

**Information Technology  
Programme Outcomes (PO)**

<b>PO No.</b>	<b>Upon completion of B.Sc. Degree programme, the graduates will be able to:</b>
PO-1	Make use of knowledge to apply the program principles and provide solution for complex problems
PO-2	Develop the computing practice on legal and ethical principles
PO-3	Demonstrate logical and analytical thinking abilities in the relevant fields by applying the techniques and tools necessary for computing practice
PO-4	Design and implement computing operations for the society
PO-5	Demonstrate Information sharing and retrieval for the usage of applications for other Official works

**Programme Specific Outcomes (PSO)**

<b>PSO No.</b>	<b>Upon completion of B.Sc. Information Technology Degree programme, the graduates will be able to:</b>	<b>Mapping</b>
PSO-1	Understand the basic principles and working process of hardware, software and networking aspects of computer system	PO - 1
PSO-2	Analyze principles and methodologies to implement the software system.	PO - 2
PSO-3	Analyze and develop solution based programs in the areas related to windows application development and mobile application development.	PO-3
PSO-4	Develop software project using programming environment such as ruby, python, java, C, C++, C# by applying software engineering principles and strategies	PO- 3
PSO-5	Analyze the recent trends by using Virtual Reality, Data Mining, Internet of Things in further research work.	PO – 4
PSO-6	Infer with the web designing tools such as Ruby, HTML/CSS, javascript and PHP.	PO – 4
PSO-7	Create their own art by working with graphics and multimedia tools	PO- 5
PSO-8	Demonstrate document creation and photo editing tools	PO- 5
PSO-9	Analyze the networking, operating system and memory management operations.	PO- 2
PSO-10	Assess the client server based application and to analyze the programming concepts.	PO- 3

<b>PART III</b>			
<b>I SEMESTER</b>			
<b>DSC-1</b>	<b>PROGRAMMING IN C</b>		<b>18UCIT11</b>
<b>Hrs / Week : 4</b>	<b>Hrs / Sem : 60</b>	<b>Hrs / Unit : 12</b>	<b>Credits : 4</b>

### **COURSE OUTCOME**

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO-1	Demonstrate various operators and library functions and to define I/O functions	PSO-8	UNDERSTAND
CO-2	Choose the right data representation formats based on the requirements of the problem.	PSO-7	CREATE
CO-3	Compare the limitations of the various programming constructs and choose the right one for the task in hand.	PSO-3	EVALUATE
CO-4	Identify tasks in which the numerical techniques are applied to write programs	PSO-1	APPLY
CO-5	Construct a file manage input and output operations	PSO-7	REMEMBER ,APPLY

<b>I SEMESTER</b>			
<b>DSC-2</b>	<b>COMPUTER AND ITS APPLICATIONS</b>		<b>18UCIT12</b>
<b>Hrs / Week : 3</b>	<b>Hrs / Sem : 45</b>	<b>Hrs / Unit : 9</b>	<b>Credits : 4</b>

### **COURSE OUTCOME**

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO-1	Understand the basics of computer systems	PSO-1	UNDERSTAND
CO-2	Interpreted the number system and logic design	PSO-1	UNDERSTAND
CO-3	Determine the features of networks and database management system	PSO-10	EVALUATE
CO-4	Understand networks Operating system and the basics of computer security	PSO-1	UNDERSTAND
CO-5	Outline the basic concepts of virtual reality and multimedia	PSO-1	UNDERSTAND

<b>I SEMESTER</b>			
<b>DSCP-1</b>	<b>C Programming PRACTICAL</b>	<b>18UCIT1P1</b>	
<b>Hrs / Week :3</b>	<b>Hrs / Sem : 45</b>	<b>Hrs / Unit :9</b>	<b>Credits : 1</b>

**COURSE OUTCOME**

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO-1	Applying the statements in C	PSO-8	UNDERSTAND,APPLY
CO-2	Experiment with arrays with Macrosinic & Inline Function	PSO-8	APPLY
CO-3	Evaluate functions and recursions	PSO-10	EVALUATE
CO-4	Understand the different aspects of hierarchy of classes and their extensibility.	PSO-1	UNDERSTAND
CO-5	Construct the file concept	PSO-4	UNDERSTAND

<b>I SEMESTER</b>		
<b>Allied – Paper – I</b>	<b>OFFICE TOOLS</b>	<b>18UAIT11</b>
<b>Hrs / Week :4</b>	<b>Hrs / Sem : 60</b>	<b>Hrs / Unit : 12 Credits : 3</b>

**COURSE OUTCOME**

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO-1	Understand a Word Processor	PSO-1	UNDERSTAND
CO-2	Create, Edit and Format documents and Save, Protect and Print documents	PSO-7	CREATE
CO-3	Understand a Spreadsheet and to Create, Edit and Formatting of Worksheets	PSO-1	UNDERSTAND
CO-4	Create presentations and apply various tools to manipulate slides	PSO-7	CREATE
CO-5	Demonstrate with database using ms access	PSO-1	UNDERSTAND

