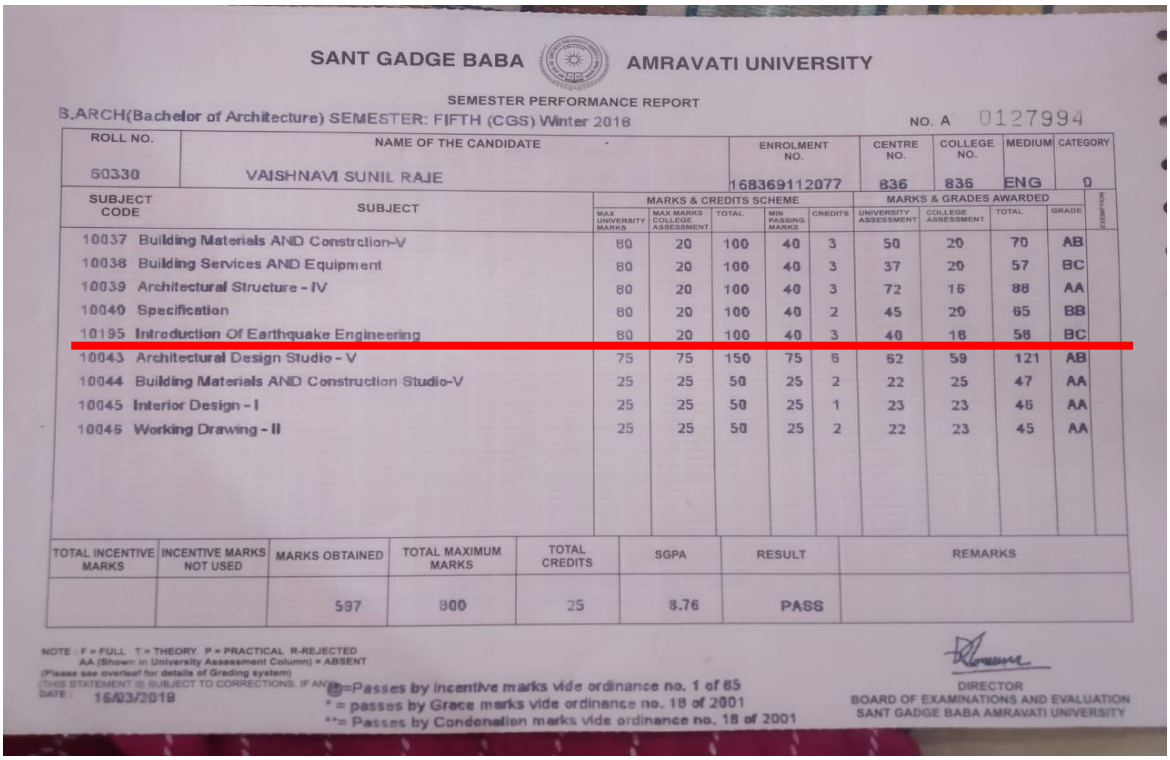

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SEMESTER PERFORMANCE REPORT

B.ARCH(Bachelor of Architecture) SEMESTER: FIFTH (CGS) Winter 2018 NO. A 0127994

ROLL NO.	NAME OF THE CANDIDATE	ENROLMENT NO.	CENTRE NO.	COLLEGE NO.	MEDIUM	CATEGORY
50330	VAISHNAVI SUNIL RAJE	168369112077	836	836	ENG	0

SUBJECT CODE	SUBJECT	MARKS & CREDITS SCHEME: MAX UNIVERSITY MARKS	MAX MARKS COLLEGE ASSESSMENT	TOTAL	MIN PASSING MARKS	CREDITS	MARKS & GRADES AWARDED: UNIVERSITY ASSESSMENT	COLLEGE ASSESSMENT	TOTAL	GRADE	EXEMPTION
10037	Building Materials AND Constrction-V	80	20	100	40	3	50	20	70	AB	
10038	Building Services AND Equipment	80	20	100	40	3	37	20	57	BC	
10039	Architectural Structure - IV	80	20	100	40	3	72	16	88	AA	
10040	Specification	80	20	100	40	2	45	20	65	BB	
10195	Introduction Of Earthquake Engineering	80	20	100	40	3	40	18	58	BC	
10043	Architectural Design Studio - V	75	75	150	75	6	62	59	121	AB	
10044	Building Materials AND Construction Studio-V	25	25	50	25	2	22	25	47	AA	
10045	Interior Design - I	25	25	50	25	1	23	23	46	AA	
10046	Working Drawing - II	25	25	50	25	2	22	23	45	AA	

TOTAL INCENTIVE MARKS	INCENTIVE MARKS NOT USED	MARKS OBTAINED	TOTAL MAXIMUM MARKS	TOTAL CREDITS	SGPA	RESULT	REMARKS
		597	800	25	8.76	PASS	

NOTE : F = FULL T = THEORY. P = PRACTICAL R-REJECTED
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DATE : 16/03/2018

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SEMESTER PERFORMANCE REPORT

B.ARCH(Bachelor of Architecture) SEMESTER: FIFTH (CGS) Winter 2019

NO. A 0207534

ROLL NO.	NAME OF THE CANDIDATE	ENROLMENT NO.	CENTRE NO.	COLLEGE NO.	MEDIUM	CATEGORY
1438	SAMIKSHA SANJAY BHISE	178369112146	836	836	ENG	0

SUBJECT CODE	SUBJECT	MARKS & CREDITS SCHEME					MARKS & GRADES AWARDED				
		MAX UNIVERSITY MARKS	MAX MARKS COLLEGE ASSESSMENT	TOTAL	MIN PASSING MARKS	CREDITS	UNIVERSITY ASSESSMENT	COLLEGE ASSESSMENT	TOTAL	GRADE	EXEMPTION
10037	Building Materials AND Constrction-V	80	20	100	40	3	41	19	60	BB	
10038	Building Services AND Equipment	80	20	100	40	3	70	19	89	AA	
10039	Architectural Structure - IV	80	20	100	40	3	56	18	74	AB	
10040	Specification	80	20	100	40	2	39	14	53	CC	
10195	Introduction Of Earthquake Engineering	80	20	100	40	3	41	17	58	BC	
10043	Architectural Design Studio - V	75	75	150	75	5	67	66	133	AA	
10044	Building Materials AND Construction Studio-V	25	25	50	25	2	19	23	42	AB	
10045	Interior Design - I	25	25	50	25	1	24	24	48	AA	
10046	Working Drawing - II	25	25	50	25	2	19	24	43	AA	

TOTAL INCENTIVE MARKS	INCENTIVE MARKS NOT USED	MARKS OBTAINED	TOTAL MAXIMUM MARKS	TOTAL CREDITS	SGPA	RESULT	REMARKS
3	3	603	800	25	8.88	PASS	

NOTE : F = FULL T = THEORY, P = PRACTICAL R-REJECTED
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(THIS STATEMENT IS SUBJECT TO CORRECTIONS, IF ANY)
DATE : 25/01/2020 28 FEB 2020

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**= Passes by Condonation marks vide ordinance no. 18 of 2001

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SEMESTER PERFORMANCE REPORT

B.ARCH(Bachelor of Architecture) SEMESTER: FIFTH (CGS) Winter 2019

NO. A 0207532

ROLL NO.	NAME OF THE CANDIDATE	ENROLMENT NO.	CENTRE NO.	COLLEGE NO.	MEDIUM	CATEGORY
1436	GANESH SANJAY PATIL	178369112113	836	836	ENG	0

SUBJECT CODE	SUBJECT	MARKS & CREDITS SCHEME					MARKS & GRADES AWARDED				
		MAX UNIVERSITY MARKS	MAX MARKS COLLEGE ASSESSMENT	TOTAL	MIN PASSING MARKS	CREDITS	UNIVERSITY ASSESSMENT	COLLEGE ASSESSMENT	TOTAL	GRADE	EXEMPTION
10037	Building Materials AND Constrction-V	80	20	100	40	3	44	17	61	BB	
10038	Building Services AND Equipment	80	20	100	40	3	65	18	83	AA	
10039	Architectural Structure - IV	80	20	100	40	3	44	17	61	BB	
10040	Specification	80	20	100	40	2	38	18	57	BC	
10195	Introduction Of Earthquake Engineering	80	20	100	40	3	33	18	51	CC	
10043	Architectural Design Studio - V	75	75	150	75	5	48	57	105	BC	
10044	Building Materials AND Construction Studio-V	25	25	50	25	2	17	21	38	BB	
10045	Interior Design - I	25	25	50	25	1	18	21	39	BB	
10046	Working Drawing - II	25	25	50	25	2	20	19	39	BB	

