Course outcome First Year First, Second & Third Year, 2021

	COUDC	E OUTCOME. After completion of this construction of the state of the s
	COURSI CO1	E OUTCOME: After completion of this course student will be able to-
	CO1 CO2	Students will be able to develop graphical understanding of visualsStudents will be able to develop understanding towards application of color and texture
210112 -		
Architectural	CO3 CO4	Students will be able to illustrate geometric and organic forms
Design – I	04	Students will be able to create building forms through model making
Dough	CO5	Students will be able to design products with emphasis on user, purpose, material & form
	COURS	E OUTCOME: After completion of this course student will be able to-
	CO1	Students will be able to understand the use of appropriate materials for building and
210113 -		construction
Building	CO2	Students will be able to understand the detailing of building material and its
Materials		applicability
Materials	CO3	Student will be able to select appropriate building materials based on properties,
		suitability, and it's application
	CO4	Students will be able to understand the structural component and glazing methods and
		how to make fenestrations delicate with it's appropriate usage
		Students will be able to deal with effective budgeting which will reduce the cost of
	CO5	construction through use of locally available materials along with improved skills and
		technology without sacrificing the strength, performance and life of the structure.
		E OUTCOME: After completion of this course student will be able to-
	CO1	Students will be able to draw the elements of design and apply them in their drawings
	CO2	Students will be able to draw planar surface / conic sections in orthographic projections.
210114 –	CO3	Students will be able to draw solids and building elements in isometric projection.
	CO4	Students will be able to draw plans, elevations and sections.
Graphics I	CO5	Students will be able to draw interior and exterior views.
	COURSE	E OUTCOME: After completion of this course student will be able to-
	CO1	Elaborate various principles of strength of materials and behavior of forces
210115 – Structure- I	CO2	Establish relationship between the bending to the material property and geometry
Structure 1	CO3	Apply pure bending and shear equation
	CO4	Analysis the stress and strain conditions due to bi-axial stress system
	CO5	Compute stresses at various level of beam
		Compute support reactions in simply supported, cantilever and over-hang beams for
	CO6	a given set of loading
	COURSE	E OUTCOME: After completion of this course student will be able to-
	COURSI	Visualize basic concepts regarding the historical and architectural development in
	CO1	ancient civilization as an integrated expression of art, culture, vernacular material and
210116 – History	001	techniques of the place
of Architecture- I		Observe diverse artistic and architectural expressions with regard to the historical
	CO2	context in which they are developed
	-	Illustrate visual and verbal vocabularies of Indian, Egyptian, west Asiatic and Eastern
	CO3	Architecture
	CO4	Evaluate architectural forms and space with reference to technology, style and character
	CO4 CO5	Reproduce with sketches, audio and visuals various architectural forms and styles
	0.05	Develop an appreciation of varied cultures and the resulting architectural productions
	CO6	which are unique in time and place & suitable to the lifestyle of its people
	COURSE	E OUTCOME: After completion of this course student will be able to-
	CO1	Review various tools and techniques in visual communication and model making
		Incorporate basics of rendering, presentation skills & model making with various
210117 -	CO2	materials
Workshop- I	CO3	Associate properties of different materials and products for designing and model making
	CO4	Apply two dimension and three dimension compositions to designing and model making
	CO5	Produce art works from various materials individually and in team
	200	

CO6Integrate these materials in creating their design models in further str210118 - Professional CommunicationCO2Students will be able to speak effectivelyCO2Students will be able to speak effectivelyCO3Students will be able to communicate their design and ideasCO4Students will be able to construct models out of metalCO5Students will be able to construct models out of metalCO1Students will be able to construct models out of metalCO4Students will be able to construct models out of metalCO5Students will be able to discover Architectural elements & relevant in response to Space planning and Understanding the Material, form as Aesthetics & visual perceptions.210211 - Architectural Design -IICO2CO3As a result of completing Time bound Problems of 6 hours to 48 h able to maximize the potential of designing within the time frame	er on papers o- t architectural terms
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Design -II & & terms by understanding noted projects & architects a s well as Sp As a result of completing Time bound Problems of 6 hours to 48 ho	
	ace planning.
