**Detailed Practical Plan**

**Class:** Final Year (IT)Semester II **Branch:** Information Technology

**Subject Name:** ASP.NET Laboratory (IT4522) Batch-I1 **Teacher:** Mr. S. S. Sawant

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| **Practical**  **No.** | **Experiment Title** | **Practical Method** | **Learning Outcomes** | **CO Mapping** | **Planned Date** | **Conducted Date** |
| 1 | **Develop responsive dynamic web application for “Banking System”. Use following ASP.NET concepts**   * Server Controls * Validation Controls * Navigation Control * State Management * ADO.NET * Bootstrap, JQuery, Ajax, Angular JS (Front end technologies | Programming | * Design responsive web application * Perform different types of operation on the database * Maintain state of the client | 1, 2 | 1, 2,8,9,15 Jan. |  |
| 2 | **Demonstrate the working of following ASP.NET MVC components.**   * Routing * [Naming conventions in ASP.NET MVC](https://techfunda.com/howto/19/naming-conventions-in-asp-net-mvc) * Create View, Controller and Model | Programming | * Understand MVC architecture and routing mechanism * Create different components in ASP.NET MVC5 | 3 | 16, 22 and 23 Jan |  |
| 3 | **Design responsive website for “ Tuition Registration”**   * Razor Syntax * HTML Helper Classes * Boostrap * JQuery | Programming | * Use razor syntax and HTML helper classes in the application * Apply the bootstrap and JQuery on ASP.NET MVC5 | 2,3 | 29, 30 Jan. and 5,12,13 Feb. |  |
| 4 | **Develop website for “Alumni Portal”**   * Passing Data * Validation * Layout * Error Handling * Redirect * Filters | Programming | * Implement dynamic functionality in the application * Provide consistent look and feel to the web application * Validate the user data | 2,3 | 26,27 Feb. and 5,6,12 March |  |
| 5 | **Develop “Online Complaint Management” application using ASP.NET MVC and Entity Framework**   * [Insert , Update, Delete record from database](https://techfunda.com/howto/278/insert-record-into-database) * [File upload](https://techfunda.com/howto/281/file-upload) * [Pagination of records](https://techfunda.com/howto/283/pagination-of-records) * [Sort & paginate records](https://techfunda.com/howto/284/sort-paginate-records) * [Search based on keyword](https://techfunda.com/howto/285/search-based-on-keyword) * [Listing records in Grid](https://techfunda.com/howto/286/listing-records-in-grid) * [ASP.NET MVC Ajax](https://techfunda.com/howto/asp-net-mvc/ajax) * [Insert and Search record using Ajax](https://techfunda.com/howto/290/insert-record-using-ajax)   [List records using JSON](https://techfunda.com/howto/292/list-records-using-json) | Programming | * Understand the benefits of Entity framework over ADO.NET * Perform different operations on to the database using Entity Framework | 2,3,4 | 13, 26, 27 March and 2,3,9 April |  |
| 6 | **Create Web API using ASP.NET**   * [Create ASP.NET Web API Controller](https://techfunda.com/howto/300/create-asp-net-web-api-controller) * [Insert record using Web API](https://techfunda.com/howto/301/insert-record-using-web-api) * [List records using Web API](https://techfunda.com/howto/302/list-records-using-web-api) * [Delete and Update record using Web API](https://techfunda.com/howto/303/delete-record-using-web-api) * [Consuming external Web API in ASP.NET MVC](https://techfunda.com/howto/305/consuming-external-web-api-in-asp-net-mvc) | Programming | * Create the WEB API for providing services. | 2,3,4, | 10, 16, 17 April |  |

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| **Prepared by:**  **(Mr. S. S. Sawant )** | **Approved by:**  **H.O.D(IT)** | **Approved by:**  **Dean of Academics** |

1. **Develop responsive dynamic web application for “Banking System”. Use following ASP.NET concepts**

* Server Controls
* Validation Controls
* Navigation Control
* State Management
* ADO.NET
* Bootstrap, JQuery, Ajax, Angular JS (Front end technologies)

1. **Demonstrate the working of following ASP.NET MVC components.**

* Routing
* [Naming conventions in ASP.NET MVC](https://techfunda.com/howto/19/naming-conventions-in-asp-net-mvc)
* Create View, Controller and Model

1. **Design responsive website for “ Tuition Registration”**

* Razor Syntax
* HTML Helper Classes
* Boostrap
* JQuery

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[**https://www.sulekha.com/home-private-tuitions/**](https://www.sulekha.com/home-private-tuitions/)

[**https://www.firsttutors.com/uk/**](https://www.firsttutors.com/uk/)

1. **Develop website for “Alumni Portal”**

* Passing Data
* Validation
* Layout
* Error Handling
* Redirect
* Filters

1. **Develop “Online Complaint Management” application using ASP.NET MVC and Entity Framework**

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* [Insert and Search record using Ajax](https://techfunda.com/howto/290/insert-record-using-ajax)
* [List records using JSON](https://techfunda.com/howto/292/list-records-using-json)

1. **Create Web API using ASP.NET**

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* [Delete and Update record using Web API](https://techfunda.com/howto/303/delete-record-using-web-api)
* [Consuming external Web API in ASP.NET MVC](https://techfunda.com/howto/305/consuming-external-web-api-in-asp-net-mvc)