

Course	Course Description
AED: Basic Design Studio	The course presents a framework of knowledge and sense on basic elements and principals of design. Through studio, students will apply principles of composition such as proportion, balance, rhythm, contrast, emphasis and hierarchy by forming 2D planar and 3D spatial compositions using sketching, drawing, colouring, crafting and modelling skills. Students will also experience the fundamental parameters of Interior Design: Program, form, space, structure, context, user and aesthetics. These parameters expose student to different scenarios where he/she is supposed to creatively solve problems and generate innovative design ideas. Students are initiated to communicate and debate their design proposals within design reviews and jury sessions.
AED112: Basic Design Studio II	The course presents a framework of knowledge on anthropometric & ergonomics, scale & proportions, space and spatial organization, and sense of place. Through studio, students will apply anthropometric measurements and explore ergonomic designs. Students will be exposed to the fundamental parameters of defining space and composition of space using spatial organization principles. These parameters expose student to different scenarios where the student is supposed to creatively solve problems and generate innovative design ideas. Students are initiated to communicate and debate their design proposals within design reviews and jury sessions.
ARE211: Architecture Design I	Functional Responsive Design The course aims to emphasize the design relationship between form, space and function. The process of designing is an inquiry involving hands-on activity. The students will design the space to meet the functional requirements. In the studio, we explore human scale, function-spatial relationships, and place-making through the use of light and form. The students will be sketching, drawing perspectives, creating models, and projecting sections and elevations from the floor plans. Participate in field trips to get a sense of scale and experience in architecture.
ARE212: Architecture Design II	Community Responsive Design: A large proportion of our human experience and social interaction occurs in the buildings in which we live and work. This course examines how to develop an architectural design for small social and cultural groups. During the course, students are guided to understand the user requirements and translate the design brief according to community values and needs. The process will use questionnaires, interviews, observation, and other methods to understand the user needs of a selected socio-cultural group. The students will also be exposed to some theories like personal space, defensible space, environment & social behavior to develop a basis for community architecture. As 6 part of the skill development process, a reference project will be evaluated to understand the genesis of ideas and how they are transformed into creative concepts and spatial arrangements that are responsive to specific user categories. The project will focus on a multi-functional building and students will use digital tools to create drawings that emphasize proper drawing conventions. The students will explore integrating short and medium span structural system with low-rise construction and various construction materials.
ARE311: Architecture Design III	Climate Responsive Design: The course examines and analyses the design process from a perspective of environmental design. It considers environmental issues that demand architectural solutions. The students consider aspects of human comfort, green building, energy efficiency, climate responsive design, construction technology, and bylaws when creating design concepts. As part of their design solutions, students are guided to consider environmental conservation, recycling, and waste management considerations. The complexity of the projects will produce single function, multiple activities, multiple buildings. The design will explore medium span structures using different sustainable composite construction materials and techniques. Field trips will be arranged to gain experience in sustainable design and waste management.
ARE312: Architecture Design IV	High-tech Design: This studio will focus on exploring smart buildings and high-tech architecture. Redefining the role of state-of-art technologies and building systems integrated with new spatial concepts in generating architecture. Exploring level of integration between building enclosure [façade], building structure [structure



	& construction], building services [MEP] and the Space [volume] while responding to building by-laws and fire regulations. Students shall work individually on an advanced building design focusing on commercial, hospitality and health-based activities with a medium scale, multi-storey [maximum 20 storeys] development. It is expected that the students produce a design developed to an appropriate level of technical resolution (circulation systems, technical services systems and layouts, firefighting & safety requirements) as evident in their drawings and construction proposals. Students shall demonstrate an understanding of formal ordering and building-concept development as related to the tectonic form determinants.
ARE411: Architecture Design V	Socio-cultural Design Research: This studio will formulate the first part of design research studio sequence with final architecture graduation design project. Student will generate the design brief as response to socio-cultural values, political concepts & economic issues related to build environment. The emphasis to create a critical architectural research approach with critical reviews of case studies, data analysis, research finding and develop the concept with strong theoretical support. The complexity of the projects will produce multiple function, multiple activities, high density, multiple buildings integrating master planning skills and to produce a preliminary schematic design.
ARE412: Architecture Design VI	Sustainable Design Research: This studio will formulate the second part of design research studio sequence with final architecture graduation design project. The focus will be on developing a design that requires sustainable and environmentally responsive solution. The design brief is generated as response to environmental comfort issues, environmental issues, energy related issues, environmental disaster issues, resources issues, and ecological issues. Apart from exploring theories, technologies and techniques, the students will be guided to prepare a performance-based-analysis of their sustainable design solutions using building simulation or green building rating tools.
ARE511: Architecture Design VII	Urban Context Design Research: This studio will formulate the third part of design research studio sequence with final architecture graduation design project. The emphasis is placed on developing a design capability at a range of smaller scale – urban block (precinct) by assessing the urban landscape elements (including streets, squares, linkages, and urban amenities) and urban form in creating sustainable and liveable cities. The subject will provide an opportunity for students to evaluate, define, interpret, and approach problem solving and to suggest a creative, practical, and sustainable solutions to a range of typical urban design problems. The students will also be exposed to some theories like personal space, defensible space, environment & social behavior, and urban conservation theories to develop a basis for urban context responsive design. Case studies will be within urban Brownfield, waterfronts, city centres, new towns, and other emerging urban spatial entities. The students will make visits to public buildings or similar nature of projects to gain experience and understanding of their operations.
ARE512: Graduation Project Design	This is the culminating studio of the Architecture degree and provides students with the opportunity to develop a complex and comprehensive architectural project that builds upon knowledge gained from the preceding projects either in socio-cultural design research (Architecture Design V) OR sustainable design research (Architecture Design VI) OR urban context design research (Architecture Design VII). The students will develop a comprehensive and innovative schematic design emphasizing a complete design process, site planning, space planning, integration of technologies, construction and structural understanding, building regulations and sustainable design solution supported by findings from graduation project research.
AED121: Engineering Mathematics	The course prepares students to develop their basic concept of mathematics and its applications in engineering disciplines. The course work includes matrices operations and methods to solve engineering problems, system of linear equations, trigonometric functions and applications, it covers also the fundamentals of differentiation and integration and their applications in engineering area. The course will cover the basic knowledge and skills of mathematics needed for the next levels of study.

AED122: Building Physics & Material Properties	This course contains two main parts. In the first, the students recall their knowledge of physics relative to buildings, such as heat transfer, light properties, sound behavior, airflow, and fluid mechanics. The course provides an understanding of physics and their influences and application in the building design. In the second part, the subject will cover aspects of thermal, optical, acoustical properties of building materials. The knowledge on material properties will enhance their understanding of selecting material for different requirements of the design.
ARE221: Building Construction, I	The course provides an understanding of various construction systems and structures methods by differentiating between features and properties of each. Students will be able to recognize the parameters and advantages and disadvantages of these systems and available options and materials. The course enables students to select the appropriate structure system for their architecture projects specially with wide-space structures. The topics cover bearing walls and framed building structures including brick, block, concrete and steel, to wood structures. Design and construction issues related to structural and non-structural building components will be discussed including foundations, floors, staircases, openings, dampness and insulation works are further explored. This course delivers real life practical skills of executing building models using real structural drawings and materials.
ARE222: Building Construction II	Introduction to the concepts and elements of architectural detailing. The course will focus on exterior and interior wall details and finishing materials, floor details, door and window details and roof details. The course also will introduce the details of installing insulation and dampness with building elements. It also exposes the students to an awareness of the purpose of building codes and their implications on design considerations. This course delivers real life practical skills of executing architectural detail models.
ARE223: Land Surveying	The course introduces the fundamentals of land surveying as well as measurements and instruments, it is an introductory course to plane surveying as related to the construction industry. The course enables students to learn how to measure, record, adjust and calculate directions, distances and elevations using standard field instruments like distance measurement tools, compass, theodolite, level, and total station. Topics are designed to cover basics of linear measurements (observations, corrections and calculations), surveying mathematics, map scale, basic error theory in measurements, traverse field techniques and levelling works & applications.
ARE321: Passive and Active Climatic Design	In this course, students are introduced to the tools and information necessary to conceptualize climatic responsive designs. Students will learn more about how climate affects architectural design through detailed discussions. The class will cover the following topics: global climate factors, elements of climate, building orientation, thermal exchange through the building envelope, shading strategies, natural ventilation, and active climate strategies such as BIPV, geothermal energy, and wind energy. The students will investigate climatic responsive design using scale models and real building data and engage in interactive, hands-on activities. .
ARE322: Construction Drawing, I	This course investigates the professional significance of drawings as a mean of introduction for architectural communication on the site plan, shapes the design of architecture by digital techniques. Students engage a wide variety of drawings to represent plans, sections, elevations, site plans, and details. The course integrates the content of the preceding visualization sequence 14 courses while allowing students to expand their representational repertoires and develop individual expressive approaches.
ARE323: Building Services	This course covers the fundamental understanding of building services through the scope of external supply and internal network in the building. It will provide an overview of the various issues that have to be adequately combined to offer the occupants physical, functional and psychological well-being. It will discuss topics related to hot and cold water, sanitary systems, elevators & escalators, active firefighting systems and communication systems. Students will be



	exposed to different green building rating systems as a tool to evaluate building water usage and recycle systems in buildings.
ARE324: Structural Analysis and Application	The course demonstrates equilibrium of rigid bodies and the analysis of statically determinate structures. It provides an introduction to structural systems and basic theories and analysis methods of beams, frames, trusses and arch structures. It illustrates building structures components including the different types of structural elements, loads, forces and support types. The course contents include the calculation of reactions in determinate beams, frames, trusses and arch structures. It enables students to analyse and draw of the internal straining action diagrams of normal force (N.F.D), shear force (S.F.D) and the Bending Moment (B.M.D) for determinate beams and frames.
ARE421: Sustainable Indoor Environment	The course considers the study of the thermal and luminous behavior of buildings. It will address the following contents: basics of HVAC systems, basics of artificial lighting system and acoustics. Students will be exposed to energy use, energy conservation and different green building rating systems as a tool and other techniques to evaluate building environmental performance.
ARE422: Building Materials	Study of the basic physical, mechanical and non-mechanical properties of building materials used in construction such as steel, concrete, cement and other common building materials. The course study the essential common building materials such as aggregates, cement, steel, concrete, etc. Description of testing methods and their standards. Classification of natural and manufactured building materials. Material behavior and deterioration under natural conditions. Furthermore, exposes the students to understand the thermal, acoustical properties of building materials, lifecycle analysis of materials.
ARE423: Construction Drawings, II	This course provides advance technical drawings for the site plan after the introduction to the key to drawings in level I, produce documents for buildings, urban and landscape contexts in connection with national and international codes for sustainability, green buildings, and technologies details of constructions. Assignments and site visits provide students the opportunity to work practically with a wide variety of tools digitally with emerging computer-driven technologies in order to enrich the students' skills and align their background about the documents' needs for projects.
ARE424: Structural Design	The course provides the principles of analysis and design of reinforced concrete (RC) structural elements based on the British Standard for the design reinforced concrete BS-8110. It includes load distribution in reinforced concrete buildings, limit state analysis, analysis and design of the typical structural elements in the building: slabs, beams, columns and foundations. the course demonstrates steel detailing and the serviceability requirements for reinforced concrete elements.
