Department of Computer Applications
Academic Year – 2024-25

Course Titles

Year	Sem	Course	Title of the Course	No. of Hrs /Week	No. of Credits
I	II	1	Office Automation Tools	3	3
			Office Automation Tools Practical Course	2	1
II	III	7	E Commerce & Web designing	3	3
			E Commerce & Web designing Practical Course	2	1
	IV	11	DBMS with Oracle	3	3
			DBMS with Oracle Practical Course	2	1
III	V	6A	Bigdata Analytics using R Programming	3	3
			Bigdata Analytics using R Programming Lab	2	1
		7A	Data Science using Python	3	3
			Data Science using Python Lab	2	1

Skill Enhancement Course (SEC)

Year	Sem	Course	Title of the Course	No. of Hrs /Week	No. of Credits
I	II	1	**Digital Literacy**	**2**	1
II	III	2	**Information and Communication Technology**	**2**	1

Course Code 2-02G-OAT04-R24	TITLE OF THE COURSE Course – 1: OFFICE AUTOMATION TOOLS	Semester-II
Time: 3 hrs	MODEL QUESTION PAPER	Max Marks: 75

SECTION – A

Answer All of the following Questions   **10x1 =10 Marks**

1. Explain Save As option in word?
2. Explain about the font size in the Word?
3. What is spread sheet?
4. Describe the Filter option in Excel?
5. What is Slide show?
6. What is a cell in Excel?
7. What are the shortcut keys for copy and paste.
8. How to filter data in MS-Excel?
9. what is cell referencing?
10. How do you duplicate a slide?

SECTION – B

Answer any Five of the following Questions   **5X5 =25 Marks**

11. What is the use of Drop Cap?
12. Describe about Header & Footer?
13. What are the main features of tables in MS word?
14. Define the Macro with proper example?
15. Describe the usage of Worksheet in excel?
16. Explain any two functions in excel?
17. What is the main function of Sort and Filter in excel?
18. Explain the various aspects of Presentation in PowerPoint?
19. How do you add sound in the PowerPoint presentation?
20. Create a bar chart in MS-Excel.

SECTION-C

Answer any Four of the following Questions   **4X10= 40 Marks**

21. What are the main features of Ms- word?
22. Explain in detail about Windows Components?
23. Describe the steps involved in Mail merge?
24. Explain in detail about Adding, deleting, renaming and some functions in Excel?
25. What are the types of charts?
26. Describe the main components of Slide show and presentation in power point?
27. Explain the significance of sorting and filtering data in Excel.
28. Explain various operations on tables in MS Word, including creating a table, inserting, deleting, merging rows.

Semester -3
E-Commerce and Web Designing
Time : 3hrs   **Max Marks : 75**

SECTION-A
I. Answer any Five of the following. Each Question carries 3 Marks 5×3= 15 M
1. Define E-commerce?
2. Write about E-Commerce actors and stakeholders.
3. What is B2B?
4. Write about Customer Relationship Management.
5. What is E-payment?
6. Write about cyber money?
7. What are the differences between HTML and HTML5?
8. Write about code related elements in HTML with examples
9. Write about CSS?
10. Write about Div and Span elements in CSS.

SECTION-B

II. Answer any Five of the following. Each Question carries 12 Marks 5X12=60 M
11. Discuss about the E-Commerce 5-C model.
12. What are the advantages and disadvantages of E-commerce?
13. What are the key components of B2C software systems.
14. Write about the impact of supply chain management on B2B business operations.
15.What is Information Security Management (Ism)? Explain in detail.
16. What are the e payments gateways available?
17. Write about the process involved in creating a website.
18. Explain any 6 tags of html with example?
19. Explain the difference between inline, internal and external CSS?
20. What are RGB, HSL, HSLA values for color? Explain their usage.

15. Write the types of e-commerce?
17. Explain the List tags in html?
18. Write the types of CSS?
19. What are the color properties of CSS?

Semester -4
DATABASE MANAGEMENT SYSTEM WITH ORACLE

Time : 3hrs   **Max Marks : 75**

SECTION-A
Answer any Five questions (5X3=15M)

1. Define Database?
2. What is Information?
3. DDL Commands?
4. What is Entity?
5. PL/SQL datatypes?
6. Differentiate the data and information?
7. List any three objectives of DBMS?
8. What are the datatypes in SQL?
9. Write the structure of a PL/SQL program?
10. Define Database Trigger?

