

**SRI RAMAKRISHNA MISSION VIDYALAYA COLLEGE OF ARTS AND SCIENCE**

**(AUTONOMOUS) COIMBATORE – 641 020, TAMILNADU**

**Department of Computer Applications (BCA & MCA)**

**Action Taken Report (ATR) of Feedback on Curriculum (2020)**

The Department of Computer Applications participating in a well-organised descriptive feedback system accompanying all the stakeholders including faculty members, students, alumni and employers to help the individuals and department as a whole to enrich the curriculum. The percentage of refinement has been incorporated in the revised curriculum (BoS on 04.12.2020) is depicted as follows.

**BCA**


S.No.	Course Title	Course Code	% of revision
1	PC Software	20UCA1C02	New Course
2	IT Essentials	20UCA2C04	New Course
3	Object oriented Programming with C++ Lab	20UCA2CP2	20%
4	Java Programming	20UCA3C05	20%
5	RDBMS	20UCA4C09	60%
6	RDBMS LAB	20UCA4CP6	20%
7	Cloud Computing	20UCA6C15	New Course
8	Android Programming	20UCA6C14	40%
9	Python Programming	20UCA5C11	New Course

**MCA (AICTE has changed the duration of MCA programme from 3 years to 2 years)**

S.No	Course Title	Course Code	% of revision
1	Web Programming (PHP& MySQL)	20PCA2C05	New Course
2	Computer Networks	20PCA2C06	New Course
3	Open Source Application Development - Advanced Java-I	20PCA2C07	New Course
4	Practical- Web Programming (PHP& MySQL)	20PCA2CP4	New Course
5	Practical- Open Source Application Development - Advanced Java-I	20PCA2CP5	New Course
6	Windows Application Development - C#.NET	20PCA3C08	New Course
7	Data Science using R	20PCA3C09	New Course
8	Elective II- Anyone from Group-B(Open Source Application Development with Android/Content Management)	20PCA3EB2	New Course
9	Practical - Windows Application Development with C#.NET	20PCA3CP7	New Course
10	Practical - Data Science using R	20PCA3CP8	New Course
11	Practical -Elective II - Anyone from Group-B (Open Source Application Development with Android/Content Management)	20PCA3EPB1	New Course

Date: 04.12.2020

  
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Department of Computer Applications (Unaided Wing)

Layout of Syllabus Revision 2020 – 2021

S. No.	Course Title	Course Code	Semester	Unit	Existing Content	Modified/ Revised Content	% of changes in Syllabus	Course focus on
1	Object Oriented Programming with C++ Lab	20UCA2CP2	II	-	5. Construct class for primitive data structure Stack operation. 6. Construct class for primitive data structure Queue operation.	5. Write a C++ program to count inversion in an array. 6. Write a C++ program to find duplicate element in array	20 %	Employability
2	Java Programming	20UCA3C05	III	V	Applets: HTML – Applet Tag – Order of Applet Initialization – Sizing Graphics – Simple Graphics Methods – Drawing – Draw Arc and Fill Arc – Font Manipulation – Imaging – Simple Image Loader – Image Observer.(Page Number: 253 – 313)	Applets: Basics of applets - Applet Architecture - Life cycle of an Applet – AWT: <b>Event Handling Delegation event Model.</b> JDBC: JDBC Architecture - JDBC Drivers- Database connectivity in Java- <b>HTML basics</b> - JavaScript basics. Servlets: Servlet Architecture - Life cycle of a Servlet - The Servlet API	20 %	Employability

3	Relational Database Management System	20UCA4C09	III	III	SQL :- Background – Data Definition – Basic Structure of SQL Queries - Set Operations – Aggregate functions – Null Values – Nested Subqueries – Complex Queries - Views – Modification of the database - Transactions (Chapter 3, Page No.: 75-114)	Interactive SQL: Table fundamentals: Oracle Data types – DDL,DML Commands-create table – <b>viewing data in the tables</b> – Eliminating duplicate rows when using a select statement – Inserting data into a table from another table – Delete operations – Updating the contents of a table – Modifying the structure of tables – Renaming tables – Truncating tables – <b>Destroying tables</b> - Aggregate Functions, Join Relations. Data constraints – types of data constraints - <b>defining different constraints on a table</b>	60 %	Skill Development
				IV	Relational Database Design :- Features of Good Relational Designs – Atomic Domains and First Normal Form –Decomposition Using Functional Dependencies – Functional-Dependency Theory – Decomposition Using Functional Dependencies – Decomposition Using Multivalued Dependencies – Database-Design Process (Chapter7, Page No.: 263 - 302)	Introduction to PL/SQL Data base objects: Advantages of PL/SQL – The generic PL/SQL block – the PL/SQL execution environment - PL/SQL - The character set – Literals - PL/SQL data types – variables – constants – LOB types – logical comparisons - displaying user messages on the VDU Screen – comments – Control structures– What is a cursor? – Types of Cursor- Implicit and Explicit cursor		
				V	Object Oriented Databases :- Overview – Complex Data Types - Structured Types and Inheritance in SQL – Table Inheritance – Array and Multiset Types in SQL – Object-Identity and Reference Types in SQL – Implementing O-R Features – Persistent Programming	PL/SQL database objects: what are procedures/ functions? <b>Advantages of using procedure or function-</b> procedures versus function – deleting a stored procedures or functions – oracle packages – database triggers – <b>types of triggers.</b>		

