



DEPARTMENT OF COMPUTER SCIENCE, MDKG COLLEGE, DIBRUGARH.
CLASS ROUTINE FOR B.Sc. 1st, 3th SEMESTER (DEPARTMENT OF COMPUTER SCIENCE) FOR 2024

Day	Semester	9-10	10-11	11-12	12-1	1-2	2-3	3-4	4-5
MONDAY	I	GECCSC1(T) CONFERENCE ROOM-NAS		MINCSC1(T) ICT LAB -RS	-			ADD-ON(RS)(T) CONFERENCE ROOM	
	III					MINCSC3(P) ICT LAB NAS	MINCSC3(P) ICT LAB NAS		
TUESDAY	I				MINCSC1(P) ICT LAB -(RS)	MINCSC1(P) ICT LAB -(RS)		ADD-ON(P)(RS) ICT LAB	
	III						GECCSC3(T) ICT LAB RS		
WEDNESDAY	I				GECCSC1(P) ICT LAB (RS)	GECCSC1(P) ICT LAB (RS)		MINCSC1(T) ICT LAB (NAS)	MINCSC1(T) REMIDIAL CLASS ICT LAB (NAS)
	III	MINCSC3(T) ICT LAB NAS	GECCSC3(P) ICT LAB RS	GECCSC3(P) ICT LAB RS				MINCSC3(T) CONFERENCE ROOM RS	
THURSDAY	I			MINCSC1(P) ICT LAB NAS	MINCSC1(P) ICT LAB NAS	GECCSC1(P) ICT LAB NAS	GECCSC1(P) ICT LAB NAS		
	III					MINCSC3(P) RS (ICT-LAB)	MINCSC3(P) RS (ICT-LAB)	GECCSC3(T) REMIDIAL CLASS CONFERENCE	



DEPARTMENT OF COMPUTER SCIENCE, MDKG COLLEGE, DIBRUGARH.

								ROOM NAS	
FRIDAY	I			GECCSC1(T) CONFERENCE ROOM RS					
	III	MINCSC3(T) ICT LAB NAS			GECCSC3(P) ICT LAB NAS	GECCSC3(P) ICT LAB NAS		VAC5(ROOMNO -201)/ICT-LAB) RS,NAS	
SATURDAY	I		MINCSC1(T) REMIDIAL CLASS ICT LAB RS		GECCSC1(T) ICT LAB(RS) REMIDIAL CLASS				
	III								

P: PRACTICAL T: THEORY

MINCSC1: CYBER SECURITY ; STUDENT'S STRENGTH: UNPREDICTABLE

GECCSC1: OFFICE AUTOMATION STUDENT'S STRENGTH: UNPREDICTABLE

MINCSC3: CLOUD COMPUTING STUDENT'S STRENGTH: 9

GECCSC 3: BASICS OF PHOTOSHOP STUDENT'S STRENGTH: 27



DEPARTMENT OF COMPUTER SCIENCE, MDKG COLLEGE, DIBRUGARH.

DISTRIBUTION OF CLASSES:

ABBREVIATION	NAME OF THE TEACHER	NO. OF CLASSES PAPER WISE	NO. OF CLASSES PER WEEK
NAS	Dr. NIAZ ALI SHAH	GECCSC1=3 (T=1,P=2)	3+4+3+4+2=16
		MINCSC1=4(T=2P=2)	
		GECCSC3=3(T=1,P=2)	
		MINCSC3=4(T=2,P=2)	
		VAC5=2(T/P=2)	
RS	RIMPI SARMA	GECCSC1=4 (T=2,P=2)	4+4+3+3+4+2=20
		MINCSC1=4(T=2P=2)	
		GECCSC3=3(T=1,P=2)	
		MINCSC3=3(T=1,P=2)	
		ADDON COURSE=4(T=2,P=2)	
		VAC5=2(T/P=2)	



DEPARTMENT OF COMPUTER SCIENCE, MDKG COLLEGE, DIBRUGARH.

B.Sc. IN COMPUTER SCIENCE PROGRAMME(NEP)DETAILED SYLLABUS OF 1ST SEMESTER

Title of the Course : **Cyber Security**
Course Code : **MINCSC1**
Nature of the Course : **Minor**
Total Credits : **04**
Distribution of Marks : **80 (End Sem)(60T+20P) + 20 (In-Sem)**

UNITS	CONTENTS	AT	L	T	P	Total Hours
1 (Marks) 12 TH	Introduction to Cyber security: Defining Cyberspace and Overview of Computer and Web-technology, Architecture of cyberspace, Communication and web technology, Internet, World wide web, Advent of internet, Internet infrastructure for data transfer and governance, Internet society, Regulation of cyberspace, Concept of cyber security, Issues and challenges of cyber security.	RS	06	01	-	07
2 (Marks) 12 TH	Cyber crime and Cyber law : Classification of cyber crimes, Common cyber crimes- cyber crime targeting computers and mobiles, cyber crime against women and children, financial frauds,social engineering attacks, malware and ransomware attacks, zero day and zero click attacks, Cybercriminals modus-operandi , Reporting of cyber crimes, Remedial and mitigation measures, Legal perspective of cyber crime, IT Act 2000 and its amendments, Cyber crime and offences, Organisations dealing with Cyber crime and Cyber security in India.	RS	07	01	-	08
3 (Marks) 12 TH + 6 PR	Social Media Overview and Security: Introduction to Social networks. Types of Social media, Social media platforms, Social media monitoring, Hashtag, Viral content, Social media marketing, Social media privacy, Challenges, opportunities and pitfalls in online social network, Security issues related to social media, Flagging and reporting of inappropriate content, Laws regarding posting of inappropriate content, Best practices for the use of Social media.	NS	09	01	10	20
4 (Marks) 12 TH + 8 PR	Commerce and Digital Payments Definition of E- Commerce, Main components of E-Commerce, Elements of E-Commerce security, E- Commerce threats, E-Commerce security bestpractices, Introduction to digital payments, Components of digital payment and stake holders, Modes of digital payments- Banking Cards, Unified Payment Interface (UPI), e-Wallets, Unstructured Supplementary Service Data (USSD), Aadhar enabled payments, Digital payments related common frauds and preventive measures. RBI guidelines on digital payments and customer protection in unauthorised banking transactions. Relevant provisions of Payment Settlement Act,2007	NS	09	01	10	20



DEPARTMENT OF COMPUTER SCIENCE, MDKG COLLEGE, DIBRUGARH.

5 (Marks) 12 TH + 6 PR	Digital Devices Security, Tools and Technologies for Cyber Security: End Point device and Mobile phone security, Password policy, Security patch management, Data backup, Downloading and management of third party software, Device security policy, Cyber Security best practices, Significance of host firewall and Ant-virus, Management of host firewall and Anti-virus, Wi-Fi security, Configuration of basic security policy and permissions.	RS	09	01	10	20
	Total (in Hrs)		40	05	30	75

Where, *L: Lectures* *T: Tutorials* *P: Practicals (1P =2 Hours)*

Title of the Course : **OFFICE AUTOMATION**
TOOLS Course Code : **GECCSC1**
Nature of the Course : **GENERIC**
ELECTIVE Total Credits : **03**
Distribution of Marks : **80 (End Sem)(60T+20P) + 20 (In-Sem)**

UNITS	CONTENTS	AL	L	T	P	Total Hours
1 (Marks) 12 TH + 2 PR	Introduction to office suite: Installation and basics of MS office/Libre office	NS	04	01	04	09
2 (Marks) 12 TH + 2 PR	Word Processing: Working with Documents- Formatting Documents - Setting Page style- Creating Tables - Drawing- Tools - Printing Documents - Operating with MS Word documents.	NS	06	01	04	11
3 (Marks) 12 TH + 4 PR	Spreadsheets: Worksheets, Formatting data, creating charts and graphs, using basic formulas and functions, macros, Pivot Table	RS	05	01	06	12
4 (Marks) 12 TH + 4 PR	Presentation Tools: Adding and formatting text, pictures, graphic objects, including charts, objects, formatting slides, notes, hand-outs, slide shows, using transitions, animations	RS	05	01	06	12
5 (Marks) 12 TH + 8 PR	Cloud: Introduction to cloud office automation using office-365.	NS	05	01	10	16
	Total (in Hrs)		25	05	30	60

Where, *L: Lectures* *T: Tutorials* *P: Practicals(1P = 2 Hours)*



DEPARTMENT OF COMPUTER SCIENCE, MDKG COLLEGE, DIBRUGARH.

DETAILED SYLLABUS OF 3rd SEMESTER

Title of the Course : CLOUD COMPUTING

Course Code : MINCSC3

Nature of the Course: Minor

Total Credits : 04

Distribution of Mark: 80 (End Sem)(60T+20P) + 20 (In-Sem)

