Rajarshi Shahu Mahavidyalaya (Autonomous), Latur
Faculty of Information Technology

Structured Work Plan for Teaching

Academic Year (2020 - 2021)

(06-Jul-2020 TO 15-Nov-2020)

1. Details of Classes to be taught

Sr. No.	Class	Name of Asst. Prof.	Course Title	Course Code
1	BCA S.Y. III Sem		Multimedia Using Flash	U-MUF-393
2	BCA S.Y. V Sem	Dr. S. V.Patil	Cloud Computing Technology	U-CCT-618

2. Summary of Lesson Plan

Name of Teacher: Dr.S.V.Patil   Class   : BCA S.Y. III Sem

Teaching Hours: 90

Sr. No.	Course Title and Course Code	Unit and Chapter to be covered	Date FROM	Date TO	No. of Lectures	Academic activities to be organized	No. of Test / Assignment with topic
1	Multimedia Using Flash U-MUF-393	Unit I: 1.1. The Flash stage 1.2. Stage Settings 1.3. Creating a new Flash file 1.4. The various import formats	06-07-2020 & 10/08/2020	08-08-2020 & 25/08/2020	20 12	Seminars	

		1.5. Timeline- Play head/Frames/Key Frames/ Blank frames 1.6. Menus, Toolbox and Properties 1.7. Color Swatches and Color Mixer 1.8. Rulers, Guides, Grids and Snappings					Assignments on Flash Software
2		Unit II: 2. **Introduction** 2.1. CDROM and Multimedia Highway 2.2. Applications of Multimedia 2.3. Stages of Multimedia Project 3. **Macintosh and Windows Productions Platforms** 3.1. Macintosh Platform 3.2. Windows Platform 3.3. Connections- SCSI and IDE 3.4. Memory and Storage devices 3.5. Input and Output Devices	26-08-2020 & 15/09/2020	14-09-2020 & 30/09/2020	13 13	Practical approach to Multimedia Components	Oral Exam
3		Unit III: 4. **Basic Software Tools** 4.1. Text editing and word Processing tools					

		4.2. Painting and drawing tools 4.3. Image Editing Tools 4.4. Sound Editing Tools 4.5. Font Editing and designing tools 4.6. Hypermedia and Hypertext 4.7. Making Still Images : BITMAPS , Vector Drawing 4.8. Colors, Image file formats	01-10-2020 & 10/10/2020	17-10-2020 & 01/11/2020	13 10	Seminars	Creating a web page by using java Script
4		Unit IV: 5. **Animation and Video** 5.1. Principal of Animation 5.2. Making animation that work: Rolling Ball, Bouncing ball 5.3. Using Video 5.4. Broadcast Video Standards 5.5. Recording Formats	02-11-2020	12-11-2020	08	Creating Animations	Assignments on Animation

Name of Teacher: Dr.S.V.Patil   **Class   : BCA T.Y. V Sem**

Teaching Hours: 90

2. **Summary of Lesson Plan**

Sr. No.	Course Title and Course Code	Unit and Chapter to be covered	Date		No. of Lectures	Academic activities to be organized	No. of Test / Assignment with topic
			FROM	TO			
1	Cloud Computing Technology U-CCT-618	UNIT I Cloud Computing and Deployment ModelsIntroduction of Cloud Computing Introduction Cloud computing compared with Virtualization, Benefits of cloud computing Client server model	06-07-2020 & 10/08/2020	08-08-2020 & 25/08/2020	20 12	Seminars	Client server model

2		UNIT-II: Cloud Service Models with Architectures 3 Cloud Service Models 3.1 Various Cloud Services 3.2 PaaS I. Model II. Architecture III. Platform as a service: Google App Engine 3.3 SaaS I. Model II. Architecture III. Software as a service: Microsoft Azure 3.4 IaaS I. Model II. Architecture III. Infrastructure as a service: Amazon EC2	26-08-2020 & 15/09/2020	14-09-2020 & 30/09/2020	13 13	Network Components	Oral Exam

							Assignments through Google class room
3		UNIT – III Cloud Deployment Techniques and TechnologiesCloud Deployment Techniques Factors for Successful Cloud Deployment Network Requirements Potential Problem areas in a cloud Network and their Mitigation 4.5 Cloud Network Topologies Cloud Technologies: Web Services, AJAX and MASHUPs web services: SOAP and REST AJAX: asynchronous 'rich' interfaces Mashups: User interface services	01-10-2020 & 10/10/2020	17-10-2020 & 03/10/2020	13 10	Seminars	Lesson Assignments
4		UNIT – IV Mobile Cloud Computing Security Challenges 13Hrs Mobile Cloud Computing Introduction				Practical Approach	Comparison of Cloud Models

		Benefits of MCC Architecture of MCC challenges in mobile and at cloud shield Cloud and Mobile Cloud Security Challenges Benefits for Security as a service Issues with Security as a Service Cloud Security Architecture Mobile Cloud Security Architecture	02-11-2020	12-11-2020	08		

Rajarshi Shahu Mahavidyalaya (Autonomous), Latur
Faculty of Information Technology

Structured Work Plan for Teaching

Academic Year (2020 - 2021)

(24-Feb-2021 TO 15-May-2021)

1. **Details of Classes to be taught**

Sr. No.	Class	Name of Asst. Prof.	Course Title	Course Code
1	B.Sc.(C.S.) S.Y. IVSem	Dr.S.V.Patil	Multimedia Using Flash	U-MUF-484
2	BCA T.Y. VI-Sem		Digital Image Processing Using Matlab	U-DIP-716