TOTAL INCENTIVE MARKS	INCENTIVE MARKS NOT USED	MARKS OBTAINED	TOTAL MAXIMUM MARKS	TOTAL CREDITS	SGPA	RESULT	REMARKS
		534	800	25	7.68	PASS	

NOTE : F = FULL T = THEORY, P = PRACTICAL R-REJECTED
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(Please see overleaf for details of Grading system)
(THIS STATEMENT IS SUBJECT TO CORRECTIONS, IF ANY)
DATE : 25/01/2020

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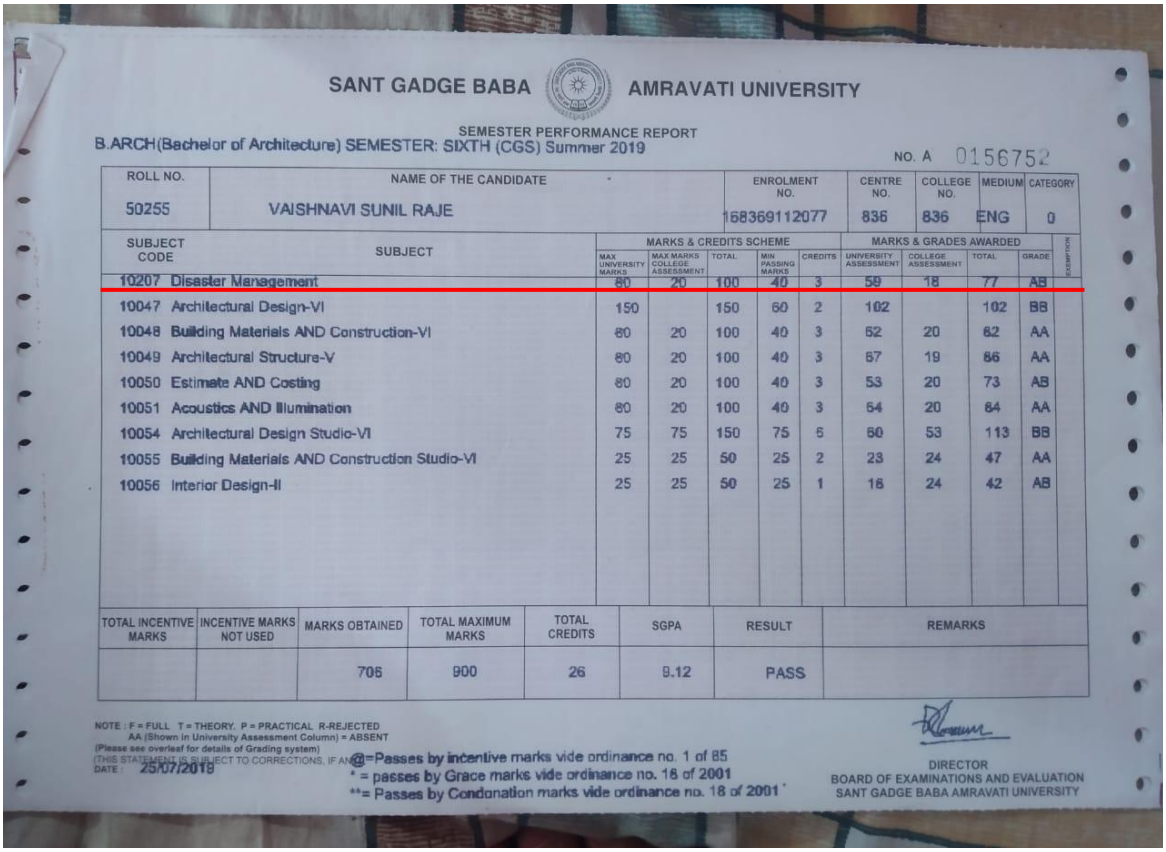

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SEMESTER PERFORMANCE REPORT

B.ARCH(Bachelor of Architecture) SEMESTER: SIXTH (CGS) Summer 2019

NO. A 0156752

ROLL NO.	NAME OF THE CANDIDATE	ENROLMENT NO.	CENTRE NO.	COLLEGE NO.	MEDIUM	CATEGORY
50255	VAISHNAVI SUNIL RAJE	168369112077	836	836	ENG	0

SUBJECT CODE	SUBJECT	MARKS & CREDITS SCHEME: MAX UNIVERSITY MARKS	MAX MARKS COLLEGE ASSESSMENT	TOTAL	MIN PASSING MARKS	CREDITS	MARKS & GRADES AWARDED: UNIVERSITY ASSESSMENT	COLLEGE ASSESSMENT	TOTAL	GRADE	EXEMPTION
10207	Disaster Management	80	20	100	40	3	59	18	77	AB	
10047	Architectural Design-VI	150		150	60	2	102		102	BB	
10048	Building Materials AND Construction-VI	80	20	100	40	3	62	20	82	AA	
10049	Architectural Structure-V	80	20	100	40	3	67	19	86	AA	
10050	Estimate AND Costing	80	20	100	40	3	53	20	73	AB	
10051	Acoustics AND Illumination	80	20	100	40	3	64	20	84	AA	
10054	Architectural Design Studio-VI	75	75	150	75	6	60	53	113	BB	
10055	Building Materials AND Construction Studio-VI	25	25	50	25	2	23	24	47	AA	
10056	Interior Design-II	25	25	50	25	1	18	24	42	AB	

TOTAL INCENTIVE MARKS	INCENTIVE MARKS NOT USED	MARKS OBTAINED	TOTAL MAXIMUM MARKS	TOTAL CREDITS	SGPA	RESULT	REMARKS
		706	900	26	9.12	PASS	

NOTE : F = FULL T = THEORY, P = PRACTICAL R-REJECTED
AA (Shown in University Assessment Column) = ABSENT
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(THIS STATEMENT IS SUBJECT TO CORRECTIONS, IF ANY)
DATE : 25/07/2019

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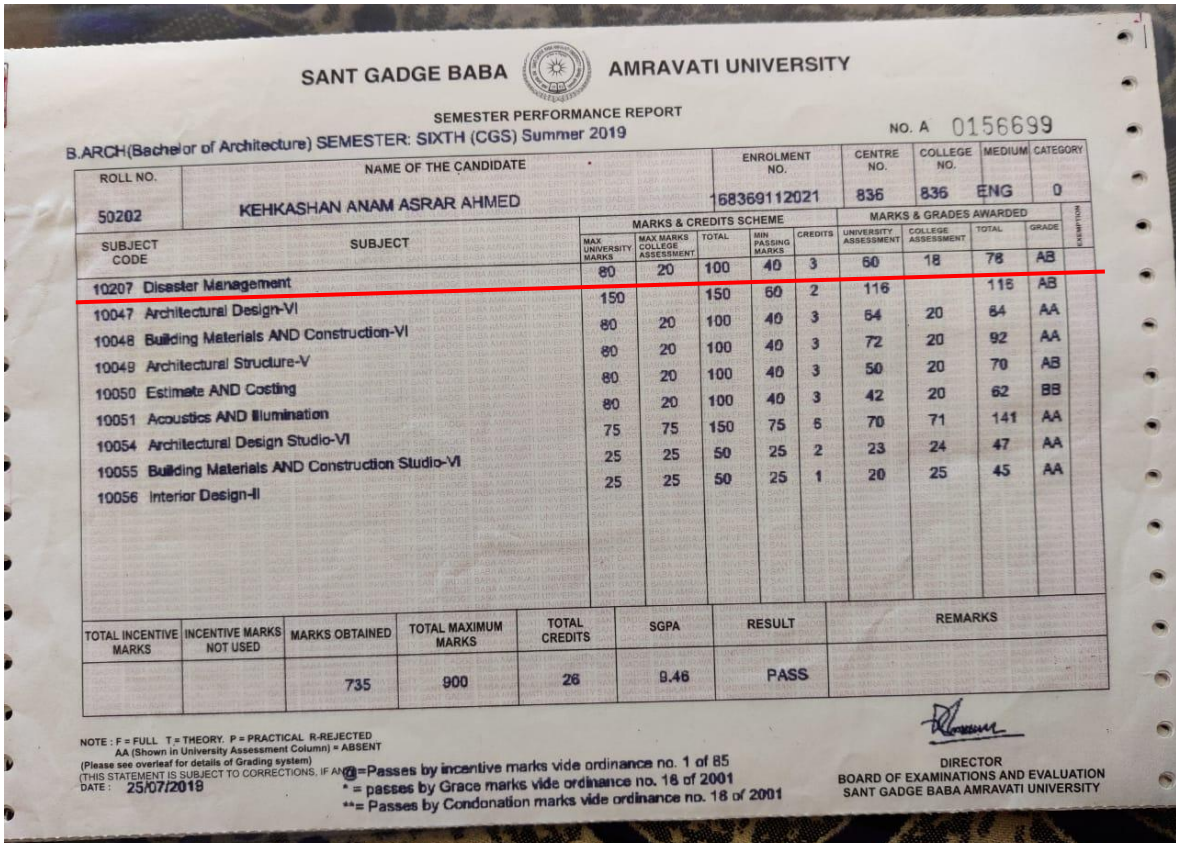