SECTION-B
Answer any Five questions (5X12=60M)

11. Explain about Components of DBMS?
12. Describe data models in detail.
13. Write about Key constraints and integrity constraints with example.
14. What is normalization? Explain 1NF, 2NF and 3NF.
15. Explain about ER Model with suitable example?
16. Explain Data Manipulation Language commands with examples?
17. Write a detailed note on various types of joins in SQL?
18. What is Transaction Control Language? Write about commit and rollback.
19. Describe the Structure of PL/ SQL?
20. What is a trigger? Explain in detail, triggers in PL/SQL.

1-5-106-6A-R20

THREE YEAR B.A./B.Com./B.Sc.(COMPUTER APPLICATIONS)
DEGREE EXAMINATION, JANUARY - 2024
CHOICE BASED CREDIT SYSTEM
FIFTH SEMESTER
PART - II : COMPUTER APPLICATIONS
PAPER - 6A : BIG DATA ANALYTICS USING R

(Under CBCS New Regulation w.e.f. the academic year 2022-23)

Time : 3 Hours

Max. Marks : 75

SECTION - A

Answer any **Five** of the following questions. Each question carries **equal** marks. (5×3=15)

1. What is unstructured data.

   నిర్మాణాత్మక డేటా అంటే ఏమిటి?

2. What is semi structures data?

   సెమీ స్ట్రక్చర్స్ డేటా అంటే ఏమిటి?

3. What big data analytics ?

   పెద్ద డేటా అనలిటిక్స్ అంటే ఏమిటి?

4. Explain the technologies needed for big data.

   పెద్ద డేటా కోసం అవసరమైన సాంకేతికతలను వివరించండి.

5. What is R?

   ఆర్ అంటే ఏమిటి?

6. What is array ?

   అర్రే అంటే ఏమిటి?

7. What is ordering data frames ?

   డేటా ఫ్రేమ్లను ఆర్డర్ చేయడం అంటే ఏమిటి?

8. What is data frame?

   డేటా ఫ్రేమ్ అంటే ఏమిటి?

9. Write about Scatter plots with example.
   ఉదాహరణతో స్కాటర్ ప్లాట్స్ గురించి వ్రాయండి.

10. Discuss in detail about Web Data.
    వెబ్ డేటా గురించి వివరంగా చర్చించండి.

SECTION - B
విభాగము – బి

Answer any Five of the following questions. Each question carries **equal** marks. (5×12=60)

11. What is big data and how is it used in measurement and evaluation?
    పెద్ద డేటా అంటే ఏమిటి మరియు అది కొలత మరియు మూల్యాంకనంలో ఎలా ఉపయోగపడుతుంది?

12. What is the difference between business intelligence and big data?
    వ్యాపార మేధస్సు మరియు పెద్ద డేటా మధ్య తేడా ఏమిటి?

13. Discuss in detail about classification of data analyst?
    డేటా అనలిస్ట్ వర్గీకరణ గురించి వివరంగా వివరించండి.

14. What are the limitations to using big data?
    పెద్ద డేటాను ఉపయోగించడానికి పరిమితులు ఏమిటి?

15. Explain the different data types are Boolean in R?
    R లో బూలియన్ వివిధ డేటా రకాలను వివరించండి.

16. Explain the different types of control structures in R?
    R లోని వివిధ రకాల నియంత్రణ నిర్మాణాలను వివరించండి.

17. Explain in detail about the function used to data frame?
    డేటా ఫ్రేమ్‌కి ఉపయోగించే ఫంక్షన్ గురించి వివరంగా వివరించండి.

18. Explain the commands to read a file in table format in R?
    R లో టేబుల్ ఫార్మాట్‌లో ఫైల్‌ను చదవడానికి ఆదేశాలను వివరించండి.

19. Explain the different types of line graphs with example.
    వివిధ రకాల లైన్ గ్రాఫ్‌లను ఉదాహరణలతో వివరించండి.

20. What are the types of files in Excel?
    ఎక్సెల్‌లోని ఫైల్‌ల రకాలు ఏమిటి?

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CHOICE BASED CREDIT SYSTEM
FIFTH SEMESTER
PART - II - COMPUTER APPLICATIONS
PAPER - 7A : DATA SCIENCE USING PYTHON

(Under CBCS New Regulation w.e.f. the academic year 2022-23)

Time : 3 Hours   Max. Marks : 75

SECTION - A
విభాగము – ఎ

Answer any Five of the following questions. Each question carries equal marks.

