G H RAISONI COLLEGE OF ENGINEERING & MANAGEMENT

(Approved by AICTE, New Delhi and Recognized by DTE, Maharashtra)
An Autonomous Institute Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
Accredited by NAAC with A+ Grade
Shraddha Park, B-37-39/1, MIDC, Hingna-Wadi Link Road, Nagpur-440016 (INDIA)
Phone Nos.: 07104-234501 Fax: +91-07104-234501
Email: - ghrietn@raisoni.net **Web: -** www.ghrietn.raisoni.net

Department of Computer Science & Engineering

(Cyber Security)

Semester:- 3rd Semester

Second Year Syllabus

NEP-2020

G H RAISONI COLLEGE OF ENGINEERING & MANAGEMENT

(Approved by AICTE, New Delhi and Recognized by DTE, Maharashtra)
An Autonomous Institute Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
Accredited by NAAC with A+ Grade
Shraddha Park, B-37-39/1, MIDC, Hingna-Wadi Link Road, Nagpur-440016 (INDIA)
Phone Nos.: 07104-234501 Fax: +91-07104-234501
Email: - ghrietn@raisoni.net **Web: -** www.ghrietn.raisoni.net

B.Tech. Computer Science and Engineering (Cyber Security)

Course Code	Name of Course	Course Category	Teaching Scheme				Credits	Evaluation Scheme					
								Theory			Practical		Total Marks
			L	T	P	Total Hours		TAE	CAE	ESE	INT	EXT	
SEMESTER-III													
23BTSHL201CY	Discrete Mathematics and Graph Theory	PCC2	3	1		4	4	10	15	50	-	-	75
23BTCSL201CY	Data Structures and Algorithms	PCC3	3	-	-	3	4	10	15	50	-	-	75
23BTCSP201CY	Data Structures and Algorithms	PCC3	-	-	2	2		-	-	-	25	25	50
23BTXXXX	Multi-Disciplinary	MD1	2			2	2	10	15	50			75
23BTXXXX	Open elective -I	OE1	4			4	4	10	15	50			75
23BTMBL201CY	Engineering Economics and Industrial Management	EEMC1	2			2	2	10	15	50			75
23BTHUL20X	Humanities Elective	VEC1	2			2	2	10	15	50			75
23BTCYP202	Project –I (NGO)	CEP			2	2	2				50		50
TOTAL			**16**	**1**	**4**	**21**	**20**	**60**	**90**	**300**	**75**	**25**	**550**

For Multi-Disciplinary from others:

CSE:- Computer Architecture (23BTCSL204)
AI:- Knowledge Representation ……
DS:-Fundamental of Data Analytics

Open Elective – I :- Web Cloud Computing Application : 23BTCYL201

MD1: Cyber Law: 23BTCYL203

SEMESTER-III

Course Title: **Discrete Mathematics and Graph Theory**										
Semester	III	Teaching Scheme				Evaluation Scheme				
						Theory			Practical	
Term	ODD	Th	Tu	Pr	Credits	TAE	CAE	ESE	INT	EXT
Course Category	BS	3	1	--	4	10	15	50	--	--
Course Code	23BTSHL201									
Teaching Mode	Offline	4			Total	75			--	
Duration of ESE	2.5 hrs					75				

Course Objectives	This course introduces concepts of set theory and graph theory and its application to computer science.
	It also skills to analyze various kinds of sets and groups of objects meeting the criteria.
	It also introduces combinatorial structures and applies algebraic techniques to combinatorial problems.
Course Outcomes	**CO1**: Know grouping of objects and operation, relation, ordering of objects, concepts of Groups.
	CO2: Classify the algebraic structure for a given mathematical problem.
	CO3: Apply the concept of Boolean algebra in computer science engineering.
	CO4: Solve problems using basic graph theory.
	CO5: Develop algebraic technique to solve combinatorial problems using combinatorial structure.