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SEMESTER PERFORMANCE REPORT

B.ARCH(Bachelor of Architecture) SEMESTER: SIXTH (CGS) Summer 2019

NO. A 0156699

ROLL NO.	NAME OF THE CANDIDATE	ENROLMENT NO.	CENTRE NO.	COLLEGE NO.	MEDIUM	CATEGORY
50202	KEHKASHAN ANAM ASRAR AHMED	168369112021	836	836	ENG	0

SUBJECT CODE	SUBJECT	MARKS & CREDITS SCHEME: MAX UNIVERSITY MARKS	MAX MARKS COLLEGE ASSESSMENT	TOTAL	MIN PASSING MARKS	CREDITS	MARKS & GRADES AWARDED: UNIVERSITY ASSESSMENT	COLLEGE ASSESSMENT	TOTAL	GRADE	EXEMPTION
10207	Disaster Management	80	20	100	40	3	60	18	78	AB	
10047	Architectural Design-VI	150		150	60	2	116		116	AB	
10048	Building Materials AND Construction-VI	80	20	100	40	3	64	20	84	AA	
10049	Architectural Structure-V	80	20	100	40	3	72	20	92	AA	
10050	Estimate AND Costing	80	20	100	40	3	50	20	70	AB	
10051	Acoustics AND Illumination	80	20	100	40	3	42	20	62	BB	
10054	Architectural Design Studio-VI	75	75	150	75	6	70	71	141	AA	
10055	Building Materials AND Construction Studio-VI	25	25	50	25	2	23	24	47	AA	
10056	Interior Design-II	25	25	50	25	1	20	25	45	AA	

TOTAL INCENTIVE MARKS	INCENTIVE MARKS NOT USED	MARKS OBTAINED	TOTAL MAXIMUM MARKS	TOTAL CREDITS	SGPA	RESULT	REMARKS
		735	900	26	9.46	PASS	

NOTE : F = FULL T = THEORY, P = PRACTICAL R-REJECTED
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(THIS STATEMENT IS SUBJECT TO CORRECTIONS, IF ANY)
DATE : 25/07/2019

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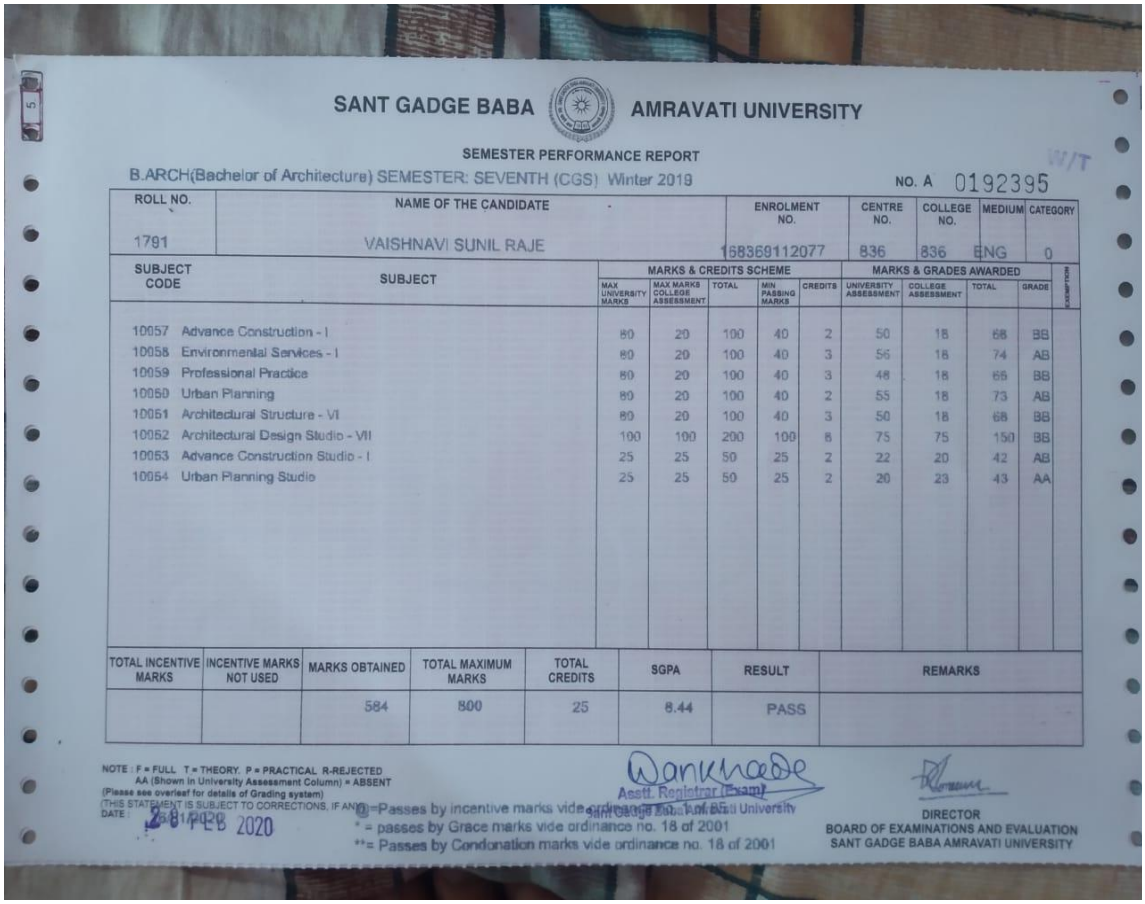

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SEMESTER PERFORMANCE REPORT

B.ARCH(Bachelor of Architecture) SEMESTER: SEVENTH (CGS) Winter 2019 NO. A 0192395 W/T

ROLL NO.	NAME OF THE CANDIDATE	ENROLMENT NO.	CENTRE NO.	COLLEGE NO.	MEDIUM	CATEGORY
1791	VAISHNAVI SUNIL RAJE	168369112077	836	836	ENG	0

SUBJECT CODE	SUBJECT	MARKS & CREDITS SCHEME: MAX UNIVERSITY MARKS	MAX MARKS COLLEGE ASSESSMENT	TOTAL	MIN PASSING MARKS	CREDITS	MARKS & GRADES AWARDED: UNIVERSITY ASSESSMENT	COLLEGE ASSESSMENT	TOTAL	GRADE	EXEMPTION
10057	Advance Construction - I	80	20	100	40	2	50	18	68	BB	
10058	Environmental Services - I	80	20	100	40	3	56	18	74	AB	
10059	Professional Practice	80	20	100	40	3	48	18	66	BB	
10060	Urban Planning	80	20	100	40	2	55	18	73	AB	
10061	Architectural Structure - VI	80	20	100	40	3	50	18	68	BB	
10062	Architectural Design Studio - VII	100	100	200	100	8	75	75	150	BB	
10063	Advance Construction Studio - I	25	25	50	25	2	22	20	42	AB	
10064	Urban Planning Studio	25	25	50	25	2	20	23	43	AA	

TOTAL INCENTIVE MARKS	INCENTIVE MARKS NOT USED	MARKS OBTAINED	TOTAL MAXIMUM MARKS	TOTAL CREDITS	SGPA	RESULT	REMARKS
		584	800	25	8.44	PASS	

NOTE : F = FULL T = THEORY, P = PRACTICAL R-REJECTED
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(THIS STATEMENT IS SUBJECT TO CORRECTIONS, IF ANY)
DATE : 28/FEB 2020

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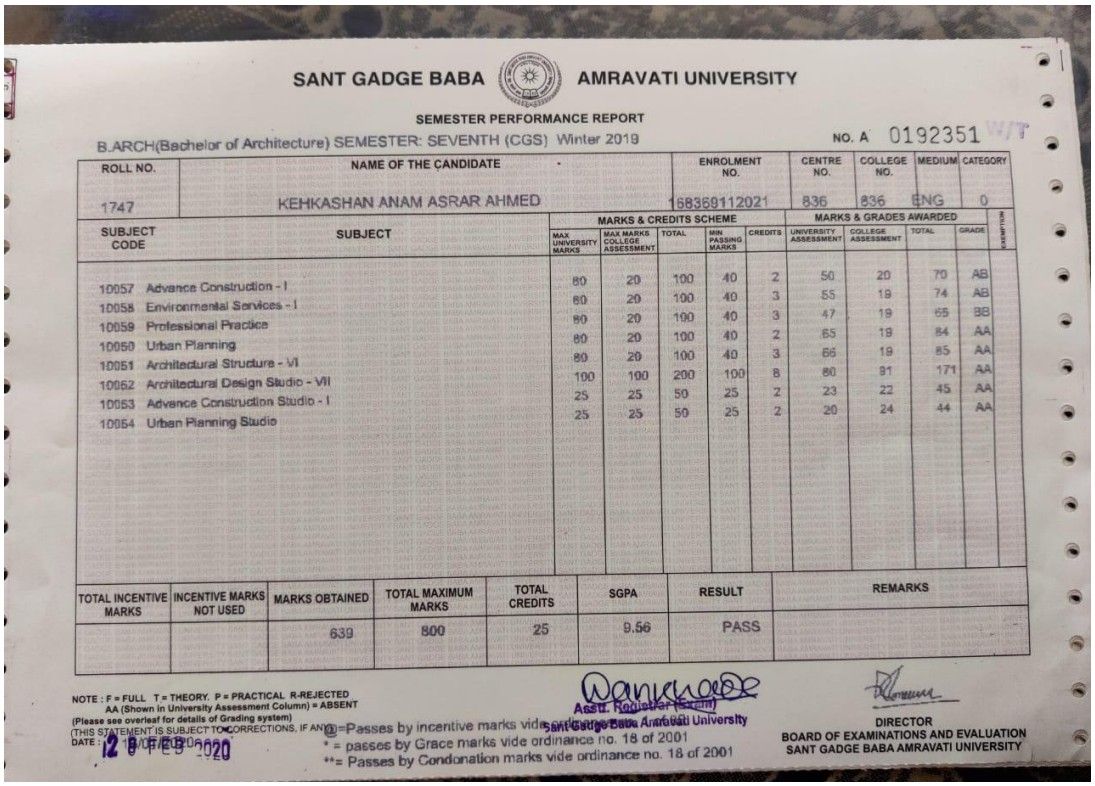

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SEMESTER PERFORMANCE REPORT

B.ARCH(Bachelor of Architecture) SEMESTER: SEVENTH (CGS) Winter 2019 NO. A 0192351 W/T

ROLL NO.	NAME OF THE CANDIDATE	ENROLMENT NO.	CENTRE NO.	COLLEGE NO.	MEDIUM	CATEGORY
1747	KEHKASHAN ANAM ASRAR AHMED	168369112021	836	836	ENG	0

SUBJECT CODE	SUBJECT	MARKS & CREDITS SCHEME: MAX UNIVERSITY MARKS	MAX MARKS COLLEGE ASSESSMENT	TOTAL	MIN PASSING MARKS	CREDITS	MARKS & GRADES AWARDED: UNIVERSITY ASSESSMENT	COLLEGE ASSESSMENT	TOTAL	GRADE	EXEMPTION
10057	Advance Construction - I	80	20	100	40	2	50	20	70	AB	
10058	Environmental Services - I	80	20	100	40	3	55	19	74	AB	
10059	Professional Practice	80	20	100	40	3	47	19	66	BB	
10060	Urban Planning	80	20	100	40	2	65	19	84	AA	
10061	Architectural Structure - VI	80	20	100	40	3	66	19	85	AA	
10062	Architectural Design Studio - VII	100	100	200	100	8	80	91	171	AA	
10063	Advance Construction Studio - I	25	25	50	25	2	23	22	45	AA	
10064	Urban Planning Studio	25	25	50	25	2	20	24	44	AA	

TOTAL INCENTIVE MARKS	INCENTIVE MARKS NOT USED	MARKS OBTAINED	TOTAL MAXIMUM MARKS	TOTAL CREDITS	SGPA	RESULT	REMARKS
		639	800	25	9.56	PASS	

NOTE : F = FULL T = THEORY, P = PRACTICAL R-REJECTED
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(THIS STATEMENT IS SUBJECT TO CORRECTIONS, IF ANY)
DATE : 28/FEB 2020

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**= Passes by Condonation marks vide ordinance no. 18 of 2001

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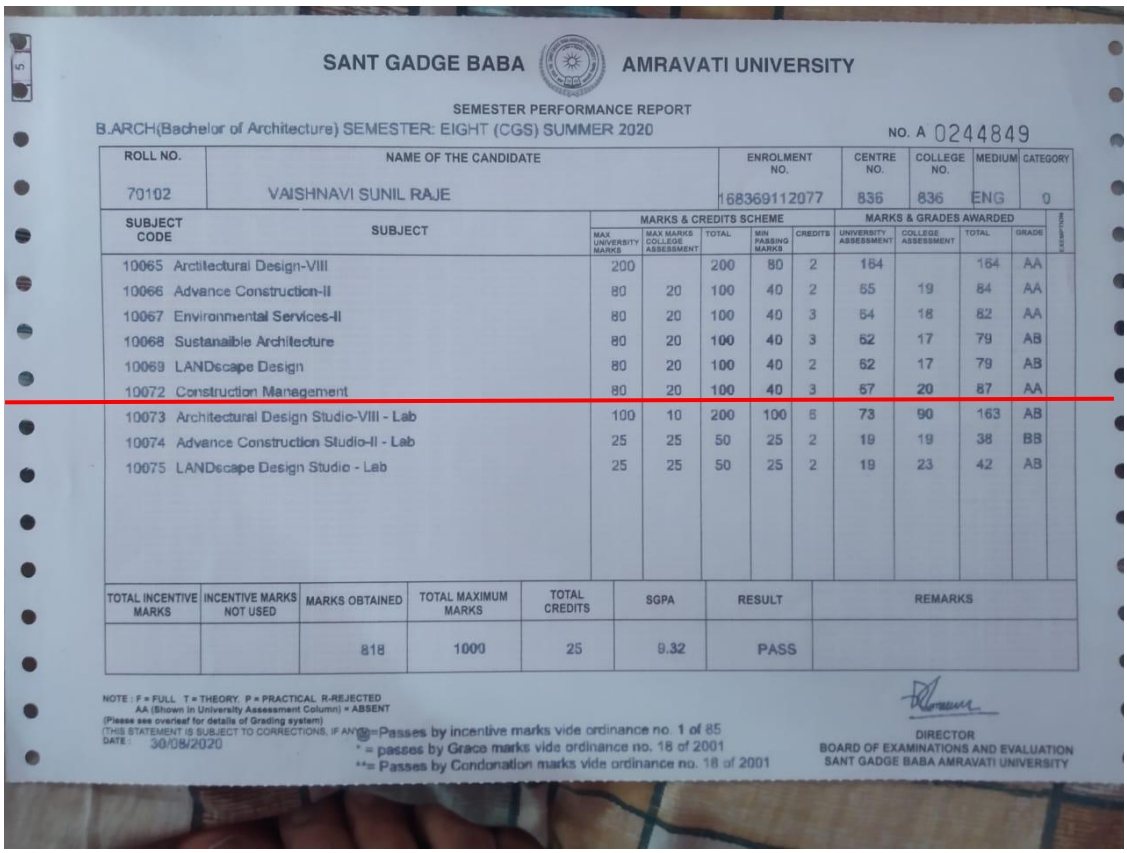