					<p>Languages – Object-Oriented versus Object-Relation (Chapter 9, Page No.: 361 -388)</p> <p>Storage and File Structure:-  Overview of Physical Storage Media – Magnetic Disks – RAID – Tertiary Storage – Storage Access – File Organization – Organization of Records in Files – Data- Dictionary Storage (Chapter 9, Page No.: 441 - 474)</p>			
4	Relational Database Management System LAB	20UCA4CP06	III	III	<p>14. Create a function to return a fare from tickets booking table which contains bus_code, origin, fare, destinations, time of departure, data of travelling.</p> <p>15. Create a function to return a current stock value for a given product.</p>	<p>14. Write a PL/SQL program to perform Trigger</p> <p>15. Write a PL/SQL program to perform Cursor operation</p>	20%	Employability
5	Android Programming	20UCA6C14	VI	I	<p>Introduction – Enabling concepts for mobile and personal communication- Present, Past and Future Mobile Communication. Cellular concepts and implementation: Cellular concepts-multiple access technologies for cellular system- Cellular system operation and planning general principles. Chapter 1 (1- 11) ,Chapter 2</p>	<p>Introducing Android: Before we get started – Advantages of android – Preparing SDK tools to download – Android development IDE – Java, XML and how android works – Android application framework – <b>Screen layout design</b> – User Interface Design – Graphics and animation Design – Interactivity – Content providers – Intent and intent filters. (1-19)</p>	40 %	Skill Development

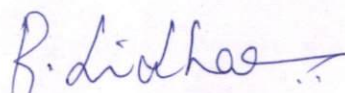
			VI	V	<p>Adding Interactivity:          Handling UI Events – An Overview of UI Events in Android – HandlineonClick Events – Android Touchscreen Events: onTouch – Android Right-click Equivalent: onLongClick – Key Event Listeners: onKeyUp and onKeyDown – Context Menus in Android: onCreateContextMenu.</p>	<p>The Foundations of Flutter Programming: Introducing Flutter – Understanding Widget Lifecycle Events – Installing the Flutter SDK. Creating a Hello World App: Setting Up the Project – Using Themes to Style Your App – Using External Packages. Using Common Widgets: Using Basic Widgets – Using Images and Icons – Using Decorators. Adding Animation to an APP: Using Animated Container – Using Animated CrossFade – Using Animations</p>	
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- R. Lidha

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**Action Taken Report 2018-2019**

Suggestions from the feedback	Action taken
PG Programme	
<p>The following courses may be removed</p> <ul style="list-style-type: none"> <li>▪ Windows Application Development – C#.NET</li> <li>▪ Windows Application Development – C#.NET-Practical</li> <li>▪ Operating System</li> <li>▪ Operating System - Practical</li> <li>▪ Elective: Data Warehousing and Mining</li> <li>▪ Elective: Data Warehousing and Mining - Practical</li> </ul>	Implemented
<p>The following new courses may be introduced</p> <ul style="list-style-type: none"> <li>▪ Network Programming using Python</li> <li>▪ Network Programming using Python – Practical</li> <li>▪ Data Science Using R</li> <li>▪ Data Science Using R – Practical</li> <li>▪ Elective: AngularJS and DevOps</li> <li>▪ Elective: AngularJS and DevOps – Practical</li> </ul> <p><b>UG Programme:</b></p> <ul style="list-style-type: none"> <li>▪ Web Technology (HTML5, Bootstrap, PHP &amp; MySQL)</li> <li>▪ Computer Networks</li> <li>▪ Computer Network Lab</li> <li>▪ Python Programming</li> <li>▪ Python Programming Lab</li> <li>▪ Elective : Advanced Networks</li> </ul>	Implemented
<p>The following courses may be revised and shifted from V semester to IV semester</p> <ul style="list-style-type: none"> <li>▪ Enterprise Web Application Development</li> <li>▪ Enterprise Web Application Development – Practical</li> </ul>	Implemented
<p>The following courses may be shifted from IV semester to III Semester</p> <ul style="list-style-type: none"> <li>▪ Developing web Application</li> <li>▪ Developing web Application - Practical</li> </ul>	Implemented
<p>The courses “Internet of Things” and “Internet of Things - practical” may be revised</p>	Implemented



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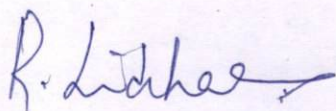
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**Action Taken Report 2017-2018**

<b>Suggestions from the feedback</b>	<b>Action taken</b>
The course “Object Oriented Programming with C++” may be revised for UG programme.	Implemented
The syllabi of NME courses 1.Information Security and 2. Data Science and Big Data Analytics Lab may be revised.	Implemented
The new course “Programming in C” may be introduced in the place of “Data Structure using C” for PGDCA programme.	Implemented
Outcome Based Education (OBE) may be introduced.	Implemented



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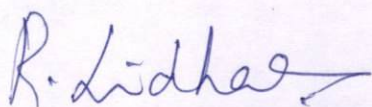


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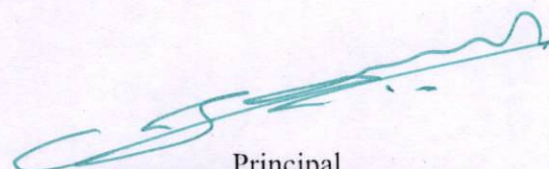
**Action Taken Report 2016-2017**

Suggestions from the feedback	Action taken
The course “Multimedia (Photoshop, Flash & CorelDraw)” may be revised as “Multimedia (GIMP,2D Pencil & Inkscape)”	Implemented
Faculty Exchange Programme may be arranged.	Arranged
Industry readiness programmes may be considered for PG programme <ul style="list-style-type: none"><li>▪ The course “Internet Of Things” may be introduced.</li><li>▪ The course “Developing Windows Applications Development C#.NET” may be revised and it is suggested to rename the course as “Developing Web Applications “</li><li>▪ The course “Open Source Application Development-PHP and MYSQL” may be revised and it is suggested to rename the course as “Enterprise Web Application Development “</li><li>▪ The course “Open Source Application Development -Advanced Java-I” may be revised</li><li>▪ The course “Open Source Application Development with Android / Content Management ” may be revised .</li></ul>	Implemented
Add-on courses for UG programme: <ul style="list-style-type: none"><li>▪ IT Essentials</li><li>▪ CCNA1 and CCNA2</li><li>▪ IoT (Module-I)</li><li>▪ IoT (Module-II)</li><li>▪ Data Science and Big Data Analytics</li></ul>	Implemented



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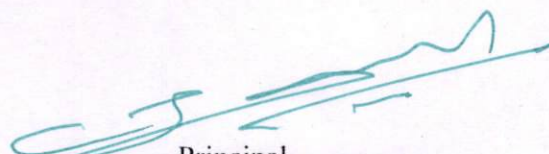
**Action Taken Report 2015-16**

Suggestions from the feedback	Action taken
<p>The following courses may be revised in,</p> <p>UG Programme</p> <ul style="list-style-type: none"> <li>▪ Data Structures using C++</li> <li>▪ Mobile Computing and Android Programming</li> <li>▪ Visual Programming</li> <li>▪ Web Technology Course</li> <li>▪ Cyber Security Course.</li> </ul> <p>PG Programme</p> <ul style="list-style-type: none"> <li>▪ Open source application development -Advanced Java-I</li> <li>▪ Open source application development -Advanced Java-II</li> <li>▪ Open source application development-PHP &amp; MySQL</li> <li>▪ Windows Application Development-C#.NET</li> </ul>	Implemented
<p>The following practical courses may be revised in,</p> <p>UG Programme</p> <ul style="list-style-type: none"> <li>▪ Data Structures using C++ Lab</li> <li>▪ RDBMS Lab</li> <li>▪ Computer Networking Lab</li> <li>▪ Android Programming Lab</li> <li>▪ Visual Programming-I Lab (C#.Net and ASP.Net Programs)</li> </ul>	Implemented
Duration for project work may be increased from six months to one year for UG students.	Implemented
Extra Lab hours may be provided.	Implemented as off-calendar instructional practice
Soft skill programme may be provided.	Implemented as Value added course
Internship training for UG & PG students is necessary.	Implemented
Curriculum to meet the current trends.	Spoken Tutorials, IIT Bombay certificate course was coordinated.
Collaborative programme with Industry.	<ul style="list-style-type: none"> <li>▪ CCNA of Cisco</li> <li>▪ Oracle Academy</li> <li>▪ Reddington Employability Academy for Development (READ) programme</li> </ul>



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