<b>I SEMESTER</b>			
<b>Allied – Pratical - I</b>		<b>OFFICE TOOLS PRACTICAL 18UAIT1P1</b>	
<b>Hrs / Week : 2</b>	<b>Hrs / Sem : 30</b>	<b>Hrs / Unit : 6</b>	<b>Credits : 1</b>

**COURSE OUTCOME**

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	Create, Edit and Format documents	PSO-7	CREATE
CO – 2	Understand to edit and format spread sheets	PSO-1	UNDERSTAND
CO – 3	Designing and Formatting the presentation	PSO-8	CREATE
CO - 4	Understand the concepts of mail merge	PSO-1	UNDERSTAND
CO - 5	Utilize the data on tables using queries	PSO-8	APPLY

<b>II SEMESTER</b>			
<b>DSC-3</b>		<b>Object Oriented Programing WITH C++ 18UCIT21</b>	
<b>Hrs / Week : 4</b>	<b>Hrs / Sem : 60</b>	<b>Hrs / Unit : 12</b>	<b>Credits : 4</b>

**COURSE OUTCOME**

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	Understand oops concept and its features.	PSO-1	UNDERSTAND
CO – 2	Discuss the Basic principle of the function	PSO-5	CREATE
CO – 3	Define the concept of operator over loading and templates	PSO-1	REMEMBER
CO - 4	Classify inheritance and Exception handling	PSO-9	UNDERSATND,APPLY
CO - 5	Explain the file handling concept	PSO-10	EVALUATE

<b>II SEMESTER</b>		
<b>DSC-4</b>	<b>Digital Principles and System Architecture</b>	<b>18UCIT22</b>
<b>Hrs / Week : 3</b>	<b>Hrs / Sem : 45Hrs / Unit : 9</b>	<b>Credits : 4</b>

**COURSE OUTCOME**

<b>CO. No.</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	Understand the fundamentals of Boolean algebra	PSO-1	UNDERSTAND
CO – 2	Solve K-maps	PSO-7	CREATE
CO – 3	Outline the sequential circuits, flip flop and register	PSO-4	APPLY
CO - 4	Understand the concept of I/P,O/P organization	PSO-1	UNDERSTAND
CO - 5	Discuss the memory organization concept	PSO-7	CREATE

<b>II SEMESTER</b>		
<b>DSCP-2</b>	<b>C++ PRACTICAL</b>	<b>18UCIT2P1</b>
<b>Hrs / Week :3</b>	<b>Hrs / Sem : 45</b>	<b>Credits : 1</b>

**COURSE OUTCOMES**

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	Demonstrate the manipulators	PSO-1	UNDERSTAND
CO – 2	Develop the banking operations	PSO-4	APPLY,CREATE
CO – 3	Build the concept of over loading inheritance	PSO-7	CREATE,APPLY
CO - 4	Make use of polymorphism, Virtual Functions	PSO-4	APPLY
CO - 5	Construct the files	PSO-7	CREATE

<b>II SEMESTER</b>			
<b>Allied – Paper - II</b>	<b>WEB DESIGNING TOOLS</b>		<b>18UAIT21</b>
<b>Hrs / Week : 4</b>	<b>Hrs / Sem : 60</b>	<b>Hrs / Unit : 12</b>	<b>Credits : 3</b>

**COURSE OUTCOME**

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	Discuss the properties of HTML	PSO-7	CREATE
CO – 2	Analyze the concept of frames and forms.	PSO-2	ANALYZE
CO – 3	Make use of the functions of CSS in html to design a static webpage .	PSO-4	APPLY
CO - 4	Discuss the concept of RUBY programming	PSO-7	CREATE
CO - 5	Utilize the Exception handling method	PSO-4	APPLY

<b>II SEMESTER</b>		
<b>A P- II</b>	<b>WEB DESIGNING PRACTICAL</b>	<b>18UAIT2P1</b>
<b>Hrs / Week : 2</b>	<b>Hrs / Sem : 30</b>	<b>Credits : 1</b>

**COURSE OUTCOME**

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	Design a webpage using HTML	PSO-7	CREATE
CO – 2	To construct CSS in web pages	PSO-7	CREATE
CO – 3	Modify the web pages using table and forms.	PSO-7	CREATE
CO - 4	Construct the ideas on ruby	PSO-7	CREATE,APPLY
CO - 5	Determine the function of ruby programming	PSO-10	EVALUATE

<b>III SEMESTER</b>			
<b>DSC-5</b>	<b>Programming in JAVA</b>		<b>18UCIT31</b>
<b>Hrs / Week : 4</b>	<b>Hrs / Sem : 60</b>	<b>Hrs / Unit : 12</b>	<b>Credits :4</b>

**COURSE OUTCOME**

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	Relate oops concepts in java	PSO-1	UNDERSTAND,REMEMBER
CO – 2	Explain the basic problems of decision making & looping	PSO-10	EVALUATE
CO – 3	Explain basic problem solving skills: analyzing problems, modeling a problem as a system of objects.	PSO-5	ANALYZE
CO - 4	Relate the packages in java	PSO-1	UNDERSTAND
CO - 5	Construct the programs using applet,AWT	PSO-7	REMEMBER ,CREATE