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SEMESTER PERFORMANCE REPORT

B.ARCH(Bachelor of Architecture) SEMESTER: EIGHT (CGS) SUMMER 2020

NO. A 0244849

ROLL NO.	NAME OF THE CANDIDATE	ENROLMENT NO.	CENTRE NO.	COLLEGE NO.	MEDIUM	CATEGORY
70102	VAISHNAVI SUNIL RAJE	168369112077	836	836	ENG	O

SUBJECT CODE	SUBJECT	MARKS & CREDITS SCHEME					MARKS & GRADES AWARDED				EXEMPTION
		MAX UNIVERSITY MARKS	MAX MARKS COLLEGE ASSESSMENT	TOTAL	MIN PASSING MARKS	CREDITS	UNIVERSITY ASSESSMENT	COLLEGE ASSESSMENT	TOTAL	GRADE	
10065	Architectural Design-VIII	200		200	80	2	164		164	AA	
10066	Advance Construction-II	80	20	100	40	2	65	19	84	AA	
10067	Environmental Services-II	80	20	100	40	3	64	18	82	AA	
10068	Sustainable Architecture	80	20	100	40	3	62	17	79	AB	
10069	LANDscape Design	80	20	100	40	2	62	17	79	AB	
10072	Construction Management	80	20	100	40	3	67	20	87	AA	
10073	Architectural Design Studio-VIII - Lab	100	10	200	100	6	73	90	163	AB	
10074	Advance Construction Studio-II - Lab	25	25	50	25	2	19	19	38	BB	
10075	LANDscape Design Studio - Lab	25	25	50	25	2	19	23	42	AB	

TOTAL INCENTIVE MARKS	INCENTIVE MARKS NOT USED	MARKS OBTAINED	TOTAL MAXIMUM MARKS	TOTAL CREDITS	SGPA	RESULT	REMARKS
		818	1000	25	9.32	PASS	

NOTE : F = FULL T = THEORY. P = PRACTICAL R-REJECTED
AA (Shown in University Assessment Column) = ABSENT
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(THIS STATEMENT IS SUBJECT TO CORRECTIONS, IF ANY)
DATE : 30/08/2020

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**= Passes by Condonation marks vide ordinance no. 18 of 2001

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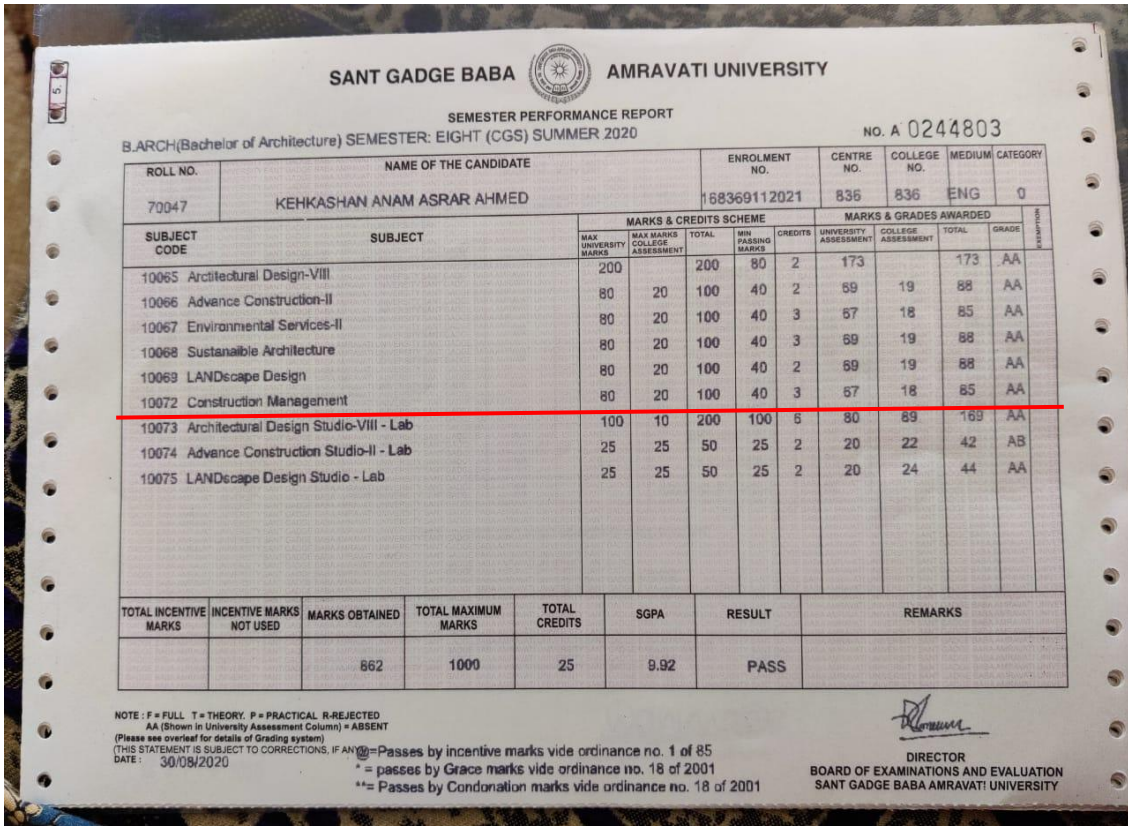

SANT GADGE BABA AMRAVATI UNIVERSITY

SEMESTER PERFORMANCE REPORT

B.ARCH(Bachelor of Architecture) SEMESTER: EIGHT (CGS) SUMMER 2020

NO. A 0244803

ROLL NO.	NAME OF THE CANDIDATE	ENROLMENT NO.	CENTRE NO.	COLLEGE NO.	MEDIUM	CATEGORY
70047	KEHKASHAN ANAM ASRAR AHMED	168369112021	836	836	ENG	O

SUBJECT CODE	SUBJECT	MARKS & CREDITS SCHEME					MARKS & GRADES AWARDED				EXEMPTION
		MAX UNIVERSITY MARKS	MAX MARKS COLLEGE ASSESSMENT	TOTAL	MIN PASSING MARKS	CREDITS	UNIVERSITY ASSESSMENT	COLLEGE ASSESSMENT	TOTAL	GRADE	
10065	Architectural Design-VIII	200		200	80	2	173		173	AA	
10066	Advance Construction-II	80	20	100	40	2	69	19	88	AA	
10067	Environmental Services-II	80	20	100	40	3	67	18	85	AA	
10068	Sustainable Architecture	80	20	100	40	3	69	19	88	AA	
10069	LANDscape Design	80	20	100	40	2	69	19	88	AA	
10072	Construction Management	80	20	100	40	3	67	18	85	AA	
10073	Architectural Design Studio-VIII - Lab	100	10	200	100	6	80	89	169	AA	
10074	Advance Construction Studio-II - Lab	25	25	50	25	2	20	22	42	AB	
10075	LANDscape Design Studio - Lab	25	25	50	25	2	20	24	44	AA	

TOTAL INCENTIVE MARKS	INCENTIVE MARKS NOT USED	MARKS OBTAINED	TOTAL MAXIMUM MARKS	TOTAL CREDITS	SGPA	RESULT	REMARKS
		862	1000	25	9.92	PASS	

NOTE : F = FULL T = THEORY. P = PRACTICAL R-REJECTED
AA (Shown in University Assessment Column) = ABSENT
(Please see overleaf for details of Grading system)
(THIS STATEMENT IS SUBJECT TO CORRECTIONS, IF ANY)
DATE : 30/08/2020

@=Passes by incentive marks vide ordinance no. 1 of 85
* = passes by Grace marks vide ordinance no. 18 of 2001
**= Passes by Condonation marks vide ordinance no. 18 of 2001

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BOARD OF EXAMINATIONS AND EVALUATION
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SANT GADGE BABA AMRAVATI UNIVERSITY

SEMESTER PERFORMANCE REPORT

No. 0000160

NAME OF EXAM : FIVE YEAR B.ARCH. SEMESTER : TENTH (SEMESTER PATTERN) (CGS) SUMMER 2016 SGBA44050A124938

ROLL NO.	NAME OF THE CANDIDATE	ENROLMENT NO.	CENTRE NO.	COLLEGE NO.	MEDIUM	CATEGORY
16641235	ANKUSH PANDURANG KHANDARE	168369110177	817	836	ENG	0

