

(A)

IT-O Level - Outline Syllabus

Topic		Duration (in Hrs.)		
		Theory	Practical	Total
M1-R4	IT Tools and Business Systems	60	60	120
M2-R4	Internet Technology and Web Design	60	60	120
M3-R4	Programming and Problem Solving through C Language	60	60	120
M4-R4	Elective: (One Module out of the following three modules to be chosen)			
	M4.1-R4 Application of .NET Technology	60	60	120
	M4.2-R4 Introduction to Multimedia	60	60	120
	M4.3-R4 Introduction to ICT Resources	60	60	120
PR	Practical (Based on M1, M2, M3 & M4 module syllabus)			
PJ	Project			

IT-A Level - Outline Syllabus

Topic		Duration (in Hrs.)		
		Theory	Practical	Total
A1-R4	IT Tools and Business Systems	60	60	120
A2-R4	Internet Technology and Web Design	60	60	120
A3-R4	Programming and Problem Solving through C Language	60	60	120
A4-R4	Computer System Architecture	60	60	120
A5-R4	Structured System Analysis & Design	60	60	120
A6-R4	Data Structure through C++	60	60	120
A7-R4	Introduction to DBMS	60	60	120
A8-R4	Basics of OS, Unix & Shell Programming	60	60	120
A9-R4	Data Communication and Network Technologies	60	60	120
A10.1-R4	Introduction to Object Oriented Programming through JAVA	60	60	120
OR				
A10.2-R4	Software Testing and Quality Management	60	60	120
PR-1	Practical -1(Based on A1, A2, A3, A4 module syllabus)			
PR-2	Practical -2 (based on A5,A6,A7,A8,A9,A10 modules syllabus)			
PJ	Project			

PRACTICAL EXAMINATION SCHEME

No of Practical Examination : Two
Duration of each Examination : Three hour duration including viva-voce
Max. marks in each Examination : 100=80 (Practical) + 20 (Viva)

All 'O', 'A' and 'B' Level Candidates under the revised syllabi (Revision 4) shall have to qualify the Practical Examination, in addition to qualifying the theory examinations as well as the Project Work.

Practical-1 : Examination will be based on the syllabi A1-R4, A2-R4, A3-R4 and A4-R4 modules

Practical-2 : Will be based on the syllabi A5-R4, A6-R4, A7-R4, A8-R4, A9-R4 and A10-R4 modules.

PROJECT

DOEACC curriculum has a project as an important component of 'A' Level course. The Project is carried out by the student under guidance and support of faculty and management of the respective institute.

B) ‘O’/ ‘A’ Level Course in Hardware (DOEACC and Manufacturers Association for Information Technology (MAIT) Approved):

SNo	Course Name	Eligibility	Duration	Course Fees
01.	CHM ‘O’ Level	10+2 (preferably Science)/ITI (Electrical / Electronics/ Instrumentation)	1 Year (400 hrs.)	Rs. 13200/- **
02.	CHM ‘A’ Level	CHM ‘O’ pass / Diploma in Electrical / Electronics/ Instrumentation/ 2nd Year B.Sc. with Physics / Electronics /IT	1 Year (470 hrs.)	Rs. 15500/- **

C) O/A Level Courses in Multimedia and Animation Technology:

S.No.	Course Name	Eligibility	Duration	Course Fees
01.	MAT-O Level	10+2 in any Discipline	1 Year (600 hrs.)	Rs. 24,000/-**
02.	MAT-A Level	Graduate in any discipline	1 Year (1200 hrs.)	To be announced

****Course fees are subject to change till the admission process of the candidate is completed. Government Tax and Levies as applicable is additional.**

11. Short-term Courses (STC):

A) Basic Courses

Sl. No	Course Name	Course Contents	NSQF Compliant (Y/N)	Eligibility	Duration (in hours)	Course Fees+ applicable taxes is additional
01.	Certificate Course in Office Automation	Basics of Computer, Windows, MS-Office Communicating using the Internet, Browsers, Communication & Collaboration, Making Small Presentation	Y	10+2 pass	80 hrs.	Rs. 3500/-
02.	CCC(Course on Computer Concepts)	Introduction to computer , Introduction to GUI Based Operating System , Elements of Word Processing , Spreadsheets, Introduction to Internet, WWW and web browsers, Communication and Collaboration , Application of presentations, Application of Digital Financial Services	Y	Atleast 10 th Pass	80 hrs.	Rs. 3500/-
03.	Certificate Course in Web Designing	Introduction to Internet & Web, HTML, DHTML, JAVA Script, Flash PhotoShop, CSS Project on Website Development	Y	Knowledge in Basic Computer Concept	80 hrs.	Rs.5000/-

Course fees are subject to change till the admission process of the candidate is completed.

