# Madhav Institute of Technology & Science, Gwalior

**(A Govt. Aided UGC Autonomous Institute Affiliated to RGPV, Bhopal)**

SCHEME OF EXAMINATION - **BACHELOR OF ARCHITECTURE**

**Course outcome First Year First, Second & Third Year, 2020**

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| 210101 - Architectural Design – I | COURSE OUTCOME: After completion of this course student will be able to- | |
| | CO1 | Identify the elements and principle of design theory |
| | CO2 | Associate various graphical elements |
| | CO3 | Apply principle of design/additive & subtractive form (using 2d/ 3d compositions) |
| | CO4 | Illustrate the color theory principles using color compositions & texture |
| | CO5 | Evaluate the geometric & organic forms (2D & 3D in building) |
| | CO6 | Develop analytical thinking towards spatial analyses of visual culture |
| 210102 - Architectural Materials | COURSE OUTCOME: After completion of this course student will be able to- | |
| | CO1 | Classify different types of building materials used primarily in building construction work |
| | CO2 | Analyze building materials and its influence on prevailing architectural styles |
| | CO3 | Illustrate specific use of materials and ascertain their application |
| | CO4 | finalize specific building materials for different types of buildings |
| | CO5 | Consider local material and its application techniques for low cost construction |
| | CO6 | Integrate the market survey of different types of material |
| 210103 – Graphics I | COURSE OUTCOME: After completion of this course student will be able to- | |
| | CO1 | Visualize the language of architecture & buildings through as two dimensional and three dimensional representations |
| | CO2 | Interpret architectural geometry by applying fundamental principles of drawing |
| | CO3 | Develop the capability of ideation and 3D modeling using drafting tools |
| | CO4 | Describe spatial relationship using sequential thinking |
| | CO5 | Solve basic problems involving graphics and spatial manipulations for architectural applications to represent the future forms of her/his projects |
| | CO6 | Express her/his ideas by drawing using representation techniques and tools in the spatial concept and |
| 210108 – Structure- I | COURSE OUTCOME: After completion of this course student will be able to- | |
| | CO1 | Elaborate various principles of strength of materials and behavior of forces |
| | CO2 | Establish relationship between the bending to the material property and geometry |
| | 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 |
| | CO6 | Compute support reactions in simply supported, cantilever and over-hang beams for a given set of loading |
| 210105 – History of Architecture- I | COURSE OUTCOME: After completion of this course student will be able to- | |
| | CO1 | Visualize basic concepts regarding the historical and architectural development in ancient civilization as an integrated expression of art, culture, vernacular material and techniques of the place |
| | CO2 | Observe diverse artistic and architectural expressions with regard to the historical context in which they are developed |
| | CO3 | Illustrate visual and verbal vocabularies of Indian, Egyptian, west Asiatic and Eastern Architecture |
| | CO4 | Evaluate architectural forms and space with reference to technology, style and character |
| | CO5 | Reproduce with sketches, audio and visuals various architectural forms and styles |
| | CO6 | Develop an appreciation of varied cultures and the resulting architectural productions which are unique in time and place & suitable to the lifestyle of its people |
| 210107 – Workshop- I | COURSE OUTCOME: After completion of this course student will be able to- | |
| | CO1 | Review various tools and techniques in visual communication and model making |
| | CO2 | Incorporate basics of rendering, presentation skills &model making with various materials |
| | 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 |