<b>III SEMESTER</b>			
<b>DSC-6</b>	<b>DATA STRUCTURE</b>		<b>18UCIT32</b>
<b>Hrs / Week : 4</b>	<b>Hrs / Sem : 60</b>	<b>Hrs / Unit : 12</b>	<b>Credits : 4</b>

**COURSE OUTCOME**

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	Understand the algorithms	PSO-1	UNDERSTAND
CO – 2	Analyze the concept of stack and queues.	PSO-2	ANALYZE
CO – 3	Categorize the various concept of tree in data structure	PSO-2	ANALYZE
CO - 4	Explain the concept of heaps ,graphs.	PSO-10	EVALUATE
CO - 5	Analyze the sorting and searching problems.	PSO-4	APPLY

<b>III SEMESTER</b>			
<b>DSC-7</b>	<b>DATA COMMUNICATION AND NETWORKING</b>		<b>18UCIT33</b>
<b>Hrs / Week : 4</b>	<b>Hrs / Sem : 60</b>	<b>Hrs / Unit : 12</b>	<b>Credits : 4</b>

**COURSE OUTCOME**

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	Identify the functions of each layer in OSI and TCP/IP model.	PSO-4	APPLY
CO – 2	Explain transmission medias	PSO-10	EVALUATE
CO – 3	Examine errors and flow controls	PSO-2	ANALYZE
CO - 4	Classify the routing protocols.	PSO-5	ANALYZE
CO - 5	Identify functions of application layer	PSO-4	APPLY

<b>III SEMESTER</b>		
<b>DSCP 3</b>	<b>PROGRAMMING IN JAVA PRACTICAL</b>	<b>18UCIT3P1</b>
<b>Hrs / Week : 3</b>	<b>Hrs / Sem : 45</b>	<b>Credits : 2</b>

**COURSE OUTCOME**

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	Develop the concept of JAVA programming	PSO-4	CREATE,APPLY
CO – 2	Designing the methods in JAVA	PSO-7	CREATE
CO – 3	Develop the concepts of streams and files .	PSO-7	CREATE
CO - 4	Demonstrate SDK in java.	PSO-1	UNDERSTAND
CO - 5	Apply the design in applet.	PSO-7	APPLY



<b>III SEMESTER</b>		
<b>DSE-1 A</b>	<b>VB.NET</b>	<b>18UEIT3A</b>
<b>Hrs / Week :3</b>	<b>Hrs / Sem : 45Hrs / Unit : 9</b>	<b>Credits : 4</b>

**COURSE OUTCOME**

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	Understand the concept in .NET programming	PSO-1	UNDERSTAND
CO – 2	Design and validate .NET controls.	PSO-7	CREATE
CO – 3	Expand the OOPS concept of VB .NET	PSO-1	UNDERSTAND
CO - 4	Evaluate web forms and controls	PSO-10	EVALUATE
CO - 5	Utilize the control in ADO.NET	PSO-4	APPLY

<b>III SEMESTER</b>			
<b>DSE-1B</b>	<b>MICROPROCESSOR</b>	<b>18UAIT3B</b>	
<b>Hrs/Week: 3</b>	<b>Hrs/Sem: 45</b>	<b>Hrs./ Unit: 9</b>	<b>Credits:4</b>

**COURSE OUTCOME**

<b>CO No.</b>	<b>Upon completion of this course, students will be able to</b>	<b>PSO addressed</b>	<b>Blooms taxonomy classification</b>
CO-1	Understand the instruction in processor	PSO -1	UNDERSTAND
CO-2	Apply problem solving in 8085 instruction	PSO- 4	APPLY
CO-3	Outline the programming techniques	PSO-1	UNDERSTAND
CO-4	Discuss the stack & sub routine concepts	PSO- 7	CREATE
CO-5	Distinguish the various process	PSO-4	APPLY

<b>III SEMESTER</b>			
<b>A - III</b>	<b>DESKTOP PUBLISHING</b>	<b>18UAIT31</b>	
<b>Hrs / Week : 4</b>	<b>Hrs / Sem : 60</b>	<b>Hrs / Unit : 12</b>	<b>Credits : 3</b>

**COURSE OUTCOME**

<b>CO No.</b>	<b>Upon completion of this course, students will be able to</b>	<b>PSO addressed</b>	<b>Blooms taxonomy classification</b>
CO-1	Create Documents and Templates	PSO-7	CREATE
CO-2	Create TOC,design graphical effects using various properties	PSO-7	CREATE
CO-3	Demonstrate text formatting	PSO-1	UNDERSTAND
CO-4	Enhance the images and using Editing	PSO-7	CREATE
CO-5	Tools extend the interaction using layer	PSO-1	UNDERSTAND

<b>III SEMESTER</b>		
<b>AP - III</b>	<b>DESKTOP PUBLISHING PRACTICAL</b>	<b>18UAIT3P1</b>
<b>Hrs / Week : 2</b>	<b>Hrs / Sem : 30</b>	<b>Credits :1</b>

Course Outcome

<b>CO No.</b>	<b>Upon completion of this course, students will be able to</b>	<b>PSO addressed</b>	<b>Blooms taxonomy classification</b>
CO-1	Build the document using page maker	PSO-4	APPLY
CO-2	Make use of Advance document editing tools	PSO-4	APPLY
CO-3	design logos and images	PSO-1	CREATE
CO-4	Experiment with photoshop image to construct their CREATE	PSO-4	APPLY
CO-5	Utilize the image editing tools	PSO-4	APPLY

<b>III SEMESTER</b>		
<b>DSEP – I-1</b>	<b>VB.NET PRACTICAL</b>	<b>18UEIT3PA</b>
<b>Hrs / Week : 4</b>	<b>Hrs / Sem : 60</b>	<b>Credits : 1</b>

COURSE OUTCOME

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	Design VB.NET applications.	PSO-7	CREATE
CO – 2	Test the control in VB.NET	PSO-7	CREATE
CO – 3	Construct web pages	PSO-4	APPLY
CO - 4	Test validation control	PSO-7	CREATE
CO - 5	Design the data grid control	PSO-7	CREATE

<b>III SEMESTER</b>		
<b>DSEP-I-2</b>	<b>MICROPROCESSOR PRACTICAL</b>	<b>18UEIT3PB</b>
<b>Hrs/Week: 4</b>	<b>Hrs/Sem: 60</b>	<b>Credit:1</b>

#### COURSE OUTCOME

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	Examine arithmetic operations.	PSO-3	ANALYZE
CO – 2	Build an Assembly Language Programming.	PSO-7	CREATE
CO – 3	Make use of peripheral devices with 8085 microprocessor	PSO-4	APPLY
CO - 4	Understand the instruction in Micro-processors	PSO-1	UNDERSTAND
CO - 5	Develop embedded systems	PSO-7	CREATE

<b>III SEMESTER</b>			
<b>NME-I</b>	<b>PHOTO EDITING AND ANIMATION</b>		<b>18UNIT31</b>
<b>Hrs / Week : 2</b>	<b>Hrs/Sem: 30</b>	<b>Hrs/Unit: 5</b>	<b>Credits:2</b>

**COURSE OUTCOME**

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO-1	Build graphics with CREATE	PSO-7	CREATE
CO-2	Understand the filters in photoshop	PSO-1	UNDERSTAND
CO-3	Create a movie using flash	PSO-7	CREATE
CO-4	Show the difference in color using color palette	PSO-1	REMEMBER,UNDERSTAND
CO-5	Construct the script in flash	PSO-7	CREATE

<b>IV SEMESTER</b>			
<b>DSC-8</b>	<b>RDBMS with Oracle</b>		<b>18UCIT41</b>
<b>Hrs / Week : 4</b>	<b>Hrs / Sem : 60</b>	<b>Hrs / Unit : 12</b>	<b>Credits : 4</b>

**COURSE OUTCOME**

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	Understand the basic concepts of relation in DBMS	PSO-1	UNDERSTAND
CO – 2	Analyze the relational algebra	PSO-3	ANALYZE
CO – 3	Experiment with tables and join operators	PSO-4	APPLY
CO - 4	Test the data control and Exception	PSO-7	CREATE
CO - 5	Examine the function packages in data base	PSO-3	ANALYZE

<b>IV SEMESTER</b>		
<b>DSC-9</b>	<b>OPERATING SYSTEM</b>	<b>18UCIT42</b>

**Hrs / Week : 4      Hrs / Sem : 60      Hrs / Unit : 12      Credits : 4**

**COURSE OUTCOME**

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	Understand the concept of operating systems	PSO-1	UNDERSTAND
CO – 2	Demonstrate the threads and scheduling in OS	PSO-1	UNDERSTAND,CREATE
CO – 3	Analyze the deadlock in operating system	PSO-9	ANALYZE
CO - 4	Evaluate the concept of scheduling in os	PSO-10	EVALUATE
CO - 5	Understand the space management system and distributed system	PSO-1	UNDERSTAND

**IV SEMESTER**

**DSC-10      INTERNET of THINGS      18UCIT43**

**Hrs / Week : 4      Hrs / Sem : 60      Hrs / Unit : 12      Credits : 4**

**COURSE OUTCOME**

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO – 1	Understand the concepts of IOT	PSO-1	UNDERSTAND
CO – 2	Evaluate protocols used in IOT and the data received through sensors in IOT.	PSO-10	EVALUATE
CO – 3	Categorize Communication Technologies in IOT	PSO-5	ANALYZE
CO – 4	Apply the application of IOT in Industrial Automation and identify Real World Design constrains.	PSO-4	APPLY
CO – 5	Construct the project based on software using IOT	PSO-7	CREATE

**IV SEMESTER**

**DSCP 5      RDBMS WITH Oracle PRACTICAL      18UCIT4P1**

**Hrs / Week : 3Hrs / Sem : 45      Credits : 2**

**COURSE OUTCOME**

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO – 1	Construct queries using SQL.	PSO-4	APPLY
CO – 2	Experiment with RDBMS concept	PSO-4	APPLY
CO – 3	Build the PL/SQL Program	PSO-7	CREATE
CO – 4	Make use of views, triggers, cursors.etc	PSO-4	APPLY
CO – 5	Construct the function and procedures	PSO-4	APPLY

