**SARDAR PATEL UNIVERSITY**
**Vallabh Vidyanagar, Gujarat**
**(Reaccredited with 'A' Grade by NAAC (CGPA 3.25)**
Syllabus with effect from the Academic Year 2021-2022

## MCA (Master of Computer Applications)
## MCA (Master of Computer Applications) Semester II

| Course Code | PS02CMCA56 | Title of the Course | PRACTICALS BASED ON PS02CMCA54 |
|---|---|---|---|
| Total Credits of the Course | 2 | Hours per Week | 4 |

| Course Objectives: | 1. To impart programming skills in Windows-based programming and web-based programming using C# .NET and ASP .NET. <br> 2. To teach the students database programming and report generation using the .NET technology. |
|---|---|

| Course Content | | |
|---|---|---|
| Unit | Description | Weightage* (%) |
| 1. | Practical training on developing Windows-based as well as web-based programs using C# .NET and ASP .NET. <br> Database programming using ADO .NET | 100% |

| Teaching-Learning Methodology | Blended learning approach incorporating traditional classroom teaching as well as online / ICT-based teaching practices |
|---|---|

| Evaluation Pattern | | |
|---|---|---|
| Sr. No. | Details of the Evaluation | Weightage |
| 1. | Internal Written / Practical Examination (As per CBCS R.6.8.3) | 15% |
| 2. | Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3) | 15% |
| 3. | University Examination | 70% |

| Course Outcomes: Having completed this course, the learner will be able to | |
|---|---|
| 1. | develop Windows-based software using C# .NET. |
| 2. | develop web-based applications using C# .NET and ASP .NET. |
| 3. | Access and manipulate database using ADO .NET |

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| Suggested References: | |
|---|---|
| Sr. No. | References |
| 1. | Andrew Troelsen, Philip Japikse, : C# 6.0 and the .NET 4.6 Framework, Apress, 2017. |
| 2. | Black Book: .NET 4.5 Programming (6-in-1) covers .NET 4.5 Framework, Visual Studio 2012, C# 2012, ASP.NET 4.5, VB 2012, and F# 3.0, Dreamtech Press, 2013. |
| 3. | Bill Evjen, Scott Hanselman, Devin Rader: Professional ASP.NET 4.5, Wiley India Pvt. Ltd., 2010. |
| 4. | Matthew MacDonald: Beginning ASP.NET 4.5 in C#, Apress, 2013. |
| 5. | Joseph Albabari, Ben Albabari: C# 4.0 in a Nutshell, O'Reilly. |
| 6. | G. Andrew Duthie, "ASP.NET programming with Microsoft Visual C#.NET Step by Step", version 2003, Prentice-Hall of India. |

| On-line resources to be used if available as reference material | |
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| 1. | Documentation of relevant software packages |

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