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| | CO6 | Integrate these materials in creating their design models in further studies |
| 210109 – Technical English | COURSE OUTCOME: After completion of this course student will be able to- | |
| | CO1 | Speak clearly effectively and appropriately in a public forum to a variety of audiences and purposes (LOTS1) |
| | CO2 | Prepare and deliver oral presentations and arguments acceptable within the Engineering Profession effectively (LOTS3) |
| | CO3 | Demonstrate knowledge and comprehension of major text and traditions in language as well as its social, cultural and historic context (LOTS3) |
| | CO4 | Read a variety of text critically and analytically so as to demonstrate in writing and / or speech the interpretations of those texts (HOTS4) |
| | CO5 | Interpret text written in English assessing the result in written and oral arguments using appropriate material for support (HOTS3) |
| | CO6 | Implement professional work habits, including those necessary for effective collaboration and corporation with others (HOTS4) |
| 210201 – Technical English | COURSE OUTCOME: After completion of this course student will be able to- | |
| | CO1 | Interpret architectural design fundamentals (Relationship between people to built forms & built forms to environment) |
| | CO2 | Summarize different functional spaces and their space requirements |
| | CO3 | Identify human standards of design based on ergonomics |
| | CO4 | Analyze pre-design process, design process & conceptualization stages in design |
| | CO5 | Design objects based on the concept of space and form by modifying and evaluating an existing space |
| | CO6 | Express their designs through communication skills – verbal, script & graphics |
| 210202 – Building Construction- I | COURSE OUTCOME- After completion of this course student will be able to- | |
| | CO1 | Elaborate materials and systems, their properties and applications, and their intrinsic relationship to structural systems and environmental performance |
| | CO2 | Compare the material and construction techniques through site visit and market surveys |
| | CO3 | Develop a fundamental understanding of the relationship of materiality to construction systems and techniques |
| | CO4 | Illustrate basic components of a building with its construction details such as Foundation Footing, Wall section, Roofs, and Interior details |
| | CO5 | Produce detail construction drawings sets of building components and construction techniques |
| 210202 – Graphics- II | COURSE OUTCOME: After completion of this course student will be able to | |
| | CO1 | Communicate their ideas through various drawings |
| | CO2 | Visualize the design ideas from various angles |
| | CO3 | Represent advance drawing techniques involving perspective, sciography |
| | CO4 | Produce architectural drawings using perspective, sciography |
| | CO5 | Prepare Measured Drawing of any historical building |
| | CO6 | Integrate these techniques in creating their design drawings in further studies |
| 210208 – Structure- II | COURSE OUTCOME: After completion of this course student will be able to | |
| | CO1 | Identify the concept of various structural elements and system |
| | CO2 | Illustrate the use of different structural systems in building industry |
| | CO3 | Analyze the structural geometry based on strength and stability criteria |
| | CO4 | Appraise the built environment based on specific structural system |
| | CO5 | Analyze simple structural behavior using bending moment and shear force diagrams |
| | CO6 | Apply basic principles of structural mechanics |
| 210208 – | COURSE OUTCOME: After completion of this course student will be able to- | |
| | CO1 | Summarize basic concepts regarding the historical and architectural development in ancient India |
| | CO2 | Observe the diverse artistic and architectural expressions with regard to the historical context |

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| History of Architecture- II | CO3 | Illustrate visual and verbal vocabularies of Indian Architecture |
| | CO4 | Analyze the diversity of imperial Indian Temple Architecture, Indian Mosques, Tombs, Forts, Cities, etc. including the buildings viewed as architectural masterpieces, and their urban settings |
| | CO5 | Appreciate varied culture resulting in architectural productions which are unique in time and place & suitable to the lifestyle of its people |
| | CO6 | Reproduce with sketches, audio and visuals various architectural forms and styles |
| 210206 – Theory of Design | COURSE OUTCOME: After completion of this course student will be able to- | |
| | CO1 | Integrate the design communication skills to enable to put forth the design ideas in graphics and literature |
| | CO2 | Interpret the ideologies from works of architects and planners |
| | CO3 | Develop awareness of the natural and built environments (past and present) through critical observation |
| | CO4 | Analyze ideas from abstract thinking |
| | CO5 | Develop an approach to architectural thinking |
| | CO6 | Apply theoretical aspects of design to architectural design |
| 210207 – Workshop II | COURSE OUTCOME: After completion of this course student will be able to- | |
| | CO1 | Incorporate basics of rendering, presentation skills &model making with various materials |
| | CO2 | Appreciate three dimensional implications of design and techniques of model making |
| | CO3 | Criticize the properties of different materials for various products for designing and model making |
| | CO4 | Review requirements and design consideration of complementing field of architecture and designing such as photography and set designing |
| | CO5 | Develop small scale models using various building construction techniques |
| | CO6 | Design a functional model for real life situation |
| 210311 Architectural Design – III | COURSE OUTCOME: After completion of this course student will be able to- | |
| | CO1 | Students will be able to design townhouses and villas |
| | 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 |
| 210312- Building Construction - II | COURSE OUTCOME: After completion of this course student will be able to- | |
| | CO1 | Students will be able to understand the role of metal in structure technology |
| | CO2 | Students will be able to understand the technicality behind the foundation of a structure and its type. |
| | CO3 | Students will be able to demonstrate their understanding through application in design and detailing of doors, windows & ventilators |
| | CO4 | 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 – III | COURSE OUTCOME: After completion of this course student will be able to- | |
| | 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 - Surveying and Leveling | COURSE OUTCOME: After completion of this course student will be able to- | |
| | CO1 | Students will be able to understand and apply surveying instruments and useful formulas 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. |
| | COURSE OUTCOME: After completion of this course student will be able to- | |
| | CO1 | Students will be able to apply Greek architectural expressions in their own design. |