<b>IV SEMESTER</b>		
<b>DSE-2A</b>	<b>PYTHON PROGRAMMING</b>	<b>18UEIT4A</b>
<b>Hrs / Week :3Hrs / Sem : 45Hrs / Unit : 9</b>		<b>Credits : 4</b>

#### COURSE OUTCOME

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
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CO - 1	Understand the fundamental concept of pythons	PSO-7	CREATE
CO – 2	Analyze the looping and control statements in python	PSO-3	ANALYZE
CO – 3	Evaluate the data structures like lists, dictionaries, tuples and sets.	PSO-10	EVALUATE
CO - 4	Analyze the file concept	PSO-10	EVALUATE
CO - 5	Analyze the modules and exception handling	PSO-9	ANALYZE

<b>IV SEMESTER</b>			
<b>DSE-2 B</b>	<b>ACTIVE SERVER PAGES</b>	<b>18UEIT4B</b>	
<b>Hrs/Week: 3</b>	<b>Hrs/Sem: 45</b>	<b>Hrs./ Unit: 9</b>	<b>Credits: 4</b>

#### COURSE OUTCOME

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	Understand the fundamental in ASP Applications	PSO-1	UNDERSTAND
CO – 2	Define the component in ASP.	PSO-10	REMEMBER
CO – 3	Outline the control in ASP	PSO-1	UNDERSTAND
CO - 4	Define the cookies concept in ASP	PSO-10	EVALUATE
CO - 5	Analyze the file system in ASP.	PSO-3	ANALYZE

<b>IV SEMESTER</b>			
<b>A – IV</b>	<b>UNIX and Shell Programming</b>	<b>18UAIT41</b>	
<b>Hrs / Week : 4</b>	<b>Hrs / Sem : 60</b>	<b>Hrs / Unit : 12</b>	<b>Credits :3</b>

#### COURSE OUTCOME

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	Understand the architecture and features of UNIX	PSO-1	UNDERSTAND
CO – 2	Define the basic command and vi editor in UNIX	PSO-6	REMEMBER

CO – 3	Define the process states and file system	PSO-7	CREATE
CO - 4	Understand the filters and regular expressions	PSO-1	UNDERSTAND
CO - 5	Evaluate shell script in UNIX	PSO-10	EVALUATE

<b>IV SEMESTER</b>			
<b>AP – IV</b>	<b>UNIX SHELL PRACTICAL</b>	<b>18UAIT4P1</b>	
<b>Hrs / Week : 2</b>	<b>Hrs / Sem : 30</b>	<b>Hrs / Unit : 6</b>	<b>Credits : 1</b>

#### COURSE OUTCOME

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	Experiment with the concept of OS in shell programming	PSO-4	APPLY
CO –2	Solve the problem in shell programming	PSO-7	CREATE
CO –3	Build file access in UNIX	PSO-4	APPLY
CO - 4	Develop the file system and accessing the file	PSO-7	CREATE
CO - 5	Examine the expressions using the grep command	PSO-2	ANALYZE

<b>IV SEMESTER</b>			
<b>DSCP VI</b>	<b>PYTHON PRACTICAL</b>	<b>18UEIT4PA</b>	
<b>Hrs / Week : 4</b>	<b>Hrs / Sem : 60</b>	<b>Hrs / Unit : 12</b>	<b>Credits : 1</b>

**COURSE OUTCOME**

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	Demonstrate the basic calculation using operators and function	PSO-1	UNDERSTAND
CO – 2	Create Python program using objects and classes	PSO-7	CREATE
CO – 3	Design Simple application in python	PSO-7	CREATE
CO - 4	Create APIs modules in python programming	PSO-7	CREATE
CO - 5	Build systems using web development process using various tools	PSO-4	APPLY

<b>IV SEMESTER</b>		
<b>DSCP VI</b>	<b>ACTIVE SERVER PAGES PRACTICAL</b>	<b>18UEIT4PB</b>
<b>Hrs/Week: 2</b>	<b>Hrs/Sem: 30 CRETIS: 1</b>	

**COURSE OUTCOME**

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	Test Cookies in ASP Applications	PSO-7	CREATIVTY
CO – 2	Make use of Query String in ASP.	PSO-4	APPLY
CO – 3	Demonstrate events in ASP	PSO-1	UNDERSTAND
CO - 4	Design the Browser Capability Component.	PSO-7	CREATE
CO - 5	Build the Files and the File System	PSO-7	CREATIVITYY

<b>IV SEMESTER</b>		
<b>NME-II</b>	<b>DOCUMENT CREATION TOOLS</b>	<b>18UNIT41</b>
<b>Hrs / Week : 2</b>	<b>CRETIS:2</b>	

**COURSE OUTCOME**

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO-1	Understand the basic editing operations	PSO-1	UNDERSTAND
CO-2	Analyze the editing tools	PSO-9	ANALYZE
CO-3	Design the 3D images in coreldraw .	PSO-7	CREATE
CO-4	Create book model using page maker .	PSO-7	CREATE
CO-5	Outline the usage of tools in page maker	PSO-1	UNDERSTAND