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	ours students will be
COURSE OUTCOME- After completion of this course student will be able to-	
Students will be able to deal with effective budgeting which	
CO1 cost of construction through use of locally available material	e
210212 – improved skills and technology without sacrificing the streng	gth, performance
Building and life of the structure.	
Construction-I CO2 Students will be able to depict materials and see the parts of	buildings that are
not seen otherwise	
Students will be able to understand the importance of walls	in building, how
CO3 they give security, divide available space of building to fulfil	U U
requirements and also safeguard humans from heat and cold.	
Students will be able to choose the appropriate building com	
CO4 CO4 material suitability in his/her designs	pononio min
CO5 Students will be able to use a suitable roof for their projects	
COURSE OUTCOME: After completion of this course student will be able to	
CO1 Students will be able to construct the perspective drawings of diffe	erent types and
using different methods	
210213 – Students will be able to construct two point perspective drawings	for simple objects.
Graphics-II CO2	;j,
its combinations, interior and exteriors of simple buildings	
CO3 Students will be able to Construct one point perspective drawings f	for simple objects,
its combinations and various interior spaces	
CO4 Students will be able to develop shades and shadows in 2D and 3D) drawings
	-
CO5 Students will be able to create plans, elevation sections for the same	ne
COURSE OUTCOME: After completion of this course student will be able to	
CO1 Students will able to understand the various types of structural system	
210214 – CO2 Students will be able to understand types of loads in building	gs and properties of
210214 - different materials used in structure. Structure- II CO3 Students will able to examine different reinforced cement concrete	
	5 suuctures.
(1) Students will be able to solve problems on structural machanics	
CO5 Students will be able to solve problems on structural mechanics.	
COURSE OUTCOME: After completion of this course student will be able to Students will be able to apply various temple architectural forms a	and architectulai
210215 – COL Students will be able to apply various temple architectural forms a	
210215 – COURSE OUTCOME: After completion of this course student will be able to apply various temple architectural forms a expressions in their own design. History of Students will be able to apply the North Indian temple Architectural forms and expressions in their own design.	re style and elements
210215 – COURSE OUTCOME: After completion of this course student will be able to CO1 Students will be able to apply various temple architectural forms a expressions in their own design.	re style and elements
210215 – History of History of CO2 Students will be able to apply various temple architectural forms a expressions in their own design.	-

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	CO4	Students will be able to apply elements and concepts of Islamic in their own design.
	CO5	Students will be able to apply elements of forts and palaces in their own design.
	COURSE	OUTCOME: After completion of this course student will be able to-
	CO1	Student will be able to Understand basic fundamental of design in natural and manmade environment
210216 – Theory		Students will be able to Discuss best examples of built forms and situate them in
of Design	CO2	the theoretical framework.
	CO3	Student will be able to Understand the significance of aesthetics, history in
	005	architectural design.
	CO4	Students will be able to develop architectural thinking through past and present work
		to link design & theory.
	CO5	Students will be able to Prioritize social responsibility for perfecting designs that
		improve the functions.
		E OUTCOME: After completion of this course student will be able to-
	CO1	Students will be able to create a replica model.
210217 -	CO2	Students will be able to Construct models using a CNC machine
Workshop II	CO3	Students will be able to build architectural blocks and building models.
1	CO4	Students will be able to construct detailed models.
210211	CO5	Students will be able to click professional architectural photographs
210311 Architectural	COURSE COL	OUTCOME: After completion of this course student will be able to- Students will be able to design townhouses and villas
Design – III		
6	CO2	Students will be able to design buildings related to education philosophy
	CO3/CO 4	Students will be able to maximize the potential of their designing skills within the period
		OUTCOME: After completion of this course student will be able to-
210212 Duilding	CO1	Students will be able to understand the role of metal in structure technology
210312- Building Construction - II	CO2 CO3 CO4	Students will be able to understand the technicality behind the foundation of a structure
		and its type.
