

# **Seminar Topic Summary Report**

Institution Name: Basaveshwar Engineering College, Bagalkot

Department of Computer Applications ( M.C.A )

Course: MCA

Semester: II

Seminar Topic :Dashboard Using Excel

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## Table of Contents

1. Introduction
2. Seminar Topic Details
3. Topic Summary
4. Relevance to MCA Curriculum
5. Learning Objectives
6. Expected Outcome
7. References
8. Signatures:

## 1. Introduction:

Dashboards are powerful tools for data visualization, enabling users to analyze and monitor key performance indicators efficiently. When combined with a database, Excel can transform static data into dynamic, interactive reports that support better decision-making in business and technology. This topic bridges practical skills and theoretical understanding, making it highly relevant in today's data-driven environment.

## 2. Seminar Topic Details:

Title of the Topic: Dashboard Using Excel

Area/Domain: Data Analytics and Business Intelligence

Keywords: Matrices, Charts, Graphs, Pivot Tables, Reporting, Real-time Data.

## 3. Topic Summary:

A dashboard in Excel is a visual interface that displays key data and metrics using charts, tables.

It is used to monitor, analyze, and make decisions using consolidated, interactive data visuals.

Excel dashboards include features like PivotTables, PivotCharts, slicers, filters, conditional formatting, data validation, and dropdown menus.

Data can be sourced from local Excel sheets or external databases like SQL Server, MySQL, and MS Access, as well as online sources using Power Query.

## 4. Relevance to MCA Curriculum:

The topic "Dashboard Using Excel" is highly relevant to the MCA (Master of Computer Applications) curriculum as it connects theoretical knowledge with practical applications in the field of data analytics and business intelligence. It draws upon core subjects such as Database Management Systems (DBMS), where learn how to store, retrieve, and manipulate data—skills essential for integrating Excel with databases. It also aligns with Data Analytics and Data Mining, as dashboards are used to analyze trends, visualize data, and extract meaningful insights. Additionally, the topic supports the learning objectives of Software Engineering and Information System.

## 5. Learning Objectives:

Objective 1: To understand the concept and components of dashboards and their role in data visualization.

Objective 2: To learn how to create interactive dashboards using Microsoft Excel tools such as PivotTables, charts, and slicers.

Objective 3: To integrate Excel with external databases for real-time data fetching and reporting.

Objective 4: To analyze and interpret large datasets using Excel functions for better decision-making.

Objective 5: To develop practical skills in building customized dashboards for various business and academic use cases

## 6. Expected Outcome:

By working on the topic “Dashboard Using Excel” are expected to gain both theoretical and practical knowledge in the field of data visualization and business intelligence. They will learn how to design and create interactive dashboards using Microsoft Excel, integrate data from external databases, and present complex information in a simplified, visual format. These skills will enhance their ability to analyze large datasets, generate meaningful reports, and support data-driven decision-making processes. The experience will also improve their proficiency in widely used tools like Excel and database systems, which are essential in academic research, project work, and real-world professional environments.

## 7. References:

1. Microsoft Excel Official Support

□ <https://support.microsoft.com/excel>

2. Microsoft Learn – Create Excel Dashboards

□ <https://learn.microsoft.com/en-us/training/modules/create-excel-dashboards/>

## 8. Signatures:

Coordinator Signature

HOD Signature