**Information Technology**

<b>V SEMESTER</b>			
<b>DSC-11</b>	<b>COMPUTER GRAPHICS AND MULTIMEDIA</b>		<b>18UCIT51</b>
<b>Hrs / Week : 6</b>	<b>Hrs / Sem : 90</b>	<b>Hrs / Unit : 18</b>	<b>Credits :4</b>

**COURSE OUTCOME**

<b>CO No.</b>	<b>Upon completion of this course, students will be able to</b>	<b>PSO addressed</b>	<b>Blooms taxonomy classification</b>
<b>CO-1</b>	Understand graphics programs in 2D Transformations	PSO-1	UNDERSTAND
<b>CO-2</b>	Classify different clipping algorithm	PSO-9	ANALYZE

<b>CO-3</b>	Build and apply 3D Transformations in 3D objects	PSO-7	CREATE
<b>CO-4</b>	Understand Interactive graphics Animations	PSO-10	EVALUATE
<b>CO-5</b>	Demonstrate Scenes and movie clips	PSO-6	REMEMBER

<b>V SEMESTER</b>			
<b>DSC-12</b>	<b>DOT NET PROGRAMMING</b>		<b>18UCIT52</b>
<b>Hrs / Week : 6</b>	<b>Hrs / Sem : 90</b>	<b>Hrs / Unit : 18</b>	<b>Credits : 4</b>

#### COURSE OUTCOME

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	Understand class Programming Concepts	PSO-1	UNDERSTAND
CO - 2	Create Websites in ASP.NET Application	PSO-7	CREATE
CO - 3	Understand Validation controls and CSS in C#	PSO-1	UNDERSTAND
CO - 4	Understand file system by Reading and writing with streams	PSO-1	UNDERSTAND
CO - 5	Apply AJAX Concepts im	PSO-4	APPLY

	Websites		
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V SEMESTER		
<b>SEC-4</b>	<b>ARTIFICIAL INTELLIGENCE</b>	<b>18UCIT53</b>
<b>Hrs / Week : 2Hrs / Sem : 30</b>	<b>Hrs / Unit : 6</b>	<b>Credits :4</b>

COURSE OUTCOME

Co No	Upon Completion of this course, students will be able to	PSO Addressed	Blooms Taxonomy Classification
CO - 1	Understand Intelligent Agents and Environments in AI	PSO-1	UNDERSTAND
CO - 2	Explain Knowledge based agents and first order logic	PSO-1	UNDERSTAND
CO - 3	Explain the natural language processing and communications	PSO 1	UNDERSTAND
CO - 4	Analyze the image processing and 3D world object Recognition	PSO 2	ANALYZE
CO - 5	Explain the Robotics Concepts in AI	PSO 1	UNDERSTAND

V SEMESTER			
<b>DSCPVII</b>	<b>COMPUTER GRAPHICS and MULTIMEDIA PRACTICAL</b>	<b>18UCIT5P1</b>	
<b>Hrs / Week : 4</b>	<b>Hrs / Sem : 60</b>	<b>Hrs / Unit : 12</b>	<b>Credits : 2</b>

COURSE OUTCOME

Co No	Upon Completion of this course, students will be able to	PSO Addressed	Blooms Taxonomy Classification
<b>CO-1</b>	Experiments with Algorithms	PSO-4	APPLY
<b>CO-2</b>	Construct Animation Objects	PSO-4	APPLY
<b>CO-3</b>	Build Transformations of objects.	PSO-7	CREATE
<b>CO-4</b>	Construct Draggable Movie Clips	PSO-7	CREATE
<b>CO-5</b>	Develop Buttons to create links	PSO-4	APPLY

<b>V SEMESTER</b>			
<b>DSE-3A</b>	<b>PHP PROGRAMMING</b>		<b>18UEIT5A</b>
<b>Hrs/ Week : 4</b>	<b>Hrs / Sem : 60</b>	<b>Hrs / Unit : 15</b>	<b>Credits : 4</b>

**COURSE OUTCOME**

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	Examine the Variables with operators in PHP	PSO-7	CREATE
CO – 2	Recall the loops and conditional Statements	PSO-6	REMEMBER
CO – 3	Demonstrate arrays and function	PSO-1	UNDERSTAND
CO - 4	Relate the database with PHP application	PSO-1	UNDERSTAND
CO - 5	Define cookies and sessions	PSO-6	REMEMBER

<b>V SEMESTER</b>			
<b>DSE-3B</b>	<b>J2EE PROGRAMMING</b>		<b>18UEIT5B</b>
<b>Hrs / Week : 4</b>	<b>Hrs / Sem : 60</b>	<b>Hrs / Unit : 15</b>	<b>Credits : 4</b>

**COURSE OUTCOME**

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	Explain the Advanced concepts in JAVA	PSO-1	UNDERSTAND
CO – 2	Classify the database connection	PSO-2	ANALYZE
CO – 3	Recall Session and cookies	PSO-6	REMEMBER



CO - 4	Define Servlet to handle forms in JAVA	PSO-6	REMEMBER
CO - 5	Create RMI Applications	PSO-7	CREATE

