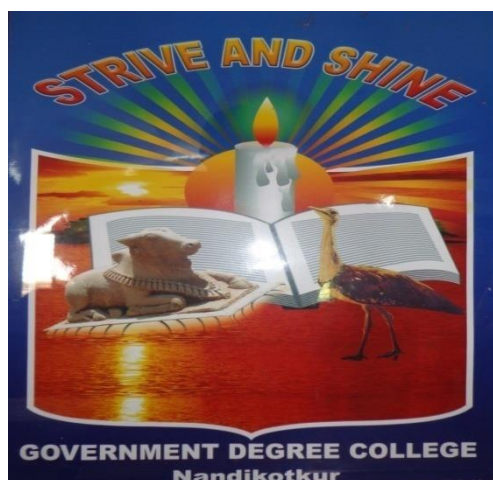


# **GOVERNMENT DEGREE COLLEGE**

**NANDIKOTKUR, Nandyal (Dist.,)**

## **DEPARTMENT OF COMPUTER APPLICATIONS**



- **PROGRAMME OUTCOMES (POs)**
- **PROGRAMME SPECIFIC OUTCOMES (PSOs)**
  - **COURSE OUTCOMES (COs)**

# Bachelor of Commerce (B. Com)

## Programme Outcomes (POs)

| <b>PO Number</b> | <b>Upon completion of B.Com Degree Programme the graduates will be able to</b>                                                                                       |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PO-1</b>      | <b>Domain Knowledge:</b><br>To Gain the knowledge of different concepts of commerce and accounting in starting and managing business organization.                   |
| <b>PO-2</b>      | <b>Problem Solving:</b><br>To solve problems related to employer, employee, investors and consumers with legal protection.                                           |
| <b>PO-3</b>      | <b>Application:</b><br>To prepare financial statements of business using accounting principles, concepts, conventions and provisions.                                |
| <b>PO-4</b>      | <b>Professionalism:</b><br>To develop necessary professional knowledge and skills in finance and taxation.                                                           |
| <b>PO-5</b>      | <b>Specialization:</b><br>To implement traditional and modern strategies and practices of costing, banking, economics, marketing, management, auditing and taxation. |
| <b>PO-6</b>      | <b>Communication Skills:</b><br>To practice different techniques of communication and apply it in business and profession.                                           |
| <b>PO-7</b>      | <b>Analytical Skills:</b><br>To use mathematical and statistical tools in academics, business and research.                                                          |
| <b>PO-8</b>      | <b>Employability:</b><br>To develop competency in students to make them employable in the global market.                                                             |
| <b>PO-9</b>      | <b>Entrepreneurship:</b><br>To develop the skills of students to equip themselves as successful entrepreneurs.                                                       |
| <b>PO-10</b>     | <b>Digital and technological skills:</b><br>To develop technical skills relevant to the field of business.                                                           |

## Programme Specific Outcomes (PSOs)

| <b>PSO Number</b> | <b>Upon completion of B.Com Degree Programme the graduates will be able to</b>                                                                                                   | <b>PO Addressed</b>  |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>PSO 1</b>      | Proficient use of business software such as spreadsheets, databases, and programming languages.                                                                                  | <b>PO 1 &amp; 2</b>  |
| <b>PSO 2</b>      | Capability to analyze business needs and create information systems that are organized, secure, and aligned with organizational goals.                                           | <b>PO 3 &amp; 4</b>  |
| <b>PSO 3</b>      | Skillful application of computer tools for analyzing business processes, extracting insights from data, and supporting informed decision-making.                                 | <b>PO 2 &amp; 3</b>  |
| <b>PSO 4</b>      | Be able to analyze various real-life computing problems, and design and develop effective solutions to these problems by applying knowledge and skills gained.                   | <b>PO 4 &amp; 9</b>  |
| <b>PSO 5</b>      | Be proficient in successfully blending analytical, logical and technical skills with latest tools and technologies to innovate solutions to existing social and business issues. | <b>PO 3 &amp; 10</b> |
| <b>PSO 6</b>      | Be able to adapt to new technologies keeping pace with industry trends and practices.                                                                                            | <b>PO 4 &amp; 5</b>  |
| <b>PSO 7</b>      | Be able to pursue higher studies such as MCA, MSc. etc. and undertake research.                                                                                                  | <b>PO 8 &amp; 9</b>  |
| <b>PSO 8</b>      | Be able to take up professional careers in the IT & ITES sector and become techpreneurs.                                                                                         | <b>PO 8 &amp; 9</b>  |