SUBJECT CODE	SUBJECT	MARKS & CREDITS SCHEME					MARKS & GRADES AWARDED				EXEMPTION
		MAX. UNIVERSITY MARKS	MAX.MARKS COLLEGE ASSESSMENT	TOTAL	MIN. PASSING MARKS	CREDITS	UNIVERSITY ASSESSMENT	COLLEGE ASSESSMENT	TOTAL	GRADE	
10078	CLIMATE RESPONSIVE ARCHITECTURE	80	20	100	40	3	45	20	65	BB	
10080	ARCHITECTURAL PROJECT / THESIS	200	100	300	150	18	156	90	246	AB	
10081	SEMINAR	--	100	100	50	13		82	82	AB	

TOTAL INCENTIVE MARKS	INCENTIVE MARKS BALANCED	EXAMS PARTICULARS	TOTAL CREDITS	SGPA	RESULT	CGPA	REMARKS
		Semester - VII	25	6.8	PASS	8.76	Obt.Marks / Out of
		Semester - VIII	25	7.44			393 500
		Semester - IX	26	10			
		Semester - X	34	8.91			

NOTE : F = FULL T=THEORY P = PRACTICAL R -REJECTED
AA (shown in University Assessment Column) = ABSENT
(Please see overleaf for details of grading system)
(THIS STATEMENT IS SUBJECT TO CORRECTIONS, IF ANY)
DATE : 16/09/2016

@=Passes by Incentive marks vide Ordinance No.1 Of 85
*=Passes by Grace Marks vide Ordinance No 18 Of 2001
**=Passes by Condonation marks vide Ordinance No.18 Of 2001

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Students are given freedom to choose upon subject from elective list. but the student are choosing same subject as elective over year for following probable reasons.

a) Readily available study material and notes from seniors.
b) Past year culture developed for the subject in terms of faculty known to them.
c) This subject they find more helpful for their architecture allied known how development.

STUDENT LIST (2019-2020)

P.R.PATIL COLLEGE OFARCHITECTURE, AMRAVATI
B. Arch 3th Year (A) Sem: 5th (2019-20)

Sr. No.	Roll No.	Students Name (D)	Subject (Free Elective)
1	2K17002	AKASH UDEBHAN SAPATE	Introduction to Earthquake Engg.
2	2K17004	ARPITA AJAY JAWALKAR	Introduction to Earthquake Engg.
3	2K17005	BHAVESH GAJANAN SABALKAR	Introduction to Earthquake Engg.
4	2K17006	BHAVIKA ASHOK MAHURKAR	Introduction to Earthquake Engg.
5	2K17007	DEVASHREE SUNIL GABHANE	Introduction to Earthquake Engg.
6	2K17008	GANESH SANJAY PATIL	Introduction to Earthquake Engg.
7	2K17009	GAURI SANJAY ANASANE	Introduction to Earthquake Engg.
8	2K17010	GEETA GANESHRAO MALEWAR	Introduction to Earthquake Engg.
9	2K17011	JYOTI RAMESHKUMAR KONDADA	Introduction to Earthquake Engg.
10	2K17012	KARMAN AMARJEET CHAWLA	Introduction to Earthquake Engg.
11	2K17014	KOMAL LAXMANDAS AHUJA	Introduction to Earthquake Engg.
12	2K17016	MALLIKA VINOD BHALERAO	Introduction to Earthquake Engg.
13	2K17018	MISBAH ANJUM AYYUB KHAN	Introduction to Earthquake Engg.
14	2K17019	MOHD FAIZAN MOHD EJAZ	Introduction to Earthquake Engg.
15	2K17020	MUSKAN DEEPAK SAHU	Introduction to Earthquake Engg.
16	2K17021	MUSKAN ANIL JASWANI	Introduction to Earthquake Engg.
17	2K17022	NEHA HUKUMCHAND SAMRA	Introduction to Earthquake Engg.
18	2K17023	NIDHI HUKUMCHAND SAMRA	Introduction to Earthquake Engg.
19	2K17024	PARIKSHIT SHYAMRAO MAHALE	Introduction to Earthquake Engg.
20	2K17025	PRANAY SURESH GIRATKAR	Introduction to Earthquake Engg.
21	2K17028	SAMIKSHA SANJAY BHISE	Introduction to Earthquake Engg.

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P.R.PATIL COLLEGE OFARCHITECTURE, AMRAVATI

B. Arch 3th Year (B) Sem: 5th (2019-20)

Sr. No.	Roll No.	Students Name	Subject (Free Elective)	
22	2K17029	SHRUTI BHAGWAT NARKHEDE	Introduction to Earthquake Engg.	
23	2K17030	SHUBHADA SHYAM PATRE	Introduction to Earthquake Engg.	
24	2K17031	SURAJ VINOD PANDEY	Introduction to Earthquake Engg.	
25	2K17032	SWEETY MAHESH BAJAJ	Introduction to Earthquake Engg.	
26	2K17033	TANUSHA SANJAY MALTHANE	Introduction to Earthquake Engg.	
27	2K17035	VAISHNAVI RAMESH JAGTAP	Introduction to Earthquake Engg.	
28	2K17036	VAISHNAVI SANJAY GUPTA	Introduction to Earthquake Engg.	
29	2K17037	VAISHNAVI VINOD GANGADE	Introduction to Earthquake Engg.	
30	2K17039	VIPUL ARUN KHANDEKAR	Introduction to Earthquake Engg.	
31	2K17041	MANSI MANISH SARVAIYA	Introduction to Earthquake Engg.	
32	2K17042	RAJESHWARI RAJESH YADAV	Introduction to Earthquake Engg.	
33	2K17043	SONAM DIPESH SHAH	Introduction to Earthquake Engg.	
34	2K17044	ANIKET NARENDRA WANDHARE	Introduction to Earthquake Engg.	
35	2K17045	ANUSHREE GAUTAM TIPLE	Introduction to Earthquake Engg.	
36	2K17047	PRAJKATA SANJAY SULKE	Introduction to Earthquake Engg.	
37	2K17048	PRAJKTA KEOLANAND TAOLARE	Introduction to Earthquake Engg.	
38	2K17046	MEGHANA SATISH VYAS	Introduction to Earthquake Engg.	
39	2K17049	PRAJWAL VIJAY SUNE	Introduction to Earthquake Engg.	
40	2K17050	PRANIT AVINASH WATH	Introduction to Earthquake Engg.	
41	2K17051	ABHINAV DNYANESHWAR SAYAM	Introduction to Earthquake Engg.	
42	2K17052	SHIVANI DHARMESH BOBADE	Introduction to Earthquake Engg.	
43	2K17053	SHUBHAM RAMESHWAR UPTHADE	Introduction to Earthquake Engg.	
44	2K17055	VAISHNAVI SANJAY NIMBHORKAR	Introduction to Earthquake Engg.	
45	2K17057	VANSHIKA CHANDRAKANT WANKHEDE	Introduction to Earthquake Engg.	
46	2K2016	ASHUTOSH PRAKASH MANWAR	Introduction to Earthquake Engg.	New admit
47	2K2016	SHAILESH CHINTAMAN TOMPE	Introduction to Earthquake Engg.	
48	2K2016	SAKSHI RAJENDRA DAHAKE	Introduction to Earthquake Engg.	

Attendance (%) & Marks : below 30 (0), 30-39 (1), 40-49 (2), 50-59 (3), 60-94 (4), 95 and above (5) marks as per classes attended by student

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P.R.PATIL COLLEGE OFARCHITECTURE, AMRAVATI

B. Arch 3th Year (A) Sem: 6th (2019-20)

Sr. No.	Roll No.	Students Name (D)	Subject (Free Elective)
1	2K17002	AKASH UDEBHAN SAPATE	Disaster Management
2	2K17004	ARPITA AJAY JAWALKAR	Disaster Management
3	2K17005	BHAVESH GAJANAN SABALKAR	Disaster Management
4	2K17006	BHAVIKA ASHOK MAHURKAR	Disaster Management
5	2K17007	DEVASHREE SUNIL GABHANE	Disaster Management
6	2K17008	GANESH SANJAY PATIL	Disaster Management
7	2K17009	GAURI SANJAY ANASANE	Disaster Management
8	2K17010	GEETA GANESHRAO MALEWAR	Disaster Management
9	2K17011	JYOTI RAMESHKUMAR KONDADA	Disaster Management
10	2K17012	KARMAN AMARJEET CHAWLA	Disaster Management
11	2K17014	KOMAL LAXMANDAS AHUJA	Disaster Management
12	2K17016	MALLIKA VINOD BHALERAO	Disaster Management
13	2K17018	MISBAH ANJUM AYYUB KHAN	Disaster Management
14	2K17019	MOHD FAIZAN MOHD EJAZ	Disaster Management
15	2K17020	MUSKAN DEEPAK SAHU	Disaster Management
16	2K17021	MUSKAN ANIL JASWANI	Disaster Management
17	2K17022	NEHA HUKUMCHAND SAMRA	Disaster Management
18	2K17023	NIDHI HUKUMCHAND SAMRA	Disaster Management
19	2K17024	PARIKSHIT SHYAMRAO MAHALE	Disaster Management
20	2K17025	PRANAY SURESH GIRATKAR	Disaster Management
21	2K17028	SAMIKSHA SANJAY BHISE	Disaster Management