Mapping of Course Outcomes with Program Outcomes and Program Specific Outcomes:

ourse Outcomes	Program Outcomes and Program Specific Outcomes														
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
CO1	**3**	**3**										**3**			
CO2	**3**	**3**										**3**			
CO3	**3**	**3**										**3**			
CO4	**3**	**3**										**3**			
CO5	**3**	**3**										**3**			
CO6	**3**	**3**										**3**			

Course Contents:

Unit	Contents	Hours
I	**Set Theory** Operations on sets, Laws of algebra of sets, Representation of sets on computer in terms of 0's & 1's. Partition & covering of a set, ordered pair, Product set, Relation–Different types of relations, Graph of relation, Matrix of relation, Transitive closure of relation, Properties of relations, Compatible relation. Functions, Partial ordering & partially ordered set, Hasse diagram of Poset, Totally ordered set, Peano axioms & Mathematical Induction.	10
II	**Group** Algebra or Algebraic systems like semigroup, monoid and examples. Homomorphism, Isomorphism of semigroup & monoid. Groups, properties of algebraic groups. Permutations groups, Subgroups, Cosets, Lagrange's theorem, properties of cyclic groups, generator of group, kernel of Homorphism, quotient group, Rings, types of rings, Fields, subring, Integral domain.	8
III	**Lattices and Boolean algebra** Lattice as Poset & as algebraic system, Types of lattices, Hasse diagrams, Sublattice, direct product of Lattices, Lattice Homomorphism, complement of elements of lattices, Various lattices, composition tables, Lattice, Boolean algebra; Boolean Expressions, Equivalence of Boolean Expression by tables, Simplification of circuit & equivalent circuit by truth tables.	8
IV	**Graph Theory** Graphs and its types, Sub graph, Quotient graph, Euler path, complete path, indegree, outdegree, reachability, cycle, matrix representation of graph. Transitive closure of graph, Adjacency matrix, Trees, Venn diagram, Representation of trees, binary trees, spanning trees, Prim's algorithm.	8
V	**Combinatorics** Counting Theorem and application, multiplication principle of counting, Permutation & Combination with examples, Definition of generating functions and it's examples, proof of simple combinatorial identities. Recursive relations: definitions & examples, explicitly formula for sequence, back tracking to find explicit formula of sequence, Solving recurrence relations. The pigeon hole principle & extended pigeon hole principle and application of pigeon hole principle in solving simple problems.	8

Text Books	1.	Discrete Mathematical structure with application to computer science by Trembley & Manohar (Mc. Graw Hill)
	2.	Discrete Mathematical Structure by Kolmann , Busby & Ross (PHI)
	3.	Discrete mathematics by Lipschutz & Lipson , Schaum's outline, TMH
Reference Books	1.	Discrete Mathematics by Liu
	2.	Discrete Mathematics by John Truss (Addison Wesley, 2000)
	3.	Foundations of Discrete Mathematical by K. D. Joshi (Willey Eastern).

Course Title: **Data Structure and Algorithms**										
Semester	III	Teaching Scheme				Evaluation Scheme				
						Theory			Practical	
Term	ODD	Th	Tu	Pr	Credits	TAE	CAE	ESE	INT	EXT
Course Category	C	3	--	2	4	10	15	50	25	25
Course Code	23BTCSL201/ 23BTCSP201									
Teaching Mode	Online	5			Total	75			50	
Duration of ESE						125				

Course Objectives	This course introduces basic idea of data structure while making aware of methods and structure used to organize large amount of data.
	It's also aimed at developing skill to implement methods to solve specific problems using basic data structures.
	The course also provides career opportunities in design of data, implementation of data, technique to sort and searching the data.
Course Outcomes	CO1: Analyze various techniques for searching, Sorting and Hashing.
	CO2: Illustrate linear arrays and linked lists, including operations such as insertion, deletion, traversal, sorting, and searching.
	CO3: Demonstrate the array and linked representations of stacks and queues and their applications.
	CO4: Apply trees as non-linear data structure to find solution for given engineering applications.
	CO5: Understand the basics of Graphs as non-linear data structures.

Mapping of Course Outcomes with Program Outcomes and Program Specific Outcomes:

Course Outcomes	Program Outcomes and Program Specific Outcomes													
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2
CO1		3	2	3									1	
CO2		2	3	3									2	
CO3		3	3	3									2	1
CO4		3	3	3									3	2
CO5		3	3	2									3	1

Course Contents:

Unit	Contents	Hours
I	Introduction to Algorithms, Searching and Sorting Introduction to Algorithms, Common operations on data structures, Types of data structures, Abstract Data Type Time and Space Complexity, Step Count Method, Asymptotic Notations. Searching: Linear Search, Binary Search Sorting: Bubble sort, Selection Sort, Merge-Sort, Shell Sort, Radix Sort, Introduction to Hashing	9
II	Arrays and Linked Lists Arrays: Introduction, Linear Arrays, Arrays as ADT, Representation of Linear array in Memory, Traversing Linear Arrays, Insertion and deletion in arrays. Linked List: Introduction, Representation of Linked Lists in Memory, Traversing a Linked List, Searching a Linked List, Memory Allocation; Garbage Collection, Types of linked lists, Insertion and Deletion in Singly Linked List, Insertion and Deletion in Doubly Linked List, Insertion and Deletion in Circular Linked List	9
III	Stacks, Queue and Recursion Stacks-Introduction to Stacks ,Array Representation of Stacks ,Linked Representation of Stacks, Stack as ADT, Various operations on stacks using arrays and linked lists, Application of Stacks : Polish Notations, Recursion, Towers of Hanoi Queue: Introduction to Queues, Array Representation of Queues, Linked Representation of Queues, Queues as ADT, Circular Queues, Deques, Priority Queues, Applications of Queues	9
IV	Trees and Binary Trees General and Binary Trees, Representation of binary tree in memory, Operations on Binary Trees, Binary Tree Traversals, Threaded Binary Trees, Binary Search Trees ,various operations in Binary Search Trees, AVL Search Trees, Insertion in an AVL Search Tree, Deletion in an AVL Search Tree, m-way Search Trees, B-Trees-Insertion and deletion in B-Tree, B+Trees-Insertion and deletion in B+Tree	10
V	Graphs and their Applications: Introduction, Graph Theory Terminology, Representation of Graphs, Operations on Graphs, Traversing a Graph, Posets , Topological Sorting, Spanning Trees, Minimum Spanning Trees	8

Text Books	1.	AVAho, J Hopcroft, JD Ullman, Data Structures and Algorithms, Addison-Wesley, 1983.
	2.	THCormen, CF Leiserson, RL Rivest, C Stein, Introduction to Algorithms, 3rd Ed., MIT Press, 2009.
	3.	Sahni, S., "Data Structures, Algorithms, and Applications in C++", WCB/McGraw-Hill.
E--Books	1.	https://apps2.mdp.ac.id/perpustakaan/ebook/Karya%20Umum/Dsa.pdf
Reference Books	1.	Data Structures & Algorithms, 1e, Alfred V.Aho, Jeffery D. Ullman , Person.

	2.	MT Goodrich, R Tamassia, DM Mount, Data Structures and Algorithms in Java, 5th Ed., Wiley, 2010. (Equivalent book in C also exists.)
	3.	Wirth, N., "Algorithms and Data Structures", Prentice-Hall of India.
On-line TL Material	1.	https://nptel.ac.in/courses/106/102/106102064/
	2.	http://cse01-iiith.vlabs.ac.in/
	3.	https://ds2-iiith.vlabs.ac.in/data-structures-2/

Open elective –I:- Web Cloud Computing Application(From Cyber Board)

Course Title: Web Cloud Computing Application_NEP-2020										
Semester	III	Teaching Scheme				Evaluation Scheme				
Term	ODD					Theory			Practical	
Course Category	Open Elective-1	Th	Tu	Pr	Credits	TAE	CAE	ESE	Int	Ext
Course Code	23BTCYL201	4 Hrs	NA	NA	4	10	15	50	-	-
Teaching Mode	Offline									
Duration of ESE	2 Hrs	2 Hrs			Total	75			-	
						75				

Course Objectives	To study basics of cloud computing using force.com platform.
	To learn various aspects of sales force, like development, administration, Apex coding and reporting etc.
	To give students opportunities to build their carrier in cloud computing using Salesforce cloud Development platform.
Course Outcomes	Up on successful completion of this course, student will be able to:
	CO1: Understand fundamental concepts and technologies of cloud computing using Salesforce
	CO2: Apply Salesforce development skills to develop custom application on Salesforce cloud
	CO3: To handle responsibility of Salesforce Administrator
	CO4: To develop cloud application using visual force
	CO5: To implement custom business logic in Salesforce application using Apex.

Mapping of Course Outcomes with Program Outcomes and Program Specific Outcomes:

Course Outcome	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
CO1	--	--	3	--	--	--	--	--	--	--	--	--	--	--
CO2	--	--	--	3	--	--	--	--	--	--	--	--	--	--
CO3	--	--	3	--	--	--	--	--	--	--	--	--	--	--
CO4	--	--	--	--	3	--	--	--	--	--	--	--	--	--
CO5	--	2	--	--	--	--	--	--	--	--	--	--	--	--

Course Contents:

Unit	Contents	Hours
I	**Introduction :** Basics of Cloud computing using Salesforce, Salesforce - Home, Overview, Environment - Sales Cloud, Architecture, Service Cloud, Navigating Setup, Standard and Custom Objects, Master Detail , Schema Builder, Lookup Relationship	5
II	**Organization and User Setup, Security and Access:** Control Access Org, Control Access Objects, Control Access Fields, Control Access Records, Create a Role Hierarchy, Define Sharing Rules.	5
III	**Business logic & Process Automation**: Describe the function and use case of: Record type, Formula fields, Of roll-up summary fields, Validation rules, Approval process, Workflow, visual workflow and Lightning process builder: Working with Chatter, Chatter features, Chatter use cases Analyze data using reports and dashboards, Report type and dashboard, Identify the features available when creating a report	5
IV	**Visualforce:** Visualforce Pages, Variables & Formulas, Standard Controllers, Records, Fields & Tables, Using Forms, List Controllers, Static Resources. Action Function, Action Status, Action Support, Custom Controller and Extension	5
V	**Apex:** Introduction , Environment, data types, array , string , decision making , loops , collection, classes, objects, methods, DML, SOSL,SOQL	5

Text Books	1. 2.	Salesforce.com For Dummies, 7th Edition by Liz Kho and Jon Paz Salesforce Advanced Administrator Certification by Enrico Moru
EBooks	1. 2.	https://trailhead.salesforce.com https://success.salesforce.com
Reference Books	1.	Salesforce Handbook by Wes Nolte and Jeff Douglas
	2.	Learning Salesforce Lightning Application Development: buy Mohit Shrivastava

Course Title: Cyber Laws –NEP_2020										
Semester	III	Teaching Scheme				Evaluation Scheme				
						Theory			Practical	
Term	ODD	Th	Tu	Pr	Credits	TAE	CAE	ESE	INT	EXT
Course Category	**MD1**	2	-	-	2	10	15	50	-	-
Course Code	23BTCYL203									
Teaching Mode	Offline	2			Total	75			-	
Duration ESE	2 Hr					75				

Course Objectives	To understand the basics need of Cyber laws
	To understand the ethical issues in Cyber Space
	To Understanding the initiatives taken by Government to incorporate Cyber Laws
Course Outcomes	Up on successful completion of this course, student will be able to: **CO1:** Understand cyberspace & legal issues in cyber society.
	CO2: Apply facets of India IT act.
	CO3: Analyze the intellectual property issues and development of the law in this regard.
	CO4: Design model for cyber-crime scenarios.
	CO5: Evaluate e-governance and digital evidence management

Mapping of Course Outcomes with Program Outcomes and Program Specific Outcomes:

Course Outcomes	Program Outcomes and Program Specific Outcomes														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
CO1	--	1	--	--	--	3	--	2	--	--	--	--	2	--	2
CO2	--	2	--	--	--	3	--	3	--	--	--	1	2	--	2
CO3	--	--	--	--	--	3	--	2	--	--	--	1	--	3	--
CO4	--	--	--	3	3	1	--	2	--	--	--	--	2	--	--
CO5	--	--	--	--	--	3	--	2	--	--	--	1	--	3	2

Course Contents:

Unit	Contents	Hours
I	**Introduction to Cyber law:** Evolution of computer Technology, emergence of cyber space. Cyber Jurisprudence, Need forITact – Cyberspace-Web space, Web hosting and web Development agreement, Legal and Technological Significance of domain Names, Internet as a tool for global access.	4
II	**The Indian IT Act**, Challenges to Indian Law and Cybercrime Scenario in India,Cybercrime and Punishment,. Network Service Providers Liability.	4
III	**DATA PROTECTION AND PRIVACY CONCERNS IN CYBERSPACE** Need to protect data in cyberspace Types of data Legal framework of data protection Data protection bill -an overview GDPR Concept of privacy Privacy concerns of cyberspace Constitutional framework of privacy Judicial interpretation of privacy in India	4
IV	**IP PROTECTION ISSUES IN CYBERSPACE:** Fundamental notions of copyright law Copyright issues in cyberspace Copyright infringement in digital environment- Software piracy, Linking, Framing, Caching, Meta Tagging, Legal protection of copyright in International Framework- WCT, WPPT, TRIPS. Indian legal protection of copyright in cyberspace & concept of DRM	4
V	**TRADEMARK ISSUES IN CYBERSPACE :**Meaning, Purpose and Kinds of Domain Name; Domain Name Vs Trademark ,Domain Name Registration, ICANN, Domain Name dispute and Related Laws , Different Form of Domain in Cyberspace, Judicial Approach.	4

Text Books	1 2 3	Apar Gupta, Commentary on Information Technology Act, 3rd Edition, Lexis Nexis, 2016. N S Nappinai, Technology Laws Decoded, Lexis Nexis, 2017 Vakul Sharma, Information Technology Law and Practice, Universal Law Publishing,2017 Rodney D Ryder & Nikhil Naren, Internet Law-Regulating Cyberspace and emerging Technologies, Bloomsbury ,2020
E--Books	1.	https://store.lexisnexis.in/cyber-laws
Reference Books	1. 2.	Pavan Duggal Cyber Law 3.0, Universal Law Publishing Company Private Limited, 2014 Edition. Anirudh Rastogi, Cyber Law, Lexis Nexis, 2014 .
Online TL Material	1.	https://youtu.be/KtuCsBlJXk8?feature=shared

Course Title: Applied life skills for Progressive Excellence										
Semester	III	Teaching Scheme				Evaluation Scheme				
						Theory			Practical	
Term	Odd	Th	Tu	Pr	Credits	TAE	CAE	ESE	INT	EXT
Course Category	H	2 Hrs.	--	--	2	10	15	50	--	--
Course Code										
Teaching Mode	Offline	2 Hrs.			Total	75			--	
Duration of ESE	2 Hrs.					75				

Course Objectives	To develop understanding of the fundamentals of life skills in students.
	To improve self-awareness and develop ways to face demands and challenges of life.
	To provide social-psychological and emotional foundations for the understanding of life skills.
	To foster social responsibility in students and enhance their positive and healthy behaviour.
	To carve the students with the opportunity to become active members of their community and has a lasting, positive impact on society at large.
Course Outcomes	**After the completion of the course, students shall be equipped with**
	CO1: The basic life skills towards self and Community as a whole and its varied approaches.
	CO2: The exposure to Self-awareness and face challenges based on life situations.
	CO3: A better understanding of life skills with social-psychological and emotional foundations.
	CO4: Social responsibility and exhibit enhancement in their positive and healthy behaviour.
	CO5: A deep sense of active membership of their community and a lasting, positive impact on

Mapping of Course Outcomes with Program Outcomes:

Course Outcome	Program Outcomes and Program Specific Outcomes														
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
CO1						**2**	**1**								
CO2								**1**	**2**			**2**			
CO3						**2**			**1**						
CO4						**1**	**1**	**2**		**1**					
CO5						**2**	**1**			**1**		**1**			

Course Contents:

Unit	Contents	Hours
1	**Life skills for Individuals:** Self- Realization and managing self in different social context- Self- Direction -Introspection- Attitudes & Behavior- Expectation Management and capability Approach- Justifications Vs. Reasons-Learn to Struggle and Bounce Back	**8**
2	**Life skills for Relationships:** Pro-social Behavior and Aggression- Handling Parenting- Jealousy Negotiation and Refusal Skills - Networking with a purpose-Balancing Negative Human Traits – Confess and Confront-Developing Positive relationships- Conflict Management	**8**
3	**Life Skills for Youth** Peer Pressure- Substance abuse and Alcoholism- Depression and consequence handling- Suicide and skills to avoid ideation-Preparedness for life disasters- Thinking Skills- Approach towards Practical Living	**7**
4	**Deconstructing Life skills as a whole:** Emotion and Coping: Identifying and Managing Emotions/ Techniques to deal with Emotions – Risk and Resilience- Perspective & Challenges- Stress Management- Decision Making- Accepting Criticism	**7**
5	**Life skills for Society:** Community Service Volunteering- Evading Social Exclusion-Human Trafficking- Women and Social inclusion-Service Learning- Responsible Citizenship	**5**

Text Books	1.	Life skills by Dr. Usha Jain and Dr. Rajiv Kumar Jain Publisher: Vayu Education of India in 2014
	2.	Life skills for Teenagers by Dr. Rinita Jain Publisher: Notion Press in 2014
Reference Books	1.	The first book of Life Skills by Larry James Publisher: Embassy Books in 2006
	2.	Fundamentals of Management and Life Skills by Sunil B Rao, Manjunatha M K , Buela D, Sheema Shaheen by Vision Book House in 2020
E-Learning	1.	Conover Resources- Life Skills

Sr. No.	Name of Activities
1	Group Discussions
2	Role Plays
3	Case Studies
4	Group Presentations

Course Title: Content Designing and Media Fundamentals										
Semester	III	Teaching Scheme				Evaluation Scheme				
						Theory			Practical	
Term	Odd	Th	Tu	Pr	Credits	TAE	CAE	ESE	INT	EXT
Course Category	H	2 Hrs.	--	--	2	10	15	50	--	--
Course Code										
Teaching Mode	Offline	2 Hrs.			Total	75				
Duration of ESE	2 Hrs.					75				

Course Objectives	To introduce students to the basics of Content Writing, the writing styles with relevant techniques
	To nourish their creative content writing with appropriate methods and practices
	To develop an overall understanding of digital marketing / online marketing platforms
	To demonstrate the emerging trends in digital marketing & the use of digital marketing tools.
	To introduce students to the Social Media related content writing and also to critically assess the choice of visual aids
Course Outcomes	**After the completion of the course, students shall be equipped with**
	CO1: The skills to implement the concepts of Content Writing in their writing styles
	CO2: The knowledge of various styles and techniques of writing and editing
	CO3: The understanding of various online platforms and exploring the digital marketing strategies
	CO4: The evolving styles in digital marketing and its associated tools
	CO5: The prime choice of visual aids and the in par content writing via Social Media

Mapping of Course Outcomes with Program Outcomes and Program Specific Outcomes:

Course Outcome	Program Outcomes and Program Specific Outcomes														
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
CO1									**1**	**2**					
CO2									**1**	**3**					
CO3										**2**	**1**				
CO4										**2**	**1**				
CO5									**1**	**2**	**1**				

Unit	Contents	Hours
1	**The Fundamentals of Content Writing:** The concept of content writing and its significance- Types of Content Writing- Principles and Process of Content Writing- Traits of a content writer- Print and Web content Writing	**8**
2	**The Content Writing Theory:** The Method: Brief/ Conceive/Research/Structure/Format – Editing & Proof reading- Writing styles- Corporate Communication: B2B/B2C/Press Release/Newsletters-Formal & Informal Language	**9**
3	**Basics of Digital Marketing:** Introduction to Digital Marketing- Website planning and Creation- Search Engine Optimisation- Social Media Marketing- Web Analytics- Web Marketing and Remarketing- Design Essentials	**8**
4	**Social Media and Visual Aids:** Basics of Social Media and its related content writing- Public relations- Infographics- Importance and relevance- Images and Screenshots- Videos, Memes, Gifs- Product demonstration	**5**
5	**Plagiarism in Content Writing:** What is Plagiarism- Importance of plagiarism free content writing- Plagiarism detection tools- Techniques to avoid plagiarism	**5**

Text Books	1.	Content Writing Step-By-Step by Joseph Robinson published in 2020-KDP Print US
	2.	Content Writing Handbook by Kounal Gupta published in 2021 – Henry Harