



Applied College

Multimedia Design Diploma Program

Level 1

Course title	English Language (1)
Course code	ENG 101
Credit hours	3
Medium of instruction	English
Course specification	English Language (1) ENG 101 is taught at the first level of first year for 3 credit hours.

Course title	Computer Maintenance Skills
Course code	TECM 110
Credit hours	3
Medium of instruction	English
Course specification	This course covers topics related to computers including computers components, basics networking, operating systems, virtualization, troubleshooting, and operational procedures. Students will learn how to maintain computers: diagnostics, repair, update and amend the pieces, partitioning and preparing the disks. This course contains labs content that includes technical concepts and terminology of the PC's internal and external components and operating systems.

Course title	Basics of Wired Networks
Course code	TECM 120
Credit hours	3
Medium of instruction	English
Course specification	This course introduces networking concepts and technologies, Network architectures, cabling and topology, ethernet basics, network installation, TCP/IP applications and network protocols, advanced networking devices and wireless networking. At the end of this course students are prepared to take the CompTIA Network+ certification examination.



Course title	Database Management
Course code	PROG 110
Credit hours	3
Medium of instruction	English
Course specification	This course covers principles of database systems, architecture of database management systems, relational model conceptual design and requirement analysis, database design and normalization, query languages, multi-user and distributed database issues; practical use of a DBMS and building of a database application.

Course title	Computer Programming Concepts
Course code	PROG 120
Credit hours	3
Medium of instruction	English
Course specification	This course covers concepts of problem-solving using constructs of logic inherent in computer programming languages. It covers all the essential programming concepts including variables, data types, control statements, functions and arrays. In this course, students will apply problem solving concepts by analyzing problems and constructing, testing, and implementing algorithms using pseudo-code, and procedural programming.

Course title	Graphic Software Applications
Course code	MEDI 110
Credit hours	3
Medium of instruction	English
Course specification	This course introduces basic Computer graphics concepts and terminology. It focuses on manipulating vector graphics for final output through print production. It includes the basic tools and techniques-page layout, drawing basic shapes and working with lines and nodes. It covers selecting and manipulating objects, drawing and shaping objects platforms and output devices, color theory, color management, and postproduction techniques.



Level 2

Course title	English Language (2)
Course code	ENG 102
Credit hours	3
Medium of instruction	English
Course specification	English Language (2) ENG 102 is taught at the second level of first year for 3 credit hours.

Course title	Operating Systems 1
Course code	TECM 111
Credit hours	3
Medium of instruction	English
Course specification	This course gives an overview of Operating Systems concepts. Topics include Software and Hardware management. During this course students will learn how to install and configure an OS and how to work in command line using Linux OS.

Course title	Interactive Digital Media Skills
Course code	MEDI 111
Credit hours	3
Medium of instruction	English
Course specification	Interactive Digital Media Skills MEDI 111 is taught at the second level of first year for 3 credit hours. This course continuing in giving advanced Computer graphics concepts and principles. It focuses on manipulating vector graphics for final output through print production. It includes advanced tools and techniques- compound paths and shapes and working with filters, blends and masks. It covers objects distortion, making effects and exploring pressure sensitive tools and transparency.



Course title	2D Modeling and Animation
Course code	MEDI 113
Credit hours	3
Medium of instruction	English
Course specification	This Course is designed to instill an understanding of animation principles and produce quality 2D Digital animations implementing these principles and exploring various techniques. Students will learn the production process of animation including writing a treatment, storyboarding, timing through animatics and final rendered animations.

Course title	Digital Image Editing
Course code	MEDI 120
Credit hours	3
Medium of instruction	English
Course specification	This course introduces basic digital image editing concepts and terminology. It focuses on tools and techniques of photo correction and enhancement and editing. Gain experience in correcting, improving and repairing raster images. Identify and analyze fundamental concepts of the digital imaging domain. Utilize appropriate digital imaging techniques to compose, mix and edit image compositions.