ARE425: Building Performance Analysis	This is an introductory course in energy use and energy efficiency in buildings. After taking this subject, students will understand how energy is used in buildings, the thermal, cooling loads & lighting loads of buildings, as well as being able to creatively employ their 17 understanding of energy fundamentals and knowledge in energy use in buildings, innovatively in their design projects. Students will learn about several building simulation programs and investigate the buildings' performance through them.
ARE521: Shop Drawing	The course provides specialized knowledge of drawings related to the architectural and interior design fields. This course aims to teach students how to represent the drawings with more accurate and detailed finishing, their functionality. The subject also provides them with the



	professional skills to prepare the drawings that fit the needs of higher-level or standards of buildings with all structural elements and dimensions with details using the digital programs. Students at the end of this course will be able to prepare professional architecture and interior details.
AED131: Engineering Drawings & Design Communication	This course provides students with fundamental knowledge and skills of Engineering and technical drawings such as different types of projections, drawing pattern, dimensions, scales, annotation. The students learn how to use manual drafting techniques to produce orthographic drawings, auxiliary views and section drawings of geometric solid and voided forms starting from simple forms to complex forms to lead them producing architectural drawings in different view such as plans, elevations, sections and isometric, in addition to one and two vanishing point perspective. The students apply different types of architecture and design representation including color, black and white toning, shade and shadow.
AED231: Drafting & Design with Digital Media	This course introduces students to computers as a tool in the drafting and designing effort enabling students to create, edit, export and print drawings and sketches in specific scale and units using computers Software. Students are introduced to AutoCAD, SketchUp Pro or ArchiCAD as effective tools used for accurate and fast drawing. All commands of such software are demonstrated to the students that enables them to produce both two-dimensional drawings and rendered three-dimensional digit models correctly and efficiently through a professional training on such software in the computer labs. The students apply CAD applications to develop complete set of architectural drawings including plans, sections, elevations, and perspectives.
AED232: Rendering Techniques and Animation	The course introduces students to the world of 3D modelling. It is stepping forwards toward computer animated dynamic presentations – a tool that is widely used in the architecture practice. The course covers the development of rendered still images as animated field / frame – accurate recording. The basic software package handled through the course. However, all universal concepts will also be covered in this course, including human vision, camera angles, perspective correction, and finally, scene composition. Image recurring and rendering applications are also introduced.
AED331: BIM for Design & Construction Drawing	Course Description : Common Course to AE & IND The course introduces students to the principles of Building Information Modelling (BIM). Students have knowledge of functions of menus, options and tools of (BIM) application including user interface, straight and flexing parameters, system and non-system families, massing, components of building elements such as walls, windows, doors, floors, roofs, stairs, ramps and ceiling. It is a training-based course enable students to create design ideas, assess building models in terms of lighting, shadow, heating, and ventilation, and communicate the designs through producing rendered perspectives, animated senses, complete sets of working drawings, shop drawings, building details and construction documents such as BOQ and quotations. students practice building information modelling technology to visualize, stimulate, document and assess spatial design projects in which architecture engineering students focus on forms, spaces, building envelop, landscape and structure of building elements, while Interior design students focus on space, finishing materials, furniture and lighting and building elements' surfaces designs.
ARE141: Theory of Architecture	The course explores critical modern theories, strategies, concepts and notions of thinking, composing, forming and perceiving space. The course provides basic understanding of form,



	space & order and basic vocabulary of architecture design. Reference work are critically analysed (experiencing case studies & architectural & non architectural projects) in workgroups through hands-on activities, graphical drawings and architectural criticism, to show how an idea is translated into a form/space and vice versa.
ARE241: History of Architecture 1	The course includes a concise chronological survey of key periods of architectural history such as Egyptian, Greek, and Roman by investigating some particular architectural themes, ideas, forms, construction and structural technologies, culture, art and sculpture. The students will be able to study and analyze some significant 21 buildings to identify the evolution of the built environment and construction technology and their inter-dependencies that affected to architectural development across the periods.
ARE242: History of Regional Architecture & Heritage	This course studies the roots and genealogy of traditional architecture and explores the relationship between design, history, and theory through a broad range of lectures in which the analysis of buildings, cities, landscapes, and site visits supports the articulation and criticism of fundamental concepts. The course embraces the last century in the history of the Arabian Gulf cultural heritage when traditional methods of construction engaged the local society culture to adopt the local climate and respect the identity of the local place. In this course, students will expand their knowledge about the local and regional historical cities' development and gain a new vision about the importance of conservation from the past.
ARE243: History of Architecture II	The course includes architectural history starting from the Early Christian era, passing through Byzantine [history I], Romanesque, Gothic, Renaissance, and Baroque & Rococo architecture, 18th Century Architecture. It highlights the construction and structural methods, form, art and various factors affected to the evolution of the built environment, and architectural developments. Examples of ancient buildings in these periods are studied and analyzed to enhance the students' ability to understand the theoretical bases and architectural concepts
ARE341: Modern & Contemporary Architecture	The course explores modern and contemporary theories of architecture and their relation to the formation/elaboration/ development of the design process. Contemporary architects and their works (texts, projects and drawings) in relation to the build environment, major building designs, construction technologies and public spaces are studied/ critically analyzed (Ideas, form configuration, space,) in individual /workgroups through graphical drawings and architectural criticism.
ARE411: Housing Theories and Economics	The course explores issues, concepts, theories, and principals that animate the process development of the different types/categories of modern and contemporary housing exercise in relation to local/global economics, culture and social behaviour. Housing and Architecture are illustrated, analysed and studied as tools used by different actors (private/public sectors, developers, engineers, architects, lawmakers...) for the development of neighbourhoods, cities and culture (new urban fragments, small and local expat communities...). It also explores theories like Defensible Space; Privacy, Territoriality, and Crowding; Personal Space; and Phenomenological Ideas of Dwelling.
ARE442: Interior Design & Modern Art	This course exposes to interior layout design and finishing materials properties and specifications in terms of sources, locations, shapes, strength, workability, functionality, durability, sustainability, environmental compatibility, color, texture and construction technology of architectural interior spaces. The students will explore the influence of modern art movement and different interiro



	themes. The course emphasizes on the applications of interior finishes and materials in the context of their relations with aesthetic values and visual expressions, human wellbeing and comfort.
AED251: Design Research Methods	The course provides an overview of diverse research types, methods, and processes related to design. This course covers different types of research according to different classifications; the importance of literature reviews; survey strategies, such as questionnaires, interviews, observations, and experimental studies; and different models of research. In this course, students learn about information collection, quantitative and qualitative analysis, and result from interpretation and representation using a variety of tools and methodologies. Students are taught to make design decisions based on research results and evidence
ARE551: Graduation Project Research	This course introduces the process of formulating appropriate research methodology to pursue a strong academic rigor in the student. The student will explore deeper by researching into a topic interest independently generated from their previous advanced design research studio [socio cultural design research (Architecture Design V) OR sustainable design research (Architecture Design VI) OR urban context design research (Architecture Design VII)]. The findings will enhance and support the concept and application in the design with evidences based on sound research and improve the design brief that will be implemented in Architecture Graduation Design. The students will document the process as a final report using the skills gained throughout the course.
ARE361: Landscape Architecture	This course is intended to teach students the theories, concepts and basics of landscape architecture and design process of outdoor areas, such as Gardens, Parks, Public spaces, External furniture and Lighting by studying topographical features and various ways of incorporating such elements in to the design process or methods of shaping such sites addressing to the overall design. Moreover, the students will practice analysis, planning and designing with soft and hard landscape elements by considering environment and natural resources of the site. Further, relevant terms, vocabulary and necessary scientific terms will also be introduced to the students.