2. Summary of Lesson Plan

Name of Teacher: Dr. S.V.Patil   **Class   : B.Sc. (C.S.) S.Y. IV Sem**

Teaching Hours: 68

Sr. No.	Course Title and Course Code	Unit and Chapter to be covered	Date FROM	Date TO	No. of Lectures	Academic activities to be organized	No. of Test / Assignment with topic
1	Multimedia Using Flash **U-MUF-484**	Unit I: 1.1. The Flash stage 1.2. Stage Settings 1.3. Creating a new Flash file 1.4. The various import formats 1.5. Timeline- Play head/Frames/Key Frames/ Blank frames 1.6. Menus, Toolbox and Properties 1.7. Color Swatches and Color Mixer 1.8. Rulers, Guides, Grids and Snappings	24-02-2021	05-03-2021	09	Revision	Task to Study Flash Software
			06-03-2021	16-03-2021	07	Group discussions	Seminars
2		Unit II: 2. **Introduction** 2.1. CDROM and Multimedia Highway					

		2.2. Applications of Multimedia 2.3. Stages of Multimedia Project 3. **Macintosh and Windows Productions Platforms** 3.1. Macintosh Platform 3.2. Windows Platform 3.3. Connections- SCSI and IDE 3.4. Memory and Storage devices 3.5. Input and Output Devices	17-03-2021	29-03-2021	11	Seminars	Comparison of OS
			30-03-2021	09-04-2021	10	Group Discussions	
3		Unit III: 4. **Basic Software Tools** 4.1. Text editing and word Processing tools 4.2. Painting and drawing tools 4.3. Image Editing Tools 4.4. Sound Editing Tools 4.5. Font Editing and designing tools 4.6. Hypermedia and Hypertext 4.7. Making Still Images : BITMAPS , Vector Drawing 4.8. Colors, Image file formats	10-04-2021	21-04-2021	10	Group Discussions	Assignment to design same Page in different softwares .
			22-04-2021	29-04-2021	07		

| 4 | | Unit IV:

5. **Animation and Video**
5.1. Principal of Animation
5.2. Making animation that work: Rolling Ball, Bouncing ball
5.3. Using Video
5.4. Broadcast Video Standards
5.5. Recording Formats | 30-04-2021 | 08-05-2021 | 08 | Group discussions and seminars | Practical approach |
| 5 | | | 10-05-2021 | 15-05-2021 | 06 | Class Seminars | Test Exam |

2. Summary of Lesson Plan

Name of Teacher: Dr. S.V.Patil

Class   :BCA-VI Sem

Teaching Hours: 68

Sr. No.	Course Title and Course Code	Unit and Chapter to be covered	Date FROM	Date TO	No. of Lectures	Academic activities to be organized	No. of Test / Assignment with topic
1	Digital Image Processing Using Matlab U-DIP-716	UNIT- I Introduction to DIP 12 Hrs What is digital image processing? Example fields of digital image processing, Fundamental steps in digital image processing, Components of image processing system. Elements of visual perception, Lights and electromagnetic spectrum, Image sensing and acquisition, Image sampling and quantization, Some basic relationship between pixels.	24-02-2021	05-03-2021	09	Revision on Image Processing.	Review of Photoshop
			06-03-2021	16-03-2021	07	Group discussions	Seminars
2		Unit –II Digital Image Representation using Matlab 15 Hrs Digital Image Representation: Coordinate Conventions, Images					

		as Matrices Reading Images, Displaying Images, Writing Images, Data Classes, Image Types: Intensity Images, Binary Images, Converting between Data Classes and Image Types: Converting between Data Classes, Converting between Image Classes and Types, Array Indexing: Vector Indexing, Matrix Indexing, Selecting Array Dimensions, Some Important Standard Arrays. Introduction to M-Function Programming: M-Files, Operators, Flow Control, Code Optimization, Interactive I/O	17-03-2021 30-03-2021	29-03-2021 09-04-2021	11 10	Seminars Group Discussions	Task to gather information on Image processing softwares
3		Unit- III Intensity transformation using Matlab 12 Hrs Intensity Transformation Functions: Function imadjust, Logarithmic and ContrastStretching Transformations, Some Utility M-Functions for Intensity Transformations Histogram Processing and Function Plotting: Generating and Plotting	10-04-2021 22-04-2021	21-04-2021 29-04-2021	10 07	Designing the Software Electricity Bill Management. Group Discussions	Assignment to design sample page Test Exam

		Image Histograms, Histogram Equalization, Histogram Matching (Specification) Spatial Filtering: Linear Spatial Filtering, Nonlinear Spatial Filtering					
4		Unit –IV Frequency Domain Processing and Histogram Processing 14 Hrs Frequency Domain Processing: The 2-D Discrete Fourier Transform, Computing and Visualizing the 2-D DFT in MATLAB, Filtering in the Frequency Domain: Fundamental Concepts, Basic Steps in DFT Filtering, A Model of the Image Degradation/Restoration Process, Color Image Representation in MATLAB: RGB Images, Indexed Images IPT Functions for Manipulating RGB and Indexed Images.	30-04-2021 10-05-2021	08-05-2021 15-05-2021	08 06	Group discussions Class Seminars	Assignments to edit Image Oral Exam