		Students will be able to demonstrate their understanding through application in design
		and detailing of doors, windows & ventilators
		Students will be able to demonstrate their understanding through application in design
		and detailing of staircase & masonry.
	CO5	Students will be able to analysis application in working drawing.
210313- Graphics		OUTCOME: After completion of this course student will be able to-
– III	CO1	Students will be able to apply basic commands in AutoCAD to draw objects
	CO2	Students will be able to draw complex objects using complex commands in AutoCAD.
	CO3	Students will be able to draw measured drawings.
	CO4	Students will be able to use Photoshop to illustrate building plans, elevations, etc. professionally
210314 -	COURSE	OUTCOME: After completion of this course student will be able to-
Surveying and	CO1	Students will be able to understand and apply surveying instruments and useful formulas
Leveling		used in surveying
	CO2	Students will be able to construct various scales used in surveying
	CO3	Students will be able to apply surveying instruments for surveys
	CO4	Students will be able to apply site survey techniques and will learn how to make layout of buildings.
	CO5	Students will be able to applylevelling and contouring on site surveys.
210315- History		OUTCOME: After completion of this course student will be able to-
of Architecture-	CO1	Students will be able to apply Greek architectural expressions in their own design.
III	CO2	Students will be able to apply elements of Roman architecture in their own design.
	CO3	Students will be able to apply elements of Egyptian architecture in their own design
	CO4	Students will be able to apply elements and concepts of West Asiatic Architecture in their own design
		Students will be able to apply elements of South East & East Asian architecture in their
	CO5	own design

210316- Structures-III To interpret the structural design process and analyse design of RCC foundations for the purprese construction C02 To analyses the structural design details and reinforcement of RCC slabs and staircase for the purpose of constructural design of the purpose of construction C03 To interpret the structural design of parts and the design details of the purpose of construction C04 To interpret the structural design of columns in RCC structure and the design of that slab and their structural details 210310 C05 To interpret the structural design of columns in RCC structure and the design details using column interction diagram 210310 C04 To interpret the structural design of columns in RCC structures and the design details using columns intervention the lot bapper theories and concepts of bio minicry approaches C03 Students will be able to Apply theories and concepts of sustainability to built form and surroundings C04 Students will be able to Designing and around the built structures, without harming our ecosystem C03/C03 Students will be able to Designing and around the built structures, within the period. C01/L12 Students will be able to maximizche potential of designing within the period. C01/L12 Students will be able to maximizche potential of designing within the period. C01/L14 Students will be able to analyze different types of slab and its di		COURSE	OUTCOME: After completion of this course student will be able to-
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compound sections, compression members, lacings and battens		CO2	

	SCHEME (OF EXAMINATION - BACHELOR OF ARCHITECTURE
	CO3	Student will be able to comprehend the design of principle and secondary beams in steel construction
	CO4	Student will be able to comprehend the types, selection, estimation of load and designing of steel trusses and girders for construction
	CO5	Student will be able to learn about the use of steel in construction of various long span structures
	COURSE	OUTCOME: After completion of this course student will be able to-
		Students will be able to summarize elementary knowledge to earth's natural
210421-	CO1	environment
Elective – 1	CO2	Students will be able to highlight emerging human activities creating serious
Ecology and Environment)	02	environmental degradation
Environment)	CO3	Students will be able to relate urban ecology withsustainable technologies
		Students will be able to perceive the role of an architect/planner in sustainable
	CO4	development
	CO5	Students will be able toadapt various green/sustainable architectural techniquesin one of
		the student's design problem
		OUTCOME: After completion of this course student will be able to-
210422 -	CO1	Students will be able to relate sociology with architecture and planning
Elective – 1	CO2	Students will be able to inspect basics of traditional architecture
(Society,	CO3	Students will be able to illustrate the site specificnature of architectural design
Culture and	CO4	Students will be able to distinguish cultural change and indigenous architectural practices
Architecture)	CO5	Students will be able to ustinguish cultural change and integenous contectural practices Students will be able to apply rejuvenation in architecture
Third Year	After com	pletion of this course student will be able to-
Fifth Semester 210514	CO1	Analyze the culture of a place – building types such as the cultural center comprising
Architectural		of spaces such as the art gallery, auditorium for performing arts, library etc.