<b>V SEMESTER</b>			
<b>DSCP VIII</b>	<b>PHP PRACTICAL</b>		<b>18UEIT5PA</b>
<b>Hrs / Week : 5</b>	<b>Hrs / Sem : 75</b>	<b>Hrs / Unit : 15</b>	<b>Credits : 2</b>

**COURSE OUTCOME**

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	Control structures and build looping statements in PHP	PSO-7	CREATE
CO – 2	Develop Web pages using PHP	PSO-4	APPLY
CO – 3	Make use of read,write commands in file system	PSO-4	APPLY
CO - 4	Evaluate the Validations in PHP	PSO-10	EVALUATE
CO - 5	Solve Exception Handling in PHP	PSO-4	Apply

<b>V SEMESTER</b>			
<b>DSCP VIII</b>	<b>J2EE PRACTICAL</b>		<b>18UEIT5PB</b>
<b>Hrs / Week : 5</b>	<b>Hrs / Sem : 75</b>	<b>Hrs / Unit : 15</b>	<b>Credits : 2</b>

**COURSE OUTCOME**

<b>CO No.</b>	<b>Upon completion of this course, students will be able to</b>	<b>PSO addressed</b>	<b>Blooms taxonomy classification</b>
CO-1	Create tables using Access Database	PSO-7	CREATE
CO-2	Create Servlets to	PSO-7	CREATE

	Display the message		
CO-3	Design Forms for user Inputs	PSO-7	CREATE
CO-4	Build RMI programs	PSO-10	EVALUATE
CO-5	Make use of Client-Server Applications	PSO-4	APPLY

<b>V SEMESTER</b>			
<b>SEC-3</b>	<b>INTERNET SECURITY</b>		<b>18USIT51</b>
<b>Hrs / Week : 2</b>	<b>Hrs / Sem : 30</b>	<b>Hrs / Unit : 6</b>	<b>Credits :2</b>

#### COURSE OUTCOME

Co No	Upon Completion of this course, students will be able to	PSO Addressed	Blooms Taxonomy Classification
CO - 1	Understand Internet Security Attacks and services	PSO-1	UNDERSTAND
CO – 2	Define Cryptography Principles	PSO-6	REMEMBER
CO – 3	Demonstrate HTTP and end to end Security	PSO-1	UNDERSTAND
CO - 4	Classify the types of malicious software	PSO-1	UNDERSTAND
CO - 5	Outline IP security Policies	PSO-1	UNDERSTAND

<b>VI SEMESTER</b>			
<b>DSC - 13</b>	<b>MOBILE APPLICATIONS DEVELOPMENT</b>		<b>18UCIT61</b>
<b>Hrs / Week : 5</b>	<b>Hrs / Sem : 75</b>	<b>Hrs / Unit : 15</b>	<b>Credits : 4</b>

#### COURSE OUTCOME

Co No	Upon Completion of this course, students will be able to	PSO Addressed	Blooms Taxonomy Classification
CO - 1	Explain Android platform, Architecture and features.	PSO-1	UNDERSTAND
CO – 2	Design User Interface and develop activity for Android App.	PSO-7	CREATE
CO – 3	Elaborate user Interface Design	PSO-7	CREATE

CO - 4	Design compatible applications	PSO-7	CREATE
CO - 5	Create Android Application	PSO-7	CREATE

<b>VI SEMESTER</b>			
<b>DSC 14</b>	<b>SOFTWARE ENGINEERING</b>	<b>18UCIT62</b>	
<b>Hrs / Week : 5</b>	<b>Hrs / Sem : 75</b>	<b>Hrs / Unit : 15</b>	<b>Credits : 4</b>

**COURSE OUTCOME**

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	Understand Software processing models	PSO-1	UNDERSTAND
CO - 2	Explain Computer based System and Requirement Engineering	PSO-1	UNDERSTAND
CO - 3	Analyze DataFlow Diagram	PSO-9	ANALYZE
CO - 4	Design the text cases in Software Engineering	PSO-7	CREATE
CO - 5	Evaluate the Quality Standards	PSO-10	EVALUATE

<b>VI SEMESTER</b>		
<b>SEC-4</b>	<b>PROJECT</b>	<b>18UCIT63</b>
<b>Hrs / Week : 2</b>	<b>Hrs / Sem : 30</b>	<b>Hrs / Unit : 6</b>
		<b>Credits : 6</b>

**COURSE OUTCOME**

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	Apply the Programming and Web Designing Concepts using .NET	PSO-4	APPLY
CO - 2	Analyze the software engineering Concepts implements the process	PSO-2	ANALYZE
CO - 3	Implement the Client-Server side function using Script Languages	PSO 7	CREATE
CO - 4	Develop the real applications using Android	PSO 7	CREATE
CO - 5	Build the structure of data processing using Mining Techniques	PSO 7	CREATE

<b>VI SEMESTER</b>		
<b>DSCP IX</b>	<b>MOBILE APPLICATIONS DEVELOPMENT PRACTICAL</b>	<b>18UCIT6P1</b>
<b>Hrs / Week : 4</b>	<b>Hrs / Sem : 60</b>	<b>Credits : 2</b>

