| Course Code | UDS21D01J | Course Name | ADVANCED ANALYTICS AND DATA VISUALIZATION FOR ENTERPRISE | | | 1 200 | ours | | D | | | Disc | iplin | e S _l | peci | fic E | lect | tive | | - | L 4 | T 0 | P 2 | C 5 | |
|--|---|---|---|-----------------------------|----------------|------------|------------------|----------|------------|-------------|-------------|--------------------------|------------|------------------|----------------|-------------|------------|---------------|-----------|---------------|------------|------------|------------|--------------|----------|
| Pre-re | Pre-requisite Courses Nil Co-requisite Courses Nil | | | | | | | 1 | A | Pi | rogre | essiv | e Co | urse | es | Nil | | | | | | | | | |
| Course Offering Department Computer Applications Data Book | | | | | | ode | s/Sta | ndar | ds | Nil | 1 | | | | | | | | | | | | | | |
| Course Le | earning Rationale | (CLR): | The purpose of learning | this course is to, | | Le | earni | ng | | | | 7 | Pro | gran | n Le | arnii | ng C | utco | mes | (PL | 0) | | | | |
| CLR-1: | To make the pa | COUNTY OF A COUNTY OF THE PARTY OF THE | earn how to make sense of | f data by creating informa | tive and | 1 | 2 | 3 | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | |
| CLR-2: | | of data that | with the ways of analyzing the helps companies increase ons | | | | Ĭ, | Ų, | | | | | 7 | | | | | | | | | | | | |
| CLR-3 : | | 77.0070 | with one of the leading data iction called SAP SAC. | visualization tool used in | the market | | I, | * | | | | h | | d | el . | | | | | | | | | | |
| CLR-4: | To let the partic | ipants prov | vide with the details of Crea | part of SAP | | | | d | | | səu | | | dge | | | | | | | | | | | |
| CLR-5: | | <mark>partici</mark> pant | s about some of best practices to keep Analytics Designer | | | | | nt (%) | | Knowledge | Concepts |)isciplin | dge | pon | <u>a</u> | | Data | | Skills | Skills | | | ior | | |
| CLR-6: | To provide the participants with main innovations that are present in CAD Analytics Cloud | | | | | | d Proficiency (% | 0 | Attainment | | 1000000000 | n of Cor | Related | al Knowledge | Specialization | Utilize K | = | Interpret [| ve Skills | Solving S | | Skills | | nal Behavior | Learning |
| Course Le | earning Outcome | es (CLO): | At the end of this course, | learners will be able to: | | Level of T | Expected | Expected | | Fundamental | Application | Link with Related Discip | Procedural | Skills in S | Ability to L | Skills in M | Analyze, I | Investigative | Problem S | Communication | Analytical | ICT Skills | Profession | Life Long | |
| CLO-1: | Have a strong havisuals with the | | kills knowledge and experti | ise in transforming data in | to more useful | 2 | 85 | | | Н | Н | Н | Н | Н | Н | Н | Н | Н | М | М | Н | Н | Н | Н | |
| CLO-2 : | | a strong hands-on skill, knowledge and expertise in creating beautiful stories that are an gral part of SAP analytics | | | | | 85 | 80 | | Н | Н | Н | Н | Н | Н | Н | Н | Н | М | М | Н | Н | Н | Н | |
| CLO-3 : | Get a strong ha | nds-on ski | knowledge and expertise in creating beautiful stories using are an integral part of SAP analytics | | | | 85 | 80 | | Н | Н | Н | Н | Н | Н | Н | Н | Н | М | М | Н | Н | Н | Н | |
| CLO-4 : | Be introduced to the scripting world in SAP analytics for cloud for creating analytical applications | | | | | | 85 | 80 | | Н | Н | Н | Н | Н | Н | Н | Н | Н | М | М | Н | Н | Н | Н | |
| CLO-5 : | Use a hybrid solution where SAC serves as a front-end on top of your BPC backbone called Financial Planning in SAP SAC. | | | | | | | 80 | | Н | Н | Н | Н | Н | Н | Н | Н | Н | М | М | Н | Н | Н | Н | |
| CLO-6 : | Use all three ty | pes of Sma | art Predict scenarios— Class | | ime-Series – | 3 | 85 | 80 | | Н | Н | Н | Н | Н | Н | Н | Н | Н | М | М | Н | Н | Н | Н | |