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| 210315- History of Architecture-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 |
| | CO5 | Students will be able to apply elements of South East & East Asian architecture in their own design |

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| 210316- Structures-III | COURSE OUTCOME: After completion of this course student will be able to- | |
| | CO1 | To interpret the structural design process and analyse design of RCC foundations for the purpose construction |
| | CO2 | To analyses the structural design details and reinforcement of RCC slabs and staircase for the purpose of construction |
| | CO3 | To interpret the load calculation for structural design of beams and lintel in RCC structure and analyses their structural design details for the purpose of construction |
| | CO4 | To interpret the structural design of columns in RCC structure and the design details using column interaction diagram |
| | CO5 | To interpret the design of flat slab and their structural details |
| 210310 Biology for Architects | CO1 | Students will be able to Define basic elements and principles of bio mimicry approaches |
| | CO2 | Students will be able to Analyze natural environment and surrounding to achieve bio mimicry in architecture |
| | CO3 | Students will be able to Experiment three dimensional patterns to achieve low energy consumption in buildings |
| | CO4 | Students will be able to Apply theories and concepts of sustainability to built form and surroundings |
| | CO5 | Students will be able to Designing and around the built structures, without harming our ecosystem |
| Second Year Fourth Semester 210413 Architecture Design – IV | COURSE OUTCOME: After completion of this course student will be able to- | |
| | CO1 | Students will be able toanalyzedata collected with relevance to the project by identification of a suitable design intervention that would improve the quality of life |
| | CO2 | Students will be able to explore concepts and agglomeration of simple spaces with particular emphasis on the special needs of elderly, handicapped, etc. |
| | CO3/CO 4 | Students will be able tomaximizethe potential of designing within the period. |
| 210414- Building Construction – III | COURSE OUTCOME - After completion of this course student will be able to- | |
| | CO1 | Students will be able to understand the role of concrete in structure technology |
| | CO2 | . Students will be able to understand the technicality behind the foundation of a structure and its type |
| | CO3 | Students will be able to analyze different types of slab and its different types on a structure. |
| | CO4 | Students will be able to demonstrate their understanding through application in working drawing of basements ,retaining wall expansion joints |
| | CO5 | Students will be able to analyze different finishing material in a project |
| 210415 - Building Services-I(Water supply & Sanitation) | COURSE OUTCOME: After completion of this course student will be able to- | |
| | CO1 | Students will be able to identify the significance of water supply in urban and rural areas, its methods and requirements |
| | CO2 | Students will be able to develop the understanding of drainage systems in buildings and its application |
| | CO3 | Students will be able to analyze the significance of solid waste management in cities and their sustainable methods |
| | CO4 | Students will be able to evaluate the sustainable methods of processing solid waste and strategies for waste management at city level |
| | CO5 | Students will be able to compare and develop the plumbing layout of various types of building |
| 210416 - History of Architecture-IV | COURSE OUTCOME: After completion of this course student will be able to- | |
| | CO1 | Students will be able to apply Industrial revolution architectural expressions in their own design |
| | CO2 | Students will be able to apply elements of modernism style in Architecture in their own design. |
| | CO3 | Students will be able to apply elements of DE constructivist style in Architecture in their own design |
| | CO4 | Students will be able to apply elements and concepts of Neo-modernism & Postmodernism reactions in Architecture in their own design |