## PO – PSO MAPPING

| PSO/PO | PO<br>1 | PO<br>2 | PO<br>3 | PO<br>4 | PO<br>5 | PO<br>6 | PO<br>7 | PO8 | PO9 | PO10 |
|--------|---------|---------|---------|---------|---------|---------|---------|-----|-----|------|
| PSO 1  | *       | *       |         |         |         |         |         |     |     |      |
| PSO2   |         |         | *       | *       |         |         |         |     |     |      |
| PSO3   |         | *       | *       |         |         |         |         |     |     |      |
| PSO4   |         |         |         | *       |         |         |         |     | *   |      |
| PSO5   |         |         | *       |         |         |         |         |     |     | *    |
| PSO6   |         |         |         | *       | *       |         |         |     |     |      |
| PSO7   |         |         |         |         |         |         |         | *   | *   |      |
| PSO8   |         |         |         |         |         |         |         | *   | *   |      |

| <b>Cours Outcomes (Cos)</b>                        |                                                                                           |                      |
|----------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------|
| <b>SEMESTER - I</b>                                |                                                                                           |                      |
| <b>Course Code: 20C1303</b>                        |                                                                                           |                      |
| <b>Course Name: Information Technology</b>         |                                                                                           |                      |
| <b>CO Number</b>                                   | <b>On successful completion of this course, the student will be able to:</b>              | <b>PSO Addressed</b> |
| <b>CO- 1</b>                                       | Understand the fundamentals of Computer and its components, Memory devices                | <b>PSO 1, PSO 2</b>  |
| <b>CO- 2</b>                                       | Understand the types of Software, Compiler, Interpreter, Network and Internet basics      | <b>PSO 3, PSO 6</b>  |
| <b>CO- 3</b>                                       | Understand the concepts of MS- WORD, create, edit, and Format the documents, Mail Merge   | <b>PSO 4, PSO 5</b>  |
| <b>CO- 4</b>                                       | Apply formulas and functions, Spreadsheets, and Data Visualizations in EXCEL              | <b>PSO 1, PSO 3</b>  |
| <b>CO- 5</b>                                       | Create and manipulate Slide Presentation, Slide Transition Effects, and Custom Animation. | <b>PSO 1, PSO 3</b>  |
| <b>SEMESTER - II</b>                               |                                                                                           |                      |
| <b>Course Code: 20C2303</b>                        |                                                                                           |                      |
| <b>Course Name: E - Commerce and Web Designing</b> |                                                                                           |                      |
| <b>CO- 1</b>                                       | Understand the concepts of E-commerce, Framework, Applications and its Models.            | <b>PSO 4, PSO 5</b>  |
| <b>CO- 2</b>                                       | Understand the various Electronic Payment System, Risks ,EDI,Value Added Networks         | <b>PSO 3, PSO 6</b>  |
| <b>CO- 3</b>                                       | Design a Web Page using Text Formatting Tags, Images, Tables, Lists and Hyperlinks.       | <b>PSO 1, PSO 6</b>  |
| <b>CO- 4</b>                                       | Apply the concepts of Cascading Style Sheets,CSS Selectors ,Types of Style Sheets.        | <b>PSO 2, PSO 3</b>  |
| <b>CO- 5</b>                                       | Create a Dynamic Webpage with validation using Java Script objects,Events.                | <b>PSO 6, PSO 8</b>  |
| <b>SEMESTER - III</b>                              |                                                                                           |                      |
| <b>Course Code: 20C3303</b>                        |                                                                                           |                      |
| <b>Course Name: Programming with C &amp; C++</b>   |                                                                                           |                      |
| <b>CO- 1</b>                                       | Design programs involving control structures, loops                                       | <b>PSO 2, PSO 6</b>  |
| <b>CO- 2</b>                                       | Understand the usage of arrays, strings and functions                                     | <b>PSO 2, PSO 3</b>  |
| <b>CO- 3</b>                                       | Understand the Object Oriented Programming concepts using the C++ language                | <b>PSO 5, PSO 6</b>  |
| <b>CO- 4</b>                                       | Understand the concept of Constructor, Inheritance and its types                          | <b>PSO 4, PSO 5</b>  |
| <b>CO- 5</b>                                       | Construct the C++ Programs using Operators overloading and Exception handling             | <b>PSO 7, PSO 8</b>  |