Design – V	CO2	Identify the various common building materials such as brick, concrete, steel & glass.
Design - V	CO3	Examine the same building material through Material studio.
	CO4	Illustrate with materials to find suitable artistic & commercial expressions and the learning of design methods for healthcare buildings.
	CO5	Design commercial buildings integrating entertainment spaces, where the student is given exposure to the finer aspects of auditorium design.
	CO6	Express the design with drawings and model to support the concept.
		pletion of this course student will be able to-
210515		Summarize Properties and uses of cast iron, wrought iron, pig iron and steel. Market
Building	CO1	forms of steel: Structural steel, stainless steel, steel alloys
Construction -	CO2	Identify various steel members and joints for building industry.
IV	CO3	Prepare detail drawings of steel doors, rolling shutters etc.
	CO4	Illustrate modern methods of wall and floor construction
	CO5	Design interior wall paneling and suspended ceiling detail drawings
	CO6	Summarize thermal insulation techniques, acoustical treatment details for different spaces.
	After com	pletion of this course student will be able to-
210516	CO1	Classify various technical aspects of electrical services.
Building Services-II (Electrical & Mechanical)	CO2	Summarize basic principles of illumination and practical application of lighting while designing a building
	CO3	Explain the importance, installation and working of essential services in buildings.
	CO4	Elaborate the importance and application of mechanical services while designing a
		building.
	CO5	Develop electrical distribution plans and layout for installation purposes.
	CO6	Develop a comfortable mechanical system for a building by means of various natural and mechanized measures
	After comp	pletion of this course student will be able to-
210517 Building Sciences & Energy Conservation	CO1	Classify various climatic parameters on micro and macro level of site and design shelters according to different climatic conditions.
	CO2	Elaborate the concept of thermal balance in human beings and its statistical
	<u> </u>	parameters.
Consci vation	CO3 CO4	Apply various aspects of solar geometry in building orientation.
		Apply various principles of thermal design in buildings.Develop designs considering sustainable design tools, design methodology and
	CO5	innovative approach towards eco-designs.
	CO6	Explore various design strategies for building in different type of climatic zones

		OF EXAMINATION - BACHELOR OF ARCHITECTURE
210521	· · · · · · · · · · · · · · · · · · ·	etion of this course student will be able to-
\Architectural	CO1	Identify the effects of Architecture on society
Photography & Journalism	CO2	Associate various interdependent elements.
Journalism	CO3	Apply visual recording techniques for documentation
	CO4	Illustrate the understanding through varied visual and verbal tools.
	CO5	Develop analytical thinking towards architectural evolution and its visual/verbal representation.
210522	After compl	letion of this course student will be able to-
Vernacular	CO1	Identify the effects of Architecture on a particular community.
Architecture	CO2	Associate the local customs, social systems, and climate with the evolving architecture.
	CO3	Apply the concept of Traditional knowledge systems.
	CO4	Associate the available materials and construction methods with local
		conditions
	CO5	Develop analytical thinking towards a community and its Vernacular architecture.
100005	1	etion of this course student will be able to-
Disaster	CO1	
management		Study the various seismic zones
	CO2	Understanding various terminologies like recovery, rehabilitation, response, mitigation and their execution.