(5×3=15)

1. Write short notes on Data Science and its importance.
   డేటా సైన్స్ మరియు దాని ప్రాముఖ్యత గురించి క్లుప్తంగా రాయండి.

2. Why to use Python for Data Science?
   డేటా సైన్స్ కోసం పైథాన్ను ఎందుకు ఉపయోగించాలి?

3. How to write and execute a Python program?
   పైథాన్ ప్రోగ్రామ్ను ఎలా వ్రాయాలి మరియు ఎలా execute చేయాలి?

4. What is a Variable? State the rules for Python Variables.
   Variable అంటే ఏమిటి? పైథాన్ Variables యొక్క నియమాలను పేర్కొనండి.

5. How to access elements in Lists?
   Lists నుండి మూలకాలను ఎలా యాక్సెస్ చేయాలి?

6. Define Tuple and write about accessing the Tuple.
   టుపుల్ని నిర్వచించండి మరియు టుపుల్ని యాక్సెస్ చేయడం గురించి రాయండి.

7. Write about Random module in Python.
   పైథాన్లోని Random module గురించి రాయండి.

8. Write the differences between Local and Global variables.
   లోకల్ మరియు గ్లోబల్ వేరియబుల్స్ మధ్య తేడాలను రాయండి.

1-5-106-7A-R20   (1)   [P.T.O.]

9. Write about static methods in brief.
   Static methods గురించి క్లుప్తంగా వ్రాయండి.

10. What is a Self Argument?
    Self Argument అంటే ఏమిటి?

SECTION - B
విభాగము – బి
Answer any Five of the following questions. Each question carries equal marks
$$(5 \times 12 = 60)$$

11. Define Data Science. What are the advantages of Data Science.
    డేటా సైన్స్‌ని నిర్వచించండి. డేటా సైన్స్ యొక్క ప్రయోజనాలు ఏమిటి?

12. Explain the process of Data Science.
    డేటా సైన్స్ ప్రక్రియను వివరించండి.

13. Explain the conditional statements in Python with examples.
    పైథాన్‌లోని conditional స్టేట్‌మెంట్‌లను ఉదాహరణలతో వివరించండి.

14. Explain the features of Python.
    పైథాన్ యొక్క విశేషతలను వివరించండి.

15. Explain various string methods.
    వివిధ స్ట్రింగ్ పద్ధతులను వివరించండి.

16. Explain List operations with examples.
    List operation లను ఉదాహరణలతో వివరించండి.

17. Write about the types of functions in Python in detail.
    పైథాన్‌లోని ఫంక్షన్‌ల రకాల గురించి వివరంగా రాయండి.

18. Define Recursion. Write a Python program to find the Factorial of a number using Recursion.
    Recursion ని నిర్వచించండి. Recursion ని ఉపయోగించి సంఖ్య యొక్క Factorial కనుగొనడానికి పైథాన్ program ను రాయండి.

19. Explain Classes and Objects in Python.
    పైథాన్‌లోని Classes మరియు Objects గురించి వివరించండి.

20. What are Public and Private data members? Explain them with suitable examples in Python.
    Public మరియు Private data members అంటే ఏమిటి? వాటిని పైథాన్‌లో తగిన ఉదాహరణలతో వివరించండి.

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Skill Enhancement Course

		ALL Courses
 2-SE-DL-R24	**TITLE OF THE COURSE** **DIGITAL LITERACY**	**Semester-II** **Skill Enhancement** **Course -1**
TIME: 1 ½ Hrs	**MODEL QUESTION PAPER**	**Max Marks: 50**

Answer any 5 of the following questions.
Each question carries 10 marks. 5*10=50 M

1. Write the features of a Browser?
2. How to use word processing? Advantages of word processing?
3. Define E-Mail? Explain its features?
4. What are the advantages of Internet?
5. How to storing a file with proper extension?
6. What are USB Ports? What are the different types of USB Ports?
7. Define Computer? Explain the characteristics of computer?
8. Discuss about formatting features in M.S Word?
9. Write the steps in process of booking Bus tickets through on line with an example?
10. Describe the steps in job search through Employment portals?

Semester -3

Information and Communication Technology

TIME: 1 ½ Hrs   **Max Marks: 50**

Answer any 5 of the following questions.
Each question carries 10 marks. 5*10=50 M

1. Explain any three types of browsers.
2. Describe Internet applications
3. Write about social networking.
4. Identify advantages and disadvantages of E-mail.
5. Discuss G-Suite applications.
6. Describe the overview of internet security.
7. Discuss the most common cyber-attacks.
8. Give some examples of E-mail threats.
9. Write about GOI digital initiatives in higher education SWAYAM, virtual Labs, Academic Depository
10. Write about the mail composition and mail components.