Curriculum

Post Graduate Diploma in Computer Applications (PGDCA) Programme 2011-2013
**PGDCA Syllabus Directorate of Distance Education, University of Kashmir**

**Structure of Curriculum**

**SEMESTER-I**

<table>
<thead>
<tr>
<th>S.NO.</th>
<th>Paper Code</th>
<th>Paper Title</th>
<th>Max. Internal Marks</th>
<th>Max. External Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>DCA-101</td>
<td>Computer Fundamentals and Applications</td>
<td>25</td>
<td>75</td>
</tr>
<tr>
<td>2</td>
<td>DCA-102</td>
<td>Computer Programming Fundamentals Using C</td>
<td>25</td>
<td>75</td>
</tr>
<tr>
<td>3</td>
<td>DCA-103</td>
<td>Data Base Management System &amp; Oracle</td>
<td>25</td>
<td>75</td>
</tr>
<tr>
<td>4</td>
<td>DCA-104</td>
<td>LAB-I for DCA-102</td>
<td>25</td>
<td>50</td>
</tr>
<tr>
<td>5</td>
<td>DCA-105</td>
<td>LAB-II for DCA-101/103</td>
<td>25</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td></td>
<td><strong>125</strong></td>
<td><strong>325</strong></td>
</tr>
</tbody>
</table>

**SEMESTER-II**

<table>
<thead>
<tr>
<th>S.NO.</th>
<th>Paper Code</th>
<th>Paper Title</th>
<th>Max. Internal Marks</th>
<th>Max. External Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>DCA-201</td>
<td>Web Programming</td>
<td>25</td>
<td>75</td>
</tr>
<tr>
<td>2</td>
<td>DCA-202</td>
<td>Data Communication and Networking</td>
<td>25</td>
<td>75</td>
</tr>
<tr>
<td>3</td>
<td>DCA-203</td>
<td>Project Work</td>
<td>50</td>
<td>200</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td></td>
<td><strong>100</strong></td>
<td><strong>350</strong></td>
</tr>
</tbody>
</table>
Paper Title: Computer Fundamentals and Applications

Unit-I

Unit-II

Unit-III

Unit-IV


Reference Books:
2. Peter Norton, Inside the PC, 2001, SAMS Tech Media
Paper Code:  DCA-102

Paper Title: Computer Programming Fundamentals Using C

Unit-I

Unit-II

Unit-III

Unit-IV

Text Book : Brian Kernighan and Dennis Ritchie, “C Programming Language,” PHI

Reference Books:
1. Brian Kernighan and Dennis Ritchie, “C Programming Language,” PHI
Paper Code: DCA-103

Paper Title : Database Management Systems and Oracle

Unit-I


Unit-II

Relational Data Model Concepts- Domains, Attributes, Tuples, Relations & their characteristics. Relational Data Model Constraints-Entity Integrity, Referential Integrity, Foreign Keys and other Relational Database design using ER to Relational Mapping.

Unit-III


Unit-IV


Reference Books :

3. Ivan Bayross, “SQL & PL/SQL using Oracle 8i & 9i SQLJ”, BPB.
PGDCA Syllabus Directorate of Distance Education, University of Kashmir

**Paper Code: DCA-201**

**Paper Title: Web Programming**

**Unit-I**

HTML – Concepts of Hypertext, Versions of HTML, Elements of HTML syntax, Head & Body Sections, Building HTML documents, Inserting texts, Images, Hyperlinks, Backgrounds and Color controls, Different HTML tags, Table layout and presentation, use of front size & Attributes List types and its tags, Use of Frames and Forms in web pages.

**Unit-II**

VB Script Concept: VB Script Language Elements : Constants, Variables and Data Types, Mathematical Operators, Logical Operators, Looping and Decision Structures.

VB Script Functions and Objects : Date Conversion Functions, Mathematical Functions, Data Formatting Functions, Text manipulation Functions, Date and Time Functions.

**Unit-III**

ASP Concepts: SSI Directives, Response Object, Request Object Cookies, Application, Session and Server Objects, Global, asa, ASPError Object, Object Context. Reading and Writing Files on Web Server.

**Unit-IV**

Integrating with Databases: OLEDB, ODBC, Remote Data Service, Active Data Objects, Connection Object, RecordSet and Fields Objects, Using SQL Statements to Query Data, Command and Parameter Objects, Using Error Collection, Developing ASP Application for a case Study.

Text Book : SCOTT MITCHELL & JAMES ATKINSON, “Teach Yourself ASP in 21 Days”, TECHMEDIA

**Reference Books:**

1. DEBORAH S. RAY, ERIC J. RAY,’ HTML 4 (Dummies 101 Series)”, IDG Books
3. SCOTT MITCHELL & JAMES ATKINSON, “Teach Yourself ASP in 21 Days,”
4. RUSSELL JONES, “Mastering Active server pages 3.0”, BPB
PGDCA Syllabus Directorate of Distance Education, University of Kashmir

**Paper Code: DCA-202**

**Paper Title: Data Communication & Computer Networks**

**Unit-I**


**Unit-II**


**Unit-III**


FCS Computation. Error Control and recovery techniques. Concept of ARQ standard and its versions.

**Unit-IV**


**Reference Books:**

3. Ulyesses Black, “Principles of Data Communications”, PHI.