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P.R.PATIL COLLEGE OFARCHITECTURE, AMRAVATI
B. Arch 3th Year (B) Sem: 6th (2019-20)

Sr. No.	Roll No.	Students Name	Subject (Free Elective)
22	2K17029	SHRUTI BHAGWAT NARKHEDE	Disaster Management
23	2K17030	SHUBHADA SHYAM PATRE	Disaster Management
24	2K17031	SURAJ VINOD PANDEY	Disaster Management
25	2K17032	SWEETY MAHESH BAJAJ	Disaster Management
26	2K17033	TANUSHA SANJAY MALTHANE	Disaster Management
27	2K17035	VAISHNAVI RAMESH JAGTAP	Disaster Management
28	2K17036	VAISHNAVI SANJAY GUPTA	Disaster Management
29	2K17037	VAISHNAVI VINOD GANGADE	Disaster Management
30	2K17039	VIPUL ARUN KHANDEKAR	Disaster Management
31	2K17041	MANSI MANISH SARVAIYA	Disaster Management
32	2K17042	RAJESHWARI RAJESH YADAV	Disaster Management
33	2K17043	SONAM DIPESH SHAH	Disaster Management
34	2K17044	ANIKET NARENDRA WANDHARE	Disaster Management
35	2K17045	ANUSHREE GAUTAM TIPLE	Disaster Management
36	2K17047	PRAJKATA SANJAY SULKE	Disaster Management
37	2K17048	PRAJKTA KEOLANAND TAOLARE	Disaster Management
38	2K17046	MEGHANA SATISH VYAS	Disaster Management
39	2K17049	PRAJWAL VIJAY SUNE	Disaster Management
40	2K17050	PRANIT AVINASH WATH	Disaster Management
41	2K17051	ABHINAV DNYANESHWAR SAYAM	Disaster Management
42	2K17052	SHIVANI DHARMESH BOBADE	Disaster Management
43	2K17053	SHUBHAM RAMESHWAR UPTHADE	Disaster Management
44	2K17055	VAISHNAVI SANJAY NIMBHORKAR	Disaster Management
45	2K17057	VANSHIKA CHANDRAKANT WANKHEDE	Disaster Management
46	2K2016	ASHUTOSH PRAKASH MANWAR	Disaster Management
47	2K2016	SHAILESH CHINTAMAN TOMPE	Disaster Management
48	2K2016	SAKSHI RAJENDRA DAHAKE	Disaster Management

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P.R.PATIL COLLEGE OFARCHITECTURE, AMRAVATI

B. Arch 4th Year (A) Sem: 8th (2019-20)

Sr. No.	Roll No.	Students Name	Subject (Free Elective)
1	2K16001	AJEETA LAXMIKANT MUJUMDAR	Construction Management
2	2K16003	ANMOL DIPAK KOUSKIYA	Construction Management
3	2K16004	ANUJA RAVINDRA KALE	Construction Management
4	2K16005	SAYALI SHYAM PINJARKAR	Construction Management
5	2K16006	CHANCHAL DHANRAJ KUDAKE	Construction Management
6	2K16007	CHANCHAL PRAMOD PUSADKAR	Construction Management
7	2K16008	HARSHITA SHAILESH ADATIYA	Construction Management
8	2K16011	KEHKASHAN ANAM ASRAR AHMAD	Construction Management
9	2K16012	KUNJAN DINESHJI LADDHA	Construction Management
10	2K16013	MANALI NITINRAO INGOLE	Construction Management
11	2K16014	MANJIRI MANOJ SABOO	Construction Management
12	2K16017	PURVA JAYANT SHAHAKAR	Construction Management
13	2K16018	PURVA MOHAN INGALE	Construction Management
14	2K16020	SADAF AAFREEN A WAHEED NAYAK	Construction Management
15	2K16019	RADHA GIRISH KINJAWADEKAR	Construction Management
16	2K16021	SHREYA SUNIL WAKODE	Construction Management
17	2K16023	SHRUTI SANJAY INGOLE	Construction Management
18	2K16024	TEJAL SUBHASHRAO SHRIRAO	Construction Management
19	2K16026	VAISHNAVI RAVINDRA WANKHADE	Construction Management
20	2K16029	AJINKYA DEEPAK WANKHADE	Construction Management
21	2K16033	HARSHAL NANURAM RATHOD	Construction Management
22	2K16035	MUKUL VIJAY BHUTADA	Construction Management
23	2K16028	ABRAR ALTAMASH ABDUL GAFFAR	Construction Management
24	2K16036	NIKHIL PRAKASHRAO KANER	Construction Management
25	2K16038	NISHCHAY DADARAO GAWAI	Construction Management
26	2K16034	MOHD SAIF ABDUL KALEEM	Construction Management
27	2K16040	SHUBHAM AJAYRAO AMALE	Construction Management
28	2K15002	Anjali Madhukar Mehare	Construction Management
29	2K15026	Abuzar Khan Rais Khan	Construction Management
30	2K15032	Mahima Sudesh Bhele	Construction Management
31	2K16039	PRAJWAL UNMESH SHINGANE	Construction Management
32		KU RUTUJA RAJENDRA BALAPURE	Construction Management
33	2k2013	AKASH BALU HIWARALE	Construction Management
34	2K16037	NISHANT PRAKASH JAISWAL	Construction Management
			Construction Management

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P.R. Patil Collage of Architecture
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P.R.PATIL COLLEGE OFARCHITECTURE, AMRAVATI

B. Arch 4th Year (B) Sem: 8th (2019-20)

Sr. No.	Roll No.	Students Name	Subject (Free Elective)
35	2K16041	HONEY CHELARAM MEGHANI	Construction Management
36	2K16042	KHUSHBOO RAJESH CHANDAK	Construction Management
37	2K16043	NILAM SUNIL DEHANKAR	Construction Management
38	2K16044	PARUL RAJESH UMALE	Construction Management
39	2K16045	DHANASHRI PRAMOD THAKARE	Construction Management
40	2K16046	MEGHA ANIL JADHAV	Construction Management
41	2K16047	POOJA GAJENDRA BHOYAR	Construction Management
42	2K16049	PRAJAKTA VIJAY UMAP	Construction Management
43	2K16050	PRANALI RAJENDRA BOHARUPI	Construction Management
44	2K16051	PRATIKSHA PRAMOD RAJMANE	Construction Management
45	2K16053	RADHA JAGNNATH MURUMKAR	Construction Management
46	2K16054	RADHIKA VIKRAM JASWANTE	Construction Management
47	2K16055	RASHMI RAJENDRA MOHOD	Construction Management
48	2K16056	RINKAL VIJAY HUNDANI	Construction Management
49	2K16057	RUCHIKA GAJANANRAO RAMTEKE	Construction Management
50	2K16059	SHRUTIKA UMESH MUNDADA	Construction Management
51	2K16060	SNEHA HARISH SANGANI	Construction Management
52	2K16061	UNNATI DURGADAS AKARE	Construction Management
53	2K16062	VAISHNAVI DEVENDRAPANT CHAUDHARI	Construction Management
54	2K16063	VAISHNAVI RAM GUNDEWAR	Construction Management
55	2K16064	VAISHNAVI SUNIL RAJE	Construction Management
56	2K16065	VINITA VINODRAO KAMBE	Construction Management
57	2K16066	ABHISHEK VIJAY GOMEKAR	Construction Management
58	2K16068	NIKHIL RAVINDRA BONDRE	Construction Management
59	2K16069	NILESH DNYANESHWAR TARAS	Construction Management
60	2K16072	RUSHIKESH SUBHASHRAO DESHMUKH	Construction Management
61	2K16073	SACHIN DNYANESHWAR WANKHADE	Construction Management
62	2K16078	SURAJ NITEEN WANKHEDE	Construction Management
63	2k15075	Siddhesh Prashant Khandale	Construction Management
64	2K16070	PRATHMESH GAJANAN RAUT	Construction Management
65	2K16071	ROHAN SATISH BIRAJDAR	Construction Management
66	2K16076	SHANTANU SANTOSH SAWLE	Construction Management
67	2k15071	Kamran Tawshi Abdul Shaikil	Construction Management
68	2K16081	PRIYANKESH RAVINDRA LULEKAR	Construction Management
69	2K16077	SHUBHAM RAMESH VANARE	Construction Management
70	2K16080	VINAYAK NAGORAO TIDKE	Construction Management
71	2k15074	PRANAV Rajeshwar Sardar	Construction Management
72		PIYUSH PRADIPRAO DANGE	Construction Management
73	2K16074	SANKET PURUSHOTTAM TAMBAKHE	Construction Management
74	2K15	ASHISH NATTHULAL WADICHAR	Construction Management
75	2K1112	SHARAYU DEEPAK MANEKAR	Construction Management

