

1.3.2 Number of value-added courses for imparting transferable and life skills offered during last five years.
 1.3.2.1 How many new value-added courses are added within the last five years

Name of the value added courses (with 30 or more contact hours) offered	Course Code (if any)	Year of offering	No. of times offered during the same year	Duration of course	Number of students enrolled in the year	Number of Students completing the course in the year
Android	VACIT001	2016	1	35 Hours	32	30
Database & SQL	VACIT002	2015	1	33 Hours	35	33
Networking	VACIT003	2015	1	32 Hours	31	28



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Department of Information Technology

Value Added Course

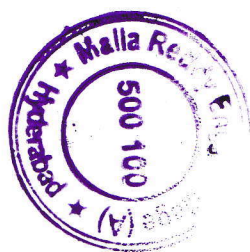
On

“ANDROID”

Dates: 01.07.2015-08.08.2015

Course Content

Date	Topic
01.07.2015 To 08.08.2015	Android Concept - Overview of Android
	Introduction To Mobile Apps
	Introduction Android
	Android Architecture
	Deep Overview in Android Stack
	Installing Android Machine
	Creating First Android Application
	Android Components
	Hello World App
	Building UI with Activities
	Advanced UI
	Notifications
	Multithreading
	Styles And Themes
	Resources and Assets
	Intent, Intent Filters and Broadcast Receivers
	Data Storage
	Content Providers
	Services
	Multimedia in Android
	Location Based Services and Google Maps
	Web Services and Web View
	Sensors
	Camera
	Live projects1- Live projects2- Live projects3
	Conducting Exam.



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V. Chaitanya
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DEPARTMENT OF INFORMATION TECHNOLOGY

Value Added Course

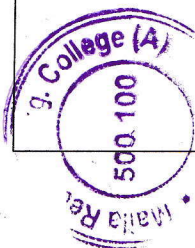
On

“DATABASE & SQL”

09.11.2015-16.12.2015

Course Contents

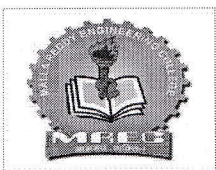
Date	Topic
09.11.2015 To 16.12.2015	Database Concept - Overview of DBMS
	Components, Architecture
	ER Model. RDBMS Concept - Relational Data Model
	Keys, Relational Algebra, Operators, Joins
	Convert ER model to relational model.
	Normalization - 1NF, 2NF, 3NF, BCNF, 4NF, 5NF.
	DDL, DML, DCL & TCL, Databases & Tables, Insert & Select
	Hierarchical Database Model
	Nosql, Relational Database
	Object In a Database
	Distributed Database (DDB)
	Operational Database or OLTP (On-Line Transaction Processing)
	Key elements of a database & Relational Keys.
	Select Queries, Joins & Data Modelling.
	Fact and Dimension Table Types, Star Schema & Snow Flake Schema.
	SQL Command
	SQL Function, Advanced SQL
	Database & SQL practical session programming
	SQL – Data Manipulation Language Commands and Operations
	Sorting and Filtering Data
	Advanced Filtering, Summarizing Data
	Grouping Data, Using Sub queries
	Joining Tables, Managing Tables
	Using Views, Stored Procedures
	Using Cursors, Using Transactions
	Demonstrate retrieving data
	Demonstrate inserting data.
	Demonstrate sorting and filtering data
	Demonstrate grouping data
	Demonstrate joining tables.
	Demonstrate using stored procedures, cursors, and transactions, and
	Demonstrate updating data
	Demonstrate deleting data
	Demonstrate summarizing data.
	Demonstrate using sub-queries.
	Demonstrate using views
	Importing and Exporting Data from and to Excel



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Maisammaguda (H), Medchal-Malkajgiri District, Telangana State – 500100

DEPARTMENT OF INFORMATION TECHNOLOGY

Value Added Course

on

“NETWORKING”

06.07.2015 to 14.08.2015

Course Content

Date	Topic
06.07.2015 To 14.08.2015	Introduction. Overview and motivation. The Telephone Network and the Internet.
	Reliable Delivery. Framing, ARQ, Stop-and-Wait, RTT estimation, sliding window, Go-Back-N retransmission.
	Socket Programming. UDP, TCP, Internet checksum. Connection establishment.
	Punctuality. Understanding the importance of time and time management
	Congestion Control. Further discussion on TCP and recent enhancements.
	Queuing and Scheduling, Routing . FIFO and fair queuing disciplines. Max-min fairness.
	Routing & Switching. Cell switching & ATM service classes.
	Routing & Switching. Switch architectures. Switching fabrics. Space-division multiplexing vs. shared-memory switches.
	Internetworking. Internet Protocol (IP) The best effort service model. IP header structure.
	Internetworking. Inter- and intra-domain routing. RIP, OSPF, BGP, CIDR.
	Link/MAC Layer. Introduction to media access control. ALOHA.
	Physical Layer. Shannon's law. Source and channel coding. BCH Codes.
	Network Security. Security and Cryptography.



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