	CO3	Apply strategies and technology to overcome the harmful effects of disaster. Develop a design the
		disaster resistant structures.
	After com	pletion of this course student will be able to
	CO1,	The course should enable the student to:
	CO2,	• Train the student to gather knowledge on the given design project based on books /
	CO2	literature and websites.
210621	CO4 &	• Make the student understand the complexity, functioning and salient features of
Architectural	CO5	the design project through organizing field visit, train them to document and
Design –		present the findings.
VI		• Develop design ideas and create them.
Third Year	After com	appletion of this course student will be able to
Sixth Semester		
210622 Building	CO1	To understand the principles of sound and acoustical requirements of various buildings
Services-III	CO2	To analyze the methods of sound reinforcement and noise control methods in
(Acoustic &		enclosed space
Fire	CO3	To learn the application of firefighting equipment in buildings
Fighting	CO4	To determine the significance of norms and standards in firefighting systems and its application
	CO5	To apply the principles of acoustics and firefighting systems in various building by
	A ft on oom	developing construction details and layouts for the same apletion of this course student will be able to
210623	CO1	Understanding role and importance of site planning in enhancing quality of building
Site Planning &		environment
& Landscaping	CO2	Learning about the interrelationship between nature and humans. Role of natural elements in environment
	CO3	Understanding the construction techniques of hardscape, contours, landforms and its
		application on site.
	CO4	Awareness about characteristic of various historical gardens and concepts of urban
		landscape in design
	CO5	Application of different methods in landscape practice which incorporate site planning for a specific land use
	After com	appletion of this course student will be able to
210624	CO1	Student will able to understand the various building drawings
Working	CO2	Student will be able to understand and draw various services plan used in
Drawing		architectural project.
	CO3	Student will able to understand and write various specification of material required
		during execution of a project.

	SCHEWIE U	F EXAMINATION - BACHELOK OF ARCHITECTURE
	CO4	Students will understand various materials, finishing material used in architectural
		project.
	CO5	Students will be able to develop working drawing sets for load bearing and a frame
		structure architectural Design project.
210611		pletion of this course student will be able to
Elective III	CO1	Understand the housing issues and importance of housing development
Housing	CO2	Relate the socio economic aspects of site with its housing characteristics
	CO3	Identify various housing standards, guidelines, regulations, norms, amenities, etc
	CO4	Discover modern techniques for efficient and sustainable housing
	CO5	Categories different housing design process as per desired requirements
210619	After com	pletion of this course student will be able to
Design Thinking	CO1	Students will be able to relate sociology with architecture and planning
	CO 2	Students will be able to inspect basics of traditional architecture
	CO 3	Students will be able to illustrate the site specific nature of architectural design
	CO 4	Students will be able to distinguish cultural change and indigenous architectural
		practices
	CO 5	Students will be able to apply rejuvenation in architecture
210701		pletion of this course student will be able to
Architectural Design – VII	CO1	Analyze and study, pre-design process, design process & conceptualization stages in design.
	CO2	Understand the materials and technology required to build the same.
	CO3	Understand the building byelaws and apply them to the project.
	CO4	Handle large scale buildings such as projects of progressively increasing complexity.
	CO5	Design the projects based on the concept of space and form,
		Innovate Visualization of projects using computer software is
210702 4 1	A. C.	also acquired.
210702 Adv.		pletion of this course student will be able to
Building	CO1	Study behaviors of various non-conventional and long span structures
Construction	CO2	Understand the concept of Shells and Space Frames.
	CO3	Design and detailing of building materials and components developed by
		research organizations like CBRI, SERC, NBO & BMTPC
	CO4	Appreciate the difference between RCC and pre stressed concrete.
	CO5	Identify appropriate tall structural systems, shells and folded plates and tensile
		structure for the space coverage
210703		pletion of this course student will be able to
Project Manageme	CO1	Know about the methodology of executing a project.
nt &	CO2	Understand the fundamentals of economics, Land economics and financing.
nt & Building	CO3	Compute the money values and demand forecasting.
economics	CO4	Develop valuation of property/building through various valuation methods.