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P.R.PATIL COLLEGE OFARCHITECTURE, AMRAVATI

B. Arch 5th Year (A) Sem: 10th (2019-20)

Sr. No.	Roll No.	Students Name (D)	Subject (Free Elective)
1	2K15003	Ankita Abhay Kulkarni	Climate Responsive Architecture
2	2K15004	Ashiwini Shivaji Ghayal	Climate Responsive Architecture
3	2K15005	Dhanashri Nityanand Kolhe	Climate Responsive Architecture
4	2K15006	Honey Shankar Ahuja	Climate Responsive Architecture
5	2K15007	Lorita Sanjay Salivkar	Climate Responsive Architecture
6	2K15008	Mrunmai Murlidhar Tatte	Climate Responsive Architecture
7	2K15009	Pallavi Gajanana Chavhan	Climate Responsive Architecture
8	2K15010	Rasika Kiran Govindwar	Climate Responsive Architecture
9	2K15011	Revati Arun Mundhada	Climate Responsive Architecture
10	2K15012	Revati Sunilrao Karale	Climate Responsive Architecture
11	2K15014	Roshani Deepak Khodaskar	Climate Responsive Architecture
12	2K15015	Rucha Manojpant Kherde	Climate Responsive Architecture
13	2K15016	Rutuja Pramodrao Shrirao	Climate Responsive Architecture
14	2K15018	Sakshi Kamalkishre Tambi	Climate Responsive Architecture
15	2K15020	Shital Bhikamchand Chandak	Climate Responsive Architecture
16	2K15022	Unnati Bhalachandra Bhelonde	Climate Responsive Architecture
17	2K15023	Vishakha Mohan Bhawrekar	Climate Responsive Architecture
18	2K15024	Abhishek Arvind Turkhade	Climate Responsive Architecture
19	2K15027	Amit Prabhakarao Padole	Climate Responsive Architecture
20	2K15028	Arjun Anant Wakode	Climate Responsive Architecture
21	2K15030	Madhur Pratim Chakrawar	Climate Responsive Architecture
22	2K15032	Mehul Dinkar Thakare	Climate Responsive Architecture
23	2K15033	NAVED FARAN MOHD RAZIQUE	Climate Responsive Architecture
24	2K15035	Pranit Pradip Wadatkar	Climate Responsive Architecture
25	2K15036	Roshan Dilip Hirulkar	Climate Responsive Architecture
26	2K15037	Sagar Suresh Salunkhe	Climate Responsive Architecture
27	2K15038	Shreyas Shrikant Deshmukh	Climate Responsive Architecture
28	2K15039	Vaibhav Vyankat Damkondwar	Climate Responsive Architecture
29	2K2014	Sumit Gajanan Balanse	Climate Responsive Architecture
30	2K15	Akshaya Dilip Jeughale	Climate Responsive Architecture
31	2K15021	Shruti Dinesh Jayade	Climate Responsive Architecture
32	2K15001	Aditi Gajanan Barwat	Climate Responsive Architecture
33	2k2011	SHAZAN PASHA SHAFEEQUE	Climate Responsive Architecture
34	2k2014	MOHINI NILESH DESHMUKH	Climate Responsive Architecture

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Free electives are offered in all the technical and professional courses of Sant Gadge Baba Amravati University. The scheme of free elective create an interdisciplinary learning for the mutual fields. This is an innovative scheme available only at Sant Gadge Baba Amravati University where in the students have to necessarily opt for an elective from departments elective list other than theirs. This inculcate habit of understanding other technologies and their relativity with the students own department or field of study. In this process the teachers also get acquainted with new practices and offer collaboration of teachers and students of various departments.

This relativity of combined knowledge would be in turn useful for the future professionals.

- **Free elective from other department.**

5 FECE 05 Introduction to Earthquake Engg./ Basics of Building Construction/ Watershed Management / 5FEME05 – Manufacturing Techniques/ Ergonomics/ Production Management/ Project Management/ 5FEPE05 – Industrial Engg./ Industrial Safety Management / 5FEEP05/5FEEX05/5FEEL05/5FEEE05 -Energy Audit & Management/Electrical Drives/ 5FEXT5@/ 5FEXN5@-ii) Fibre Optics/ 5FEIE05- Sensors & Transducers/ Advance Sensors & Transmitters/ 5FEKS05- Data Structures & Algorithms/ Data Communication and Networking/ 5FEKE05- Web Technologies/ Object Oriented Programming/ 5FEIT05- Introduction to Computer Networks/ IT Ethics & Practices/ 5FEBM05- Medical Instrumentation/ Principle of Biomaterials & Biomechanics / 5FEET5 Electronic Test Instruments / Fiber Optic & Satellite Communication

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P.R.Patil College of Architecture, Amaravti

NOTICE

Architecture Notice No.PRPCOA/ Notice/---/2016 Date :- 15/06/2016

Students this is inform that all student from B.Arch. III rd year Vth semester (2019 winter) are required to choose an elective as offered by S.G.B Amravati university as below:

1) FUNDAMENTALS OF ARCHITECTURAL DESIGN
2) LANDSCAPE ARCHITECTURE
3) EARTHQUAKE ENGINEERING

Student shall register their names with Ravindra Joshi Sir .

Principal
P.R.Patil College of Architecture
Kathora, Amravati.

Prof. Sanjay Deshmukh
PRINCIPAL

P.R.Patil College of Architecture, Amaravti

NOTICE

Architecture Notice No.PRPCOA/ Notice/---/2020 Date :- 05/01/2020

Students this is inform that all student from B.Arch. III rd year VIth semester (2020 Summer) are required to choose an elective as offered by S.G.B Amravati university as below:

1) SUSTAINABLE ARCHITECTURE
2) DISASTER MANAGEMENT
3) CLIMATE RESPONSIVE ARCHITECTURE

Student shall register their names with Ravindra Joshi Sir .

Principal
P.R. Patil College of Architecture
Kathora, Amravati.

Prof. Sanjay Deshmukh
PRINCIPAL

P.R.Patil College of Architecture, Amaravti

NOTICE

Architecture Notice No.PRPCOA/ Notice/---/2020 Date :- 05/01/2020

Students this is inform that all student from B.Arch. IV rd year VIIIth semester (2020 Summer) are required to choose an elective as offered by S.G.B Amravati university as below:

1) HOUSING
2) ENVIRONMENTAL PLANNING
3) CONSTRUCTION MANAGEMENT

Student shall register their names with Ravindra Joshi Sir .

Principal
P.R. Patil College of Architecture
Kathora, Amravati.

Prof. Sanjay Deshmukh
PRINCIPAL

P.R.Patil College of Architecture, Amaravti

NOTICE

Architecture Notice No.PRPCOA/ Notice/---/2020 Date :- 05/01/2020

Students this is inform that all student from B.Arch. Vth year Xth semester (2020 Summer) are required to choose an elective as offered by S.G.B Amravati university as below:

1) CLIMATE RESPONSIVE ARCHITECTURE
2) VERNACULAR ARCHITECTURE
3) INDUSTRIAL ARCHITECTURE

Student shall register their names with Ravindra Joshi Sir .

Prof. Sanjay Deshmukh
PRINCIPAL

P.R. Patil College of Architecture
Kathora, Amravati.