B) Advanced Level Courses

Sl. No	Course Name	Course Contents	NSQF Compliant (Y/N)	Eligibility	Duration (in hours)	Course Fees+ applicable taxes is additional
01.	Certificate Course in PC Assembly & Maintenance	Computer & I/O devices, Monitors, Memory, Hard Disk & Mother Board I/O ports, Graphic Card, Installation of Printers, Modem, OS & Scanner, Networking fundamentals	Y	10 th Pass	80 hrs.	Rs.2640/-

02	Certificate Course in Assembly and Maintenance of Personal Computer	I/O devices, Monitors, Memory, Hard Disk, Mother Board, Buses, I/O Ports, graphic cards, Installation of OS /printer/ modem / scanner, BIOS set up, Recovery & Trouble shooting, Networking Fundamentals, Preventive maintenance & Anti-Virus, Power supply, Printer, UPS	Y	ITI/10 th /10+2 Pass	240 hrs	Rs 8640/-
03.	Diploma in Multimedia and Animation Technology	Introduction to Multimedia, Image Editing & Graphic Designing, Audio Editing, 2D Animation, Video Editing, Special Effects, 3D Animation, Introduction to webpage Development Project Work	Y	10+2 pass & above	200 hrs.	Rs. 10000/-
04.	Certificate Course in programming through C Language	Intro. to C, Data types & operators, Looping, Functions, Arrays & Pointer, Structures & Union, Header files, File handling	N	Basic knowledge of Computer & at least 10+2 pass	80 hrs.	Rs.4000/-
05	Certificate Course in Programming thru C/ C++	Programming Concepts, problem solving thru C language, OOP using C++	N	Basic knowledge of Computer & at least 10+2 pass	120 hrs.	Rs. 5000/-
06.	Certificate Course in Advanced Financial Accounting & GST using TALLY	Advance Financial Accounting, Tally ERP 9 with GST, TDS/TCS/Prof. Tax, Payroll, Inventory etc.	N	10+2 pass preferably with commerce background	80 hrs.	Rs.8500/-

C) Courses for Professionals

Sl. No	Course Name	Course Contents	NSQF Compliant (Y/N)	Eligibility	Duration (in hours)	Course Fees+ applicable taxes
01.	Certificate Course in Core JAVA	Introduction to OOPs classes & objects, Packages & Interfaces, Exception handling, Multithreading, Applets & AWT Controls & Swing, SQL & JDBC, JAVA I/O	N	Basic Knowledge of Computers	80 hrs.	Rs.4000/-
02.	Certificate Course in Advanced JAVA (J2EE)	Introduction to Core JAVA & J2EE, SQL & JDBC, Beans in Servlets, Introduction to Struts framework, JSP, Hibernate	N	Basic Knowledge of programming Language	80 hrs.	Rs. 4000/-
03.	Certificate Course in Oracle SQL and PL/SQL	Intro. of RDBMS & ORDBMS, Basic PL/SQL, Control Structures & Procedures & Functions, Cursors, Triggers, Exception handling	N	10+2 pass & Basic knowledge of DBMS	80 hrs.	Rs. 5000/-
04.	Certificate Course in Information Security & Cyber LAW	Info. Security, Security Services, Mechanisms & attack, Physical & System Security, the Internet & Web parity, N/w Security fund., IT Acts & Cyber LAW, Case Study	N	10 th pass with basic computer & networking knowledge	80 hrs.	Rs. 5000/-
05.	Electrical Installation & Safety Practices	Electricity: Introduction, definition of voltage, current, power, energy, units & symbols Fuse, switch & circuit breakers code of practices and selection Ohm's law & other relevant laws, heating effect of electricity resistance,	N	10 th pass or equivalent	164 hrs.	₹ Rs. 8000/- including Taxes) for General Candidates and Rs. 16000/- for

		inductance, capacitance DC series & parallel circuit Conductor, insulator, swg wire gauge, cable testing of line house wiring connection & diagram of distribution & fuse board Staircase lighting, fluorescent tube, electric bell, bed switch connection etc.transformer – principle, construction, material Storage device – battery Electric motor – DC & AC motor (introduction) Electric generator – DC & AC generator (introduction) Method of laying wire over short distances Overhead and underground line (ac) distribution solar electricity elevator Fuel, explosives, sources of fire automatic smoke detection, heat detector, fire extinguishment mechanism extinguishing agent, electrical accident, mechanism of electrical injury				Sponsored candidates
06.	Certificate Course on MATLAB	Introduction to MATLAB, Graph Plots Mathematical Toolbox ; Control Statements, Procedures and Functions, Statistical Toolbox & Numerical analysis, Optimization, Manipulating Text , GUI Interface, Introduction to Simulink , Import & Export Introduction to Digital Image Processing Toolbox,	N	ME/M.Tech h MCA/BCA / BSc/M Sc, Diploma & Engineering graduates (Pursuing also)	36 hrs.	Rs. 6000/-
07.	Elements of Machine Learning, Statistics, Optimization Techniques and Digital Image Processing using MATLAB	Introduction to Machine Learning, Classification algorithms such as Neural Network , K-Nearest Neighbor, Discriminant Analysis, Decision Trees, Support Vector Machines, Ensembles Building Classification Models, Performance Measurement of a Classifier, Improving Predictive Models Statistics , Optimization Techniques Image Processing Fundamentals , Image Digitization, Image Enhancement & Restoration Image Compression, Edge and Boundary Detection, Image Filter, Image Registration Dilation and Erosion, Feature Detection, Segmentation, Fourier Transform	N	ME/ M.Tech, BE/B. Tech. (Pursuing also) or MCA/ BCA/M.Sc/ B.Sc(on going)/ Research Scholars	36 hrs.	Rs. 6000/-
08.	Certificate Course in AutoCAD	Introduction to Coordinate Systems, 2D&3D Drawing & Editing, Layers, blocks, X-refs, rendering solid modeling	N	Engg. Diploma / Degree / ITI trained	80 hrs.	Rs. 5000/-
09.	Certified Course in Linux, Apache, MySQL & PHP (LAMP)	Introduction to Linux, PHP, Introduction to Ajax, Apache configuration, HTML, Java Script, Validations OOPs concept in PHP, Concept in MySQL Database, Database programming using PHP & MySQL, MVC Architecture	Y	Basic programm ing knowledge	80 hrs.	Rs. 5000/-
10.	Certificate Course in Application Development using Java and Oracle	Introduction to OOPs classes & objects, Packages & Interfaces, Exception handling, Multithreading, JAVA I/O , JSP, Servlet , JDBC, Oracle SQL, PL/SQL	N	Basic Knowledge of Programmi ng	120 hrs.	Rs. 6000/-
11.	Certificate	SQL, oracle architecture, instance,	N	Basic	80 hrs.	Rs. 8500/-

	Course in Oracle DBA	creating database, data dictionary & views, control files, log files, table space, storage, structure, managing data, table & index, user & privilege, etc		knowledge of DBMS		
12.	Certificate course in Network Administration	Computer Network, topology, protocol, Networking Hardware, Network configuration, addressing, routing and routed protocols, VLAN, ACL, troubleshoot, Server installation, etc	N	10+2 pass with computer background	80 hrs.	Rs. 4000/-
13.	Certificate Course in System Administration using Linux	commands, shell programming, managing files & services, user administration, file system administration, disk quota administration, network connectivity, KVM, remote administration, system resources, SELinux, etc	N	10+2 pass with knowledge of computer	80 hrs.	Rs.8000/-
14.	Certified ANDROID Application Developer	Intro. to Mobile Apps & Android, its Architecture, Components, Building UI with Activities, Notifications, Multithreading, Resources and Assets, Intent, Broadcast Receivers, Services, Location Based Services and Google Maps, Sensors, Wi-Fi, Camera, Bluetooth, Android Application Deployment, etc	Y	Graduate/ Under Graduate and Knowledge of JAVA, Internet Concepts, and Database	100 hrs.	Rs. 15000/-
15.	Diploma in Computer Application and Network Administration	Computer application, Computer Hardware, and Peripherals Networking	N	10+2 pass with basic computer knowledge	200 hrs.	Rs. 10000/-
16.	Certificate Course in 2D Animation using FLASH	Introduction to Multimedia, Introduction to Graphics, Image Format, Color Model, etc., Introduction to 2D, Adobe Photoshop, Flash, Project	Y	10+2 pass & above	80 hrs.	Rs. 10000/-

Sl. No	Course Name	Course Contents	NSQF Compliant (Y/N)	Eligibility	Duration (in hours)	Course Fees+ applicable taxes
17.	Introduction to 3D Creative Design	Introduction to 3D, Auto Cad, Max, Maya, Complete Project	N	10+2 pass & above	144 hrs.	Rs. 15000/-
18.	Introduction to Internet Of Things (IoT) using Python	What is IoT - In-depth explanation, Elements, Sensors Arduino ,Circuit Design, Programming, Interfacing Python Programming, Function, Loop, Module, Conditioning, Classes etc., Matplotlib, Numpy, PIP, Opencv modules and programming using them Softwaqres, Libraries,V python Library, GSM Module, WiFi modules, GPS Module and Projects.	N	Graduate (Pursuing or completed) with programmin g knowledge	80 hrs.	Rs 6000 /-
19.	Certificate Course in Python with Introduction to Linux	Python & Linux Introduction , Introduction to Python Syntax, Looping, Strings, & Conditional Constructs Usage of String operators, & Math Functions & other Functions Detailed Usage of LIST, TUPLE , DICTIONARY, Classes and objects in Python	N	At least 10+2 passed with Computer Programmin g knowledge	80 hrs	Rs 6500/-

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- Courses which are not presently NSQF-compliant are likely to be aligned in due course.