ARE461: Urban Design	The course introduces Urban Design as a distinctive intermediate discipline between Architectural Design and Urban Planning. The course starts with defining basic terminologies related to the built environment and the mutual relationship between man and Environment, and then explains history of Urbanization throughout the globe. The modern Urban Design theories are explained as well, with special focus on users' needs and human behaviour in built environment. Moreover, the urban design process (urban documentation, urban analysis, alternatives generation and evaluation, and urban detailing) is explained. A real urban design project is given to students in order to apply the taught course concepts.
ARE462: Planning & Sustainable Cities	The course develops the framework of knowledge in the fundamentals of city and regional planning and sustainable principles of city planning. The course introduces the students to origin and evolution of settlements and cities through history, elements of city plan, transportation planning, zoning and land use patterns, sustainable city features. Expose to analytical frameworks to understand key city planning systems, city module strategies and implementation of sustainable rating tools.
ARE561: Environmental Planning &	An overview of environmental planning is presented in this course, along with topics associated with environmental issues in Bahrain. Students will explore some of the potential challenges facing planners as well as some of the tools to address those challenges. The course will cover topics



Impact Assessment	such as environmental planning and policymaking, global and local environmental issues, criteria and methods of environmental impact assessments, urban ecology & ecosystems and their influence on the urban environment.
ARE371: Building Regulations & Codes	The course explains the concept of building regulations and statutory environment set by regulatory authorities concerned with built environment. Moreover, the course covers a wide range of national [Benayat system, Bahrain], regional and international buildings regulations & codes, building fire regulations and planning regulations. The Bahraini codes and regulations will be discussed through real-life case studies.
ARE470: Architectural Internship Training	In this course, the student is required to complete an internship programme by engaging in practical training for a period of 300 hours in an architectural firm or in businesses related to the construction industry. The course enables students to acquire professional practice in 28 architecture engineering discipline, awareness of the administrative structure and management system of engineering companies, participating in different project phases including initiation, planning, execution, completion and construction site visits. and to be involved in documentation process, meetings, while acknowledging professional ethics and work commitment as well.
ARE571: Specifications and Quantity Surveying	This course provides an introduction to the international specifications systems in construction industry and the procedures and techniques involved in preparing quantities of various construction items. Students learn specific aspects of estimating, including materials, quantity surveying (take-offs), labor costing, and final pricing. Detailed estimates for each major construction discipline will be taught, based upon construction project documents. The course contents include illustration to the elements of the construction project, estimates types and methods, methods of taking out quantities, calculation of earth work, rate analysis and the methods and types of the applied international specifications
ARE572: Professional Practice & Ethics	This course introduces students the essentials of office practices, the many definitions of client and their roles in the design process, the legal responsibilities of the profession, the importance of continuous professional development and the obligation the profession has to 29 provide to the civic society. Students will be exposed to different stakeholders involved in design process and their responsibilities, identify types of architectural practices, legal duties of the architect, plan of work, pre-contract procedures and contract procedures and professional code of conduct.
ARE573: Construction Project Management	The course introduces students to the role of Project Manager and Project Management team in the stages of construction projects starting by briefing stage, passing through designing stage, tendering stage, construction stage and ending with commissioning stage. Project scale, managerial cycle, life cycle, risk management and delivery methods will be explained. Time scheduling techniques including BERT and CPM will be practiced in the course. An introduction to cost planning and estimation and contract types will be presented. Construction site planning management and Health and Safety standards will be highlighted.
ARE581: Advance Rendering Techniques & Animation	The course introduces students to the world of 3D modeling and coding of different software, computational design, and digital architecture as well as animation. It is stepping forwards toward Computational Design, and computer-animated dynamic presentations – a tool that nowadays is widely used in the architecture practice. The course covers the development of digital architecture including kinetic, parametric design, and animation.



ARE582: Communication for Architects	This course emphasis on the role of effective communication between different actors of the design project and its impact on decision making. It explores the different strategies of communication/representations for architects to use during the different phases of their design process to illustrate their work during meeting with clients or other actors. Verbal and non-verbal language (drawings, sketches, diagrams, videos, animations) are used/ illustrated/ evaluated as a mean to empower, exchange, develop and process ideas.
ARE583: Architectural Photography & Cinematography	This course will teach students to create successful images of exterior architecture, interior architectural design, as well as architectural models. The student will become a highly competent creative digital photographic image creator with accurate exposure, proper color correction, and excellent printing output. They will successfully use specific digital tools for the architectural image. Further, explore on film documentation skills using film cameras with perspective/parallax control. Master's in creative image enhancement using current software.
ARE584: Building Economics & Real Estate	This course provides an economic perspective on markets and policy related to the real estate sector. The subject will discuss the theory of urban land and housing markets, the principle of time value for money, rate of return on real estate projects the spatial development of cities, Ethical principles in real estate operations. Analyzing and evaluating real estate projects. Real estate appraisal.
ARE585: Heritage & Building Conservation	The Course has the task of conservation for the heritages from the local, regional, and international levels, and will consist of study in depth of the conservation and reuse of the architectural heritage in Bahrain with various schools and experiences. Students will acquire knowledge of different consolidation and restructuring techniques, both borrowed from tradition and developed from new technologies and new materials that suit the opera of work. At the end of the course, the student will be able to conserve a building respecting its history, location, and cultural background.
ARE586: Advanced Computer Techniques	This course approaches the students to the world of the graphics and visual communication applications to present their work, ideas, concepts, and projects presentation in a very effective and professional way. The graphics and visual communication applications such as but not limited to adobe Package software “adobe Photoshop, adobe after effect, adobe illustration, adobe InDesign, adobe premiere, adobe animate, and adobe character animator” and so on.
ARE587: Architecture and Virtual Reality	This course will expose students to understanding architecture through technologies such as virtual reality, augmented reality, immersive audio, and mixed reality. The course will experiment with a range of immersive technologies and learn the fundamentals of immersion, narrative, character, and environment creation.
ARE585: Introduction to Remote Sensing	The course provides the basics of remote sensing, characteristics of remote sensors, and remote sensing applications in urban planning and environmental applications. Students will be able to understand the structure of remotely sensed data and how to retrieve the needed information and to decide which remote sensing techniques suite their specific needs. The course contents introduce the structure of satellite orbits, sensor ranges and characteristics, image acquisition and data collection, basics of image processing and interpretation. The course presents the integration of remote sensing and GIS to urban planning and environmental inquiries as well.

ARE589: GIS Application in Planning	Geographic Information Systems (GIS) technology is an integrated system and crosscutting technology that has become indispensable for representing, analyzing, modelling and understanding the built environment and in fact all manner of spatially distributed phenomena. This course provides the students with the understanding of significant of GIS for city and regional planners, urban designers, land developers and architects whether they work in governmental or in the private sectors. The students are introduced to menus, tools and toolboxes of ArcGIS Desktop, ArcMap, and ArcCatalog interfaces that enable students to create different kind of databases input, edit, analyze, query, and export interactive urban data to create current, proposal, and suitability maps for decision making of urban planning problems.
IT102: Introduction to Computer Applications	This is an introductory course focusing on fundamental concepts of computer hardware and software and familiarizes with a variety of computer applications, including word processing, spreadsheets, databases, and multimedia presentations. This course covers the internet based applications, working with email and browsing the websites. This course helps the students to learn basic computer Application.
ENGL103: English for Academic Purposes	This is an introductory course that prepares the students to communicate in correct English for academic and professional purposes. Students enhance their reading, writing, listening as well as speaking skills through classroom activities and compose ideas in varied specified formats. This course will help the students to develop contextual analysis, teamwork, word processing, documentation and professional communication.