|                                                             |                                                                                                  |                     |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------|
| <b>SEMESTER - IV</b>                                        |                                                                                                  |                     |
| <b>Course Code: 20C4201H</b>                                |                                                                                                  |                     |
| <b>Course Name: Objected Oriented Programming with JAVA</b> |                                                                                                  |                     |
| <b>CO- 1</b>                                                | Understand the basic concepts of Object Oriented Programming.                                    | <b>PSO 2, PSO 3</b> |
| <b>CO- 2</b>                                                | Write Java programs involving control statements, arrays, String and String Methods.             | <b>PSO 2, PSO 6</b> |
| <b>CO- 3</b>                                                | Develop reusable programs using the concepts of class, object, inheritance, polymorphism         | <b>PSO 5, PSO 6</b> |
| <b>CO- 4</b>                                                | Understands the concept of Packages, Creating a File , Read/Write the Files                      | <b>PSO 7, PSO 8</b> |
| <b>CO- 5</b>                                                | Apply the concepts of Multithreading and Exception handling to develop efficient codes.          | <b>PSO 2, PSO 7</b> |
| <b>Course Code: 20C4303</b>                                 |                                                                                                  |                     |
| <b>Course Name: Database Management System</b>              |                                                                                                  |                     |
| <b>CO- 1</b>                                                | Understand Database management systems, databases and its applications.                          | <b>PSO 3, PSO 4</b> |
| <b>CO- 2</b>                                                | Understand the drawbacks of Traditional File Systems                                             | <b>PSO 4, PSO 6</b> |
| <b>CO- 3</b>                                                | Model an application's data requirements using conceptual modeling tools like ER diagrams        | <b>PSO 3, PSO 4</b> |
| <b>CO- 4</b>                                                | Write SQL commands to create tables, insert/update/delete data and query data in relational DBMS | <b>PSO 6, PSO 7</b> |
| <b>CO- 5</b>                                                | Understand the PL/SQL structure ,cursors, exceptional handling and Triggers                      | <b>PSO 7, PSO 8</b> |
| <b>SEMESTER - VI</b>                                        |                                                                                                  |                     |
| <b>Course Code: 20C53036A</b>                               |                                                                                                  |                     |
| <b>Course Name: Big data Analytics using R</b>              |                                                                                                  |                     |
| <b>CO- 1</b>                                                | Understand data and classification of digital data.                                              | <b>PSO 3, PSO 4</b> |
| <b>CO- 2</b>                                                | Understand Big Data Analytics.                                                                   | <b>PSO 5, PSO 6</b> |
| <b>CO- 3</b>                                                | Load data in to R.                                                                               | <b>PSO 7, PSO 8</b> |
| <b>CO- 4</b>                                                | Organize data in the form of R objects and manipulate them as needed                             | <b>PSO 5, PSO 6</b> |
| <b>CO- 5</b>                                                | Perform analytics using R programming                                                            | <b>PSO 5, PSO 6</b> |
| <b>Course Code: 20C53037A</b>                               |                                                                                                  |                     |
| <b>Course Name: Data Science Using Python</b>               |                                                                                                  |                     |
| <b>CO- 1</b>                                                | Understand basic concepts of data science                                                        | <b>PSO 3, PSO 4</b> |
| <b>CO- 2</b>                                                | Understand why python is a useful scripting language for developers                              | <b>PSO 2, PSO 3</b> |
| <b>CO- 3</b>                                                | Use standard programming constructs like selection and repetition                                | <b>PSO 5, PSO 6</b> |
| <b>CO- 4</b>                                                | Use aggregated data (list, tuple, and dictionary).                                               | <b>PSO 7, PSO 8</b> |
| <b>CO- 5</b>                                                | Implement functions and modules                                                                  | <b>PSO 4, PSO 5</b> |