	CO5	Enhance the professional ability as an architect.
210704		bletion of this course student will be able to
Estimating	CO1	Write specifications for various items of civil works with a view of controlling
and Costing	CO2	quality of work executed at site. Acquire sufficient knowledge of estimation in order that he/she could advice
&	02	
Specification		prospective clients on project viability and also monitor/ control project cost.
S	CO3	Analyze different types of estimates and their suitability to different kinds of works.
	CO4	Calculate the quantity of different items of work using various estimating methods.
	CO5	Prepare BOQ's for item rate contract.
	CO6	Calculate the approximate estimate, detailed estimate for small scale building
		projects and low cost housing.
	1.0 1	ation of this second student will be able to
21708	After comp	etion of this course student will be able to
21708	After compl CO1	Elaborate the concepts of eminent Town planners and their contribution to planning thought.

		OF EXAMINATION - BACHELOK OF AKCHITECTUKE
	CO2	Create an overall understanding of classification of settlements, land-use, zoning and
Planning		types of development plan.
	CO3	Apply simple Town planning techniques.
_	CO4	Explore settlements, land-use, zoning, types of development plan.
-	CO5	Develop an appreciation of the planning issues involved at the scale of a town or a city.
210801	After con	npletion of this course student will be able to
210001		
Architectural	CO1	Formulate an intellectual position, explored through architectural design, which
	001	reconciles
Design –		the development of a critical brief with spatial and functional criteria.
VIII		Conceptualize a brief for a design project, which, through engagement with a series of
	CO2	contexts, seeks to provide a critique of the built environment by proposing alternative
	002	
		spatial, formal, organizational or material solutions.
	CO3	Synthesize a design solution, which combines appropriate architectural expression,
		cultural response and the fulfillment of the functional requirements of a brief.
		Produce appropriate drawings, models and other media of an architectural design
	CO4	which explore, test and express its qualities of space, form, organization and response
		to physical and other contexts.
	CO5	Integrate appropriate technologies concerning structure, materiality and services into
		the design proposal.
-	CO6	Effectively communicate the design or designs through an exhibition incorporating
		drawings, models, texts and other appropriate media.
210802	After con	npletion of this course student will be able to
Urban Design		
Ū –	CO1	Know about the urban forms and spaces.
	CO2	Understand the urban design issues at the city level.
	CO3	Analyze the difference between the history and the contemporary needs.
	CO4	Develop the strategies that are commonly required to overcome the urban issues.
	CO5	Develop understanding and strategies towards the society. They will be conversant with
		the problems in community living and how to address the same.
		npletion of this course student will be able to
Professional	CO1	Identify the principal legislative, technical and professional factors influencing the
Practice & Ethics		design strategy of a building project.
Ethics	CO2	Describe the components and organizational structures and their interrelationships.
_	CO3	Define the issues that an architect will consider with reference to building contract law
	CO4	Determine the factors effecting cost
	CO5	Explain the procedures to be followed for compliance with planning and building control regulations.
	After co	mpletion of this course student will be able to
210804	CO1	Understand the fundamentals of Research methods before attempting final year Project
Dissertation	001	Thesis.
	CO2	Study and develop basic research principles and research methods.
	CO3	Develop a sustained and coherent argument on an agreed topic, supported by both
		secondary and primary sources
	CO4	Communicate the result of a systematic programme of research with clear identification
		of the topic, research issues, the context and the theoretical perspectives.
		Evaluate significant information sources referred to and draw coherent conclusions
-	CO5	Evaluate significant information sources referred to and draw coherent conclusions relevant to the topic and issues initially identified, from the observations, evidence and
-	CO5	relevant to the topic and issues initially identified, from the observations, evidence and
-	CO5	