ENGL104: English for Academic Purposes	This is a course that develops the interpretative skills related to listening, speaking, reading and writing tasks that constitute professional communication. This course covers a process based approach namely brainstorming, drafting, developing, revising as well as editing in writing and speaking tasks, plus skimming as well as scanning for the interpretation of the text in reading and listening tasks systematically. This course helps the students describe events, make comparisons and express their preferences and recommendations.
GS102: Creative Thinking	Course Description: University Subject ينقسم هذا المقرر الى ثلاثة اقسام: القسم الاول: مدخل للتفكير الابداعي, في هذا القسم يتعرف الطالب على الخلفية الفكرية والجوانب النظرية للتفكير الابداعي وهي: 1/ تحليل لمفهوم التفكير الابداعي 2/ دراسة لمكونات الابداع ومعيقاته القسم الثاني: مهارات التفكير الابداعي, وفي هذا القسم يتعرف الطالب على ملكات الابداع الفكرية, وذلك يهدف تدريجيا وتعلم توظيفها في مختلف جوانب الحياة وهي: مهارة الطلاقة, مهارة المرونة, مهارة الاصلية, مهارة الميل الى التفصيلات, مهارة الحساسية للمشكلات, مهارة الاستنتاج والمنطق, مهارة المقارنة والمباينة, مهارة التنبؤ, مهارة مواصلة الاتجاه, مهارة الخيال البصري, مهارة التركيب, ومهارة تجديد العناوين. القسم الثالث: ادوات التفكير الابداعي, وهي ادوات تم تصميمها لتسهيل عمليات التفكير الابداعي ومنها: اداة الملائمة الجبرية, اداة قائمة التصنيفات, اداة معالجة الافكار, اداة اعتبار جميع العوامل, اداة العمومية والشمولية, اداة التجزئة والتقسيم, اداة القوة الموازنة, اداة سلم التجريد, اداة العصف الذهني, اداة سكامبر, اداة المصفوفة المورفولوجية, اداة الحجر المتدرج, اداة معارضة المفهوم, اداة القبعات الست للتفكير
GS133: History of Bahrain	Course Description: University Subject THIS COURSE IS TAUGHT IN ARABIC يتناول المقرر موقع البحرين واهميته عبر العصور, كما يبرز الخصائص الجغرافية للبحرين, ويركز في تاريخ البحرين القديم والوسيط والحديث والمعاصر, فيبرز التطورات والتحولات السياسية والاقتصادية والاجتماعية والثقافية وصولا الى بيان اهمية الدولة المعاصرة وانجازاتها
GS111: Arabic Language Skills	Course Description: University Subject THIS COURSE IS TAUGHT IN ARABIC دراسة اساسيات اللغة العربية صياغة وتركيبا ومعجما ودلالة واملاء, ومعالجة اساليبها قراءة وتذوقا ونقدا, وبيان خصائصها الجمالية وقيمها الدلالية والتعبيرية من خلال نصوص تتناول الاجناس الادبية شعرا ونثرا



LAW106: Human Rights	Course Description: University Subject THIS COURSE IS TAUGHT IN ARABIC يتناول هذا المقرر المفاهيم الأساسية لحقوق الإنسان في القانون الدولي والمواثيق العالمية والمعاهدات والتوصيات المنبثقة عن المؤتمرات والتجمعات الدولية، كما يتناول دراسة الحقوق والحريات الأساسية بموجب الاتفاقيات الدولية والحماية المقررة للأفراد بموجب الدساتير والاعلان العالمي لحقوق الإنسان
ENGL202: English Writing for Communications	Course Description: University Subject This is a course in English as a foreign Language that builds upon the critical, analytical and research skills to prepare students for future academic study. This covers compiling reviews, reports, notes, summaries, presentations as well as cite references. This course develops the students' academic reading strategies, ability to differentiate literal and inferential meanings plus competent speaking skills to defend their observations.