| S- 10 | SLO-2 | Tailor made Reports | Graphs | Unit 9: Creating Stories using Analytic Application in SAP SAC | Modifying the Custom Widget | Business Benefits of Predictive Analytics in SAP SAC |
|------------------------|----------------|--|-------------------------------------|--|--|---|
| S- 11 & S- 12 | SLO-1 | Lab 2 : | Lab 5 : | Lab 8: | Lab 11: | Lab 14: |
| S- | SLO-1 | Unit 3: What Does the Future Hold for Visualizing Data | Maps | Analytic Application in SAP SAC Overview | Unit 12: Scripting in SAP SAC Analytic Applications | Steps to implement Predictive modelling in SAP SAC |
| 13 | SLO-2 | Future of Data Visualizations | Infographics | Create a New Analytic Application | SAP SAC Best Practices | Identify the ML Scenario |
| _ | SLO-1 | Location Based Analysis | Dashboards | Changing the Name of Widgets | Consider your audience | Data Acquisition |
| S- 14 | SLO-2 | Storytelling will become crucial | Unit 6: Types of Data Visualization | Adding Comments to Widgets and Table Cells | Determine your goals | Data Acquisition |
| S- | SLO-1 | Interactive Dashboards | SAP Analytics for Cloud Overview | Working with the Comment Widget in an Analytic Application | Choose relevant KPIs | Data Discovery |
| 15 | SLO-2 | Data Visualizations for everyone | Features of SAP SAC | Copying and Pasting Widgets and Scripting Objects | Tell a story with your data | Data Processing |
| S- | SLO-1 | Unit 4: Techniques and Best Practices Techniques | Business Benefits of SAP SAC | Copying and Pasting Widgets from Story to Analytic Application | Provide context | Model Creation |
| 16 | SLO-2 | Data Visu <mark>alization</mark> techniques Overview | Key Capabilities of SAP SAC | Restoring Deleted Widgets or Scripting Objects | Pall the right information on the page | Generating Predictions |
| S- 17 & S- 18 | SLO-1 SLO-2 | Lab 3: | Lab 6: | Lab 9: | Lab 12: | Lab 15: |

| | Text books: | References: |
|-----------|--|--|
| Learning | 1. Data Visualization: a successful design process by Andy Kirk Publisher(s): Packt Publishing | 1. The Truthful Art: Data, Charts, and Maps for Communication by Alberto |
| Resources | link: https://www.oreilly.com/library/view/data-visualization-a/9781849693462/ | Cairo Publisher(s): New Riders |
| | 2. SAP Analytics Cloud by Abassin Sidiq publisher: SAP press with Rheinwerk publisher | 2. Learning SAP Analytics Cloud by Riaz Ahmed Publisher(s): Packt Publishing |

| | Diami | | Final Examination | | | | | | | | | |
|------------|------------------------------|--------|-------------------|---------------|----------|--------|----------|---------|-----------|-----------------|----------|--|
| | Bloom's Level of Thinking | CLA - | 1 (10%) | CLA - 2 (10%) | | CLA - | 3 (20%) | CLA - 4 | l (10%) # | (50% weightage) | | |
| | Level of Tilliking | Theory | Practice | Theory | Practice | Theory | Practice | Theory | Practice | Theory | Practice | |
| Lovel 1 | Remember | 200/ | 150/ | 200/ | 150/ | 200/ | 150/ | 200/ | 150/ | 200/ | 150/ | |
| evel 1 Und | Understand | 20% | 15% | 20% | 15% | 20% | 15% | 20% | 15% | 20% | 15% | |
| Level 2 | Apply | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | |
| Level 2 | Analyze | 20 76 | 2076 | 2076 | 20 76 | 20 % | 2076 | 2070 | 20 /6 | 20 76 | 20 /0 | |
| avol 2 | Evaluate | 10% | 150/ | 10% | 150/ | 100/ | 150/ | 100/ | 15% | 100/ | 150/ | |
| Level 3 | Create | 10% | 15% | 10% | 15% | 10% | 15% | 10% | 15% | 10% | 15% | |

| | 1.0 | | 1.0 | 2 | 10 14 |
|-------|-------|-------|-------|-------|-------|
| Total | 100 % | 100 % | 100 % | 100 % | 100 % |

CLA - 4 can be from any combination of these: Assignments, Seminars, Tech Talks, Mini-Projects, Case-Studies, Self-Study, MOOCs, Certifications, Conf. Paper etc.,

| Course Designers | | | | | | | |
|---|--|-----------------------------------|--|--|--|--|--|
| Experts from Industry | Experts from Higher Technical Institutions | Internal Experts | | | | | |
| Mr.Jothi, Periyasamy, Chief Al Architect DeepSphere Al, CA, USA | Dr.S.Gopinathan, Associate Professor, University of Madras, Chennai | Dr.B.Rebecca Jeyavadhanam, SRMIST | | | | | |
| | | Mrs.M.R.Sudha, SRMIST | | | | | |



119