**COURSE OUTCOME**

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	Design Android Applications for user Interface Controls	PSO-7	CREATE
CO - 2	Build Login Operations	PSO-7	CREATE
CO - 3	Create database Android Application	PSO-7	CREATE
CO - 4	Design Different kinds of Layout	PSO-7	CREATE
CO - 5	Create Animations in Android	PSO-7	CREATE

<b>VI SEMESTER</b>			
<b>DSE-4A</b>	<b>DATA MINING</b>		<b>18UEIT6A</b>
<b>Hrs / Week : 5</b>	<b>Hrs / Sem : 75</b>	<b>Hrs / Unit : 15</b>	<b>Credits : 4</b>

**COURSE OUTCOME**

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	Understand Data Mining Concepts and Techniques	PSO-1	UNDERSTAND
CO - 2	Classify Algorithms to improve the Efficiency	PSO-1	UNDERSTAND
CO - 3	Build a Decision Tree	PSO-7	CREATE
CO - 4	Analyze Clustering and Web Mining	PSO-2	ANALYZE
CO - 5	Design Data Warehouse for Data Mining	PSO-7	CREATE

<b>VI SEMESTER</b>			
<b>DSE-4B</b>	<b>VIRTUAL REALITY</b>		<b>18UEIT6B</b>
<b>Hrs / Week : 5</b>	<b>Hrs / Sem : 75</b>	<b>Hrs / Unit : 15</b>	<b>Credits : 4</b>

**COURSE OUTCOME**

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	Understand Human physiology and Perception	PSO-1	UNDERSTAND
CO – 2	Demonstrate Human Eye and Cameras and Functions	PSO-1	UNDERSTAND
CO – 3	Explain the Motious in real and Virtual World	PSO-1	UNDERSTAND
CO - 4	Classify 2D & 3D Environments	PSO-1	UNDERSTAND
CO - 5	Evaluate VR systems and experiences	PSO-10	EVALUATE

<b>VI SEMESTER</b>		
<b>DSEP-4</b>	<b>ELECTIVE PRACTICAL</b>	<b>18UEIT6PA</b>
<b>Hrs/Week: 4</b>	<b>Hrs/Sem: 60</b>	<b>Credits:2</b>

### **DATA MINING PRACTICAL**

#### **COURSE OUTCOME**

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	Demonstrate Weka Tools for Banking Data	PSO-1	UNDERSTAND
CO – 2	Construct Decision tree for weather Data	PSO-4	APPLY
CO – 3	Design Association Rule Process on DataSet	PSO-7	CREATE
CO - 4	Make use of Classsification rule process on Employee Data	PSO-4	APPLY
CO - 5	Build Clustering rule process using k-means	PSO-7	CREATE

<b>VI SEMESTER</b>		
<b>DSEP-4</b>	<b>ELECTIVE PRACTICAL</b>	<b>18UEIT6PB</b>
<b>Hrs/Week: 4</b>	<b>Hrs/Sem: 60</b>	<b>Credits:2</b>

### VIRTUAL REALITY USING UNITY

#### COURSE OUTCOME

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	To create animations in virtual reality using UNITY tool.	PSO-7	CREATE
CO – 2	Build Player and Camera Unity	PSO-7	CREATE
CO – 3	To create Survival Shooters and tanks	PSO-7	CREATE
CO - 4	Construct Targeting and Firing Operations	PSO-7	CREATE
CO - 5	Build Sounds and stages for Movies	PSO-4	APPLY

<b>VI SEMESTER</b>		
<b>SEC-2</b>	<b>JAVA SCRIPT</b>	<b>18USIT61</b>
<b>Hrs / Week : 2Hrs / Sem : 30</b>	<b>Hrs / Unit : 6</b>	<b>Credits :2</b>

#### COURSE OUTCOME

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	Understand java script functions and asynchronous operations	PSO-1	UNDERSTAND
CO – 2	Define the Prototypal Inheritance with Stamps	PSO-6	REMEMBER
CO – 3	Explain Client side and server side Concerns	PSO 3=1	UNDERSTAND
CO - 4	Analyze Servers operations and login Requests	PSO 9	ANALYZE
CO - 5	Build Application program interfaces in Java Script	PSO 7	CREATE

<b>VI SEMESTER</b>		
<b>SEC-4</b>	<b>PERSONALITY DEVELOPMENT</b>	<b>18USPD62</b>
<b>Hrs / Week : 2</b>	<b>Hrs / Sem : 30</b>	<b>Hrs / Unit : 6</b> <b>Credits :2</b>

**COURSE OUTCOME**

<b>Co No</b>	<b>Upon Completion of this course, students will be able to</b>	<b>PSO Addressed</b>	<b>Blooms Taxonomy Classification</b>
CO - 1	Ability to set the goal and make their personal behavior with positive attitude	PSO-1	UNDERSTAND
CO – 2	Understand the importance of Communication and listening	PSO-9	ANALYZE
CO – 3	To understand the concepts of various types of letter drafting technique	PSO 7	CREATE
CO - 4	To know about group discussion and interview skills	PSO 10	EVALUATE
CO - 5	To be effective in time management	PSO 6	REMEMBER