Course title	Visual effects
Course code	MEDI 121
Credit hours	3
Medium of instruction	English
Course specification	This Course is designed to give a study of the techniques and practical application of visual effects to motion graphics sequences using specific software. Topics address simulation of natural environmental effects, realistic compositing of pyrotechnic footage, motion tracking and match-moving. The focus will be centered on industry standards and procedures for planning, creating and applying such effects.



Course title	Video and Infographic Advertisement Design
Course code	MEDI 122
Credit hours	3
Medium of instruction	English
Course specification	This course introduces the basics of video and infographic advertisement design. It gives the important tools used to achieve a video and design for advertisement : mainly Photoshop, Illustrator, Premiere Pro, etc.

Exit Point:

Course title	Internship
Course code	MEDI 192
Credit hours	6
Medium of instruction	English
Course specification	This course is taught after finishing the first year for students who want to graduate with Associate diploma.

Level 3

Course title	English Language in Computer Science
Course code	PROG 241
Credit hours	3
Medium of instruction	English
Course specification	English Language in Computer Science PROG 241 is taught at the third level of second year for 3 credit hours.



Course title	3D Modeling and Animation
Course code	MEDI 214
Credit hours	3
Medium of instruction	English
Course specification	This Course is designed to instill an understanding of animation principles and produce quality 3D Digital animations implementing these principles and exploring various techniques. Students will learn 3D object manipulation, modeling methodologies, lighting and rendering effects, camera manipulation, textures creation and use, dynamic animation, and characters creation and manipulation.

Course title	Computer Games
Course code	MEDI 215
Credit hours	3
Medium of instruction	English
Course specification	This Course is designed to instil well founded broad understanding of the basics of computer games principles and tools. By implementing these games principles and exploring various techniques, students will produce quality 2D video games. Students will learn the video games history and will move to the basics of game design and development processes.

Course title	Electronic publishing
Course code	MEDI 216
Credit hours	3
Medium of instruction	English
Course specification	This course introduces the electronic publishing concepts and principles. It focuses on designing a landing page for an ebook, developing interactive digital publications, including eBooks, eNewsletters, and eMagazines, and utilizing various digital media publishing formats, such as EPUB, iBOOKS, PDF, and XML. It includes advanced tools and techniques used for electronic publishing



Course title	Digital Video Production
Course code	MEDI 223
Credit hours	3
Medium of instruction	English
Course specification	This Course is designed to instill an understanding of fundamental digital video production. Students will learn how to perform video editing on a basic level. This includes editing segments of motion video production footage by cutting, trimming and overlaying them. It covers adding video effects, clips and sequences, exporting frames and managing projects.

Course title	Digital Audio Production
Course code	MEDI 224
Credit hours	3
Medium of instruction	English
Course specification	This Course is designed to instill an understanding of fundamentals of digital Audio production. Students will learn how to perform Audio editing on a basic level. This includes editing Audio formats, linking files, editing digital recording-trimming, synthesis, sampling and batch processing and finalize files.

Course title	Website Development and Management
Course code	PROG 231
Credit hours	3
Medium of instruction	English
Course specification	This course allows the student to master the tools needed to develop and manage websites and it introduces web page layout with HTML and CSS, JavaScript for event handling and MySQL to provide access to a custom database.



Level 4

Course title	Graduation Project
Course code	MEDI 283
Credit hours	3
Medium of instruction	English
Course specification	This course is the capstone for the Multimedia design program and it is designed for Computer Science students who have passed 54 hours. This course allows the student use their knowledge of multimedia design concepts to complete a comprehensive project including a detailed project analysis and plan, documentation, and final presentation.

Course title	Internship
Course code	MEDI 293
Credit hours	6
Medium of instruction	English
Course specification	This course is taught at the fourth level for 6 credit hours, and it is designed for students who have passed 54 hours.