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| | CO5 | Students will be able to apply elements of Colonial, Post-Colonial & Contemporary style in Indian Architecture in their own design |
| 210417 - Structures-IV | COURSE OUTCOME: After completion of this course student will be able to- | |
| | CO1 | Student will be able to understand the behavior of steel in construction, its forms and use in different structures |
| | CO2 | Student will be able to understand the methods of designing angle sections, single and compound sections, compression members, lacings and battens |
| | 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 |
| 210421- Elective – 1 Ecology and Environment) | COURSE OUTCOME: After completion of this course student will be able to- | |
| | CO1 | Students will be able to summarize elementary knowledge to earth's natural environment |
| | CO2 | Students will be able to **highlight** emerging human activities creating serious environmental degradation |
| | CO3 | Students will be able to **relate** urban ecology withsustainable technologies |
| | CO4 | Students will be able to **perceive** the role of an architect/planner in sustainable development |
| | CO5 | Students will be able to**adapt** various green/sustainable architectural techniquesin one of the student's design problem |
| 210422 - Elective – 1 (Society, Culture and Architecture) | COURSE OUTCOME: After completion of this course student will be able to- | |
| | CO1 | Students will be able to **relate** sociology with architecture and planning |
| | CO2 | Students will be able to**inspect** basics of traditional architecture |
| | CO3 | Students will be able to **illustrate** the site specificnature of architectural design |
| | CO4 | Students will be able to**distinguish** cultural change and indigenousarchitectural practices |
| | CO5 | Students will be able to**apply** rejuvenation in architecture |
| Third Year Fifth Semester 210501 Architectural Design – V | After completion of this course student will be able to- | |
| | CO1 | Analyze the culture of a place – building types such as the cultural center comprising of spaces such as the art gallery, auditorium for performing arts, library etc. |
| | CO2 | Identify the various common building materials such as brick, concrete, steel & glass. |
| | 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. |
| 210502 Building Construction - IV | After completion of this course student will be able to- | |
| | CO1 | Summarize Properties and uses of cast iron, wrought iron, pig iron and steel. Market forms of steel: Structural steel, stainless steel, steel alloys |
| | CO2 | Identify various steel members and joints for building industry. |
| | 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. |
| 210503 Building Services-II (Electrical & Mechanical) | After completion of this course student will be able to- | |
| | CO1 | **Classify** various technical aspects of electrical services. |
| | 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 |
| 210504 | After completion of this course student will be able to- | |
| | CO1 | **Classify** various climatic parameters on micro and macro level of site and design shelters according to different climatic conditions. |

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| Building Sciences & Energy Conservation | CO2 | **Elaborate** the concept of thermal balance in human beings and its statistical parameters. |
| | CO3 | **Apply** various aspects of solar geometry in building orientation. |
| | CO4 | **Apply** various principles of thermal design in buildings. |
| | CO5 | **Develop** designs considering sustainable design tools, design methodology and innovative approach towards eco-designs. |
| | CO6 | **Explore** various design strategies for building in different type of climatic zones |

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| 210601 Architectural Design – VI | After completion of this course student will be able to | |
| | CO1 | **Summarize** basic concept of spatial planning of different types of buildings such as Hospitality and Infrastructure projects |
| | CO2 | **Apply** large span structural systems in design |
| | CO3 | **Apply** building bye laws in building design**.** |
| | CO4 | **Apply** various essential services in complex buildings. |
| | CO5 | **Analyze** the project with respect to various environmental parameters. |
| | CO6 | **Design** Hospitality and Infrastructure projects |

