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| Course Name : Database Application Development | Course Code : ITDB3101 |
| Pre Requisite : ITDB2101-System Analysis and Design | Credit Hours : 3 |
| Passing Grade : C | Level: Advanced Diploma |
| No. of Theory Hrs: 1 | No. of Practical Hrs : 4 |
| Goal: To prepare the students to have practical experience in developing advanced database applications. | |
| Objectives: Upon completion of this course, the students should be able to: <ol style="list-style-type: none"> 1. Get familiarize with the database application development process 2. Acquire skills needed to develop advanced database applications | |
| Outcomes | Methodologies |
| Upon completion of this course, the students should be able to: | |
| 1. Explain the basics of database application development process | Theory |
| 2. Use intrinsic controls, dialog boxes, menus to design event driven user interfaces | Practical |
| 3. Apply conditional statements, iteration statements, and data structures to add programming logic to the event procedures of controls | Practical |
| 4. Write codes to validate user inputs in a form | Practical |
| 5. Construct ADO.NET objects in a Windows Forms application | Practical |
| 6. Manipulate database through different data objects | Practical |
| 7. Design customized reports based on the requirements of the application | Practical |
| 8. Build and deploy the database application | Practical |
| Software & Hardware Tools: Microsoft Visual Studio 2012 | |
| Text Book: <ol style="list-style-type: none"> 1. Ian Griffiths, Matthew Adams, Jesse Liberty, Programming C# 4.0: Building Windows, Web, and RIA Applications for the .NET 4.0 Framework | |
| Reference Book: <ol style="list-style-type: none"> 1) Jesse Liberty, Dan Hurwitz, Programming .NET Windows Applications, O'Reilly | |