UNITS	CONTENTS	AT	L	T	P	Total Hours
1 (Marks) 12 TH	Cloud architecture and model Technologies for Network-Based System – System Models for Distributed and Cloud Computing – NIST Cloud Computing Reference Architecture. Cloud Models: - Characteristics – Cloud Services – Cloud models (IaaS, PaaS, SaaS) – Public vs Private Cloud – Cloud Solutions - Cloud ecosystem – Service management – Computing on demand.	RS	07	01	-	08
2 (Marks) 12 TH	Virtualization Basics of Virtualization - Types of Virtualization - Implementation Levels of Virtualization - Virtualization Structures - Tools and Mechanisms - Virtualization of CPU, Memory, I/O Devices - Virtual Clusters and Resource management – Virtualization for Data-center Automation.	RS	09	01	-	10
3 (Marks) 12 TH + 4 PR	Cloud infrastructure Architectural Design of Compute and Storage Clouds – Layered Cloud Architecture Development – Design Challenges - Inter Cloud Resource Management – Resource Provisioning and Platform Deployment – Global Exchange of Cloud Resources.	RS	08	01	10	19
4 (Marks) 12 TH + 8 PR	Programming model Parallel and Distributed Programming Paradigms – MapReduce , Twister and Iterative MapReduce – Hadoop Library from Apache – Mapping Applications - Programming Support - Google App Engine, Amazon AWS - Cloud Software Environments - Eucalyptus, Open Nebula, OpenStack, Aneka, CloudSim	NS	08	01	10	19
5 (Marks) 12 TH + 8 PR	Security in the cloud Security Overview – Cloud Security Challenges and Risks – Software-as-a-Service Security – Security Governance – Risk Management – Security Monitoring – Security Architecture Design – Data Security – Application Security – Virtual Machine Security - Identity Management and Access Control – Autonomic Security.	NS	08	01	10	19
	Total (in Hrs)		40	05	30	75

Where,

L: Lectures

T: Tutorials

P: Practicals (1P=2 Hours)



DEPARTMENT OF COMPUTER SCIENCE, MDKG COLLEGE, DIBRUGARH.

Title of the Course : **BASICS OF PHOTOSHOP**
Course Code : **GECCSC3**
Nature of the Course : **GENERIC**
ELECTIVE Total Credits : **03**
Distribution of Marks : **80 (End Sem)(60T+20P) + 20 (In-Sem)**

UNITS	CONTENTS	AT	L	T	P	Total Hours
1 (Marks) 12 TH + 2 PR	Introduction to Photoshop Interface and Tools: Introduction to the Photoshop interface, Understanding the different tools and palettes, Setting up a workspace.	RS	05	01	03	09
2 (Marks) 12 TH + 2 PR	Importing and Saving Files: Importing files into Photoshop, Understanding file formats and resolutions, Saving files in different formats.	RS	05	01	03	09
3 (Marks) 12 TH + 2 PR	Working with Layers, Masks, and Selections: Understanding layers and how to use them, Creating masks and selections, Understanding the difference between raster and vector graphics.	NS	05	01	03	09
4 (Marks) 12 TH + 6 PR	Basic Retouching Tools: Using the spot healing brush tool, Using the clone stamp tool, Understanding the patch tool.	NS	05	01	10	16
5 (Marks) 12 TH + 8 PR	Color Correction Tools and Text: Understanding color modes, Using the curves tool, Using the levels tool, Using the hue/saturation tool, Creating text layers, Formatting text, Applying effects to text.	RS	05	01	11	17
	Total (in Hrs)		25	05	30	60

Where,

L: Lectures

T: Tutorials

P: Practicals(1P=2 Hours)



DEPARTMENT OF COMPUTER SCIENCE, MDKG COLLEGE, DIBRUGARH.

Title of the Course : **DIGITAL FLUENCY**
Course Code : **VAC 3 (OPTION 1)**
Nature of the Course : **VALUE ADDED**
COURSE Total Credits : **02**
Distribution of Marks : **40 (End Sem) (30T+10P) + 20 (In-Sem)**

UNITS	CONTENTS	AT	L	T	P	Total Hours
1 (Marks) 8 TH + 2 PR	Introduction to Digital Fluency Understanding digital fluency, Importance of digital fluency, Skills required for digital fluency	NS	02	01	08	11
2 (Marks) 8 TH + 2 PR	Computer Basics Introduction to computer hardware and software, Basic computer components and their functions, Basics of Operating system and file management, Internet and Web Browsing.	RS	04	01	08	13
3 (Marks) 14 TH + 6 PR	Introduction to the Internet, email and Social Media Navigating the web, Search engines and search strategies, Creating and managing email accounts, Composing, and sending emails, Email etiquette and best practices, Introduction to social media platforms, Privacy, and security settings, Creating and managing social media accounts, Posting, and sharing content.	NS	06	01	14	21
	Total (in Hrs)		12	03	30	45

Where, **L: Lectures** **T: Tutorials** **P: Practicals (1P= 2 Hours)**
AL: ALLOTTED TEACHER
RS: RIMPI SARMA
NS: NIAZ ALI SHAH