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| Third Year Sixth Semester 210602 Building Services-III (Acoustic & Fire Fighting | After completion of this course student will be able to | |
| | CO1 | **Summarize** concept of acoustics and its various aspects . |
| | CO2 | **Identify** effect of noise while designing a building. |
| | CO3 | **Apply** basic concept of firefighting systems in different types of buildings. |
| | CO4 | **Identify** various suitable sound insulation materials and techniques for construction . |
| | CO5 | **Apply** the basic principles of acoustics in design. |
| | CO6 | **Explore** various techniques of firefighting services in large scale buildings. |
| 210608 Site Planning & Landscaping | After completion of this course student will be able to | |
| | CO1 | **Summarize** various elements of landscape architecture and design. |
| | CO2 | **Analyze** different aspects of landscape architecture history through various design principles of urban landscape. |
| | CO3 | **Examine** various parameters of site analysis along with different site influencing factors like topography, hydrology, soil ,landforms etc. |
| | CO4 | Illustrate contours as representation of landforms and its application in analysis of various physical characteristics like grading, drainage pattern, etc. |
| | CO5 | Apply the various techniques in landscape exercise which includes different site planning projects. |
| 210604 Working Drawing | After completion of this course student will be able to | |
| | CO1 | Analyze various finishing materials along with their installation methods. |
| | CO2 | Illustrate various relevant architectural and structural layouts of respective buildings |
| | CO3 | Incorporate various specification aspects during execution of a project. |
| | CO4 | Develop necessary service layout plans of different buildings. |
| | CO5 | Produce working drawing sets for load bearing and a frame structure architectural Design project. |
| 210611 Elective III Housing | After completion of this course student will be able to | |
| | CO1 | Comprehend the history, demand, policies, and various stakeholders in housing. |
| | CO2 | Define the socio-economic aspects, schemes and reconstruction process. |
| | CO3 | Identify various housing standards, guidelines, regulations, norms, amenities, etc. |
| | CO4 | Summarize modern housing construction techniques in context of changing scenario and globalization. |
| | CO5 | Elaborate design process, stages, tasks, methods, approaches of different type of housing projects with respect to varying requirements. |
| | CO6 | Apply the housing principles hereafter. |
| **210614** | After completion of this course student will be able to | |
| | CO1 | Elaborate basic concepts of journalism with the main focus on various aspects of architectural journalism. |

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SCHEME OF EXAMINATION - **BACHELOR OF ARCHITECTURE**

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| Architectural Journalism | CO2 | Analyze theoretical and contextual needs for conducting journalism through research |
| | CO3 | Prepare architectural report (critical, appraisal or research) of a project. |
| | CO4 | Prepare architectural photography report |
| 210701 Architectural Design – VII | After completion of this course student will be able to | |
| | **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 also acquired. |
| 210702 Adv. Building Construction | After completion of this course student will be able to | |
| | **CO1** | Study behaviors of various non-conventional and long span structures |
| | **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 Project Management & Building economics | After completion of this course student will be able to | |
| | **CO1** | **Know** about the methodology of executing a project. |
| | **CO2** | **Understand** the fundamentals of economics, Land economics and financing. |
| | **CO3** | **Compute** the money values and demand forecasting. |
| | **CO4** | **Develop** valuation of property/building through various valuation methods. |
| | **CO5** | **Enhance** the professional ability as an architect. |
| 210704 Estimating and Costing & Specifications | After completion of this course student will be able to | |
| | **CO1** | Write specifications for various items of civil works with a view of controlling quality of work executed at site. |
| | **CO2** | Acquire sufficient knowledge of estimation in order that he/she could advice prospective clients on project viability and also monitor/ control project cost. |
| | **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. |
| 21708 Urban Planning | After completion of this course student will be able to | |
| | CO1 | **Elaborate** the concepts of eminent Town planners and their contribution to planning thought. |
| | CO2 | **Create** an overall understanding of classification of settlements, land-use, zoning and 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 Architectural Design – VIII | After completion of this course student will be able to | |
| | **CO1** | **Formulate** an intellectual position, explored through architectural design, which reconciles the development of a critical brief with spatial and functional criteria. |
| | **CO2** | **Conceptualize** a brief for a design project, which, through engagement with a series of contexts, seeks to provide a critique of the built environment by proposing alternative 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. |

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| | **CO4** | **Produce** appropriate drawings, models and other media of an architectural design 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 Urban Design | After completion of this course student will be able to | |
| | **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**.** |
| 210803 Professional Practice & Ethics | After completion of this course student will be able to | |
| | **CO1** | **Identify** the principal legislative, technical and professional factors influencing the design strategy of a building project. |
| | **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. |
| 210804 Dissertation | After completion of this course student will be able to | |
| | **CO1** | Understand the fundamentals of Research methods before attempting final year Project 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. |
| | **CO5** | Evaluate significant information sources referred to and draw coherent conclusions relevant to the topic and issues initially identified, from the observations, evidence and arguments presented. |
| | **CO6** | Develop the skill of report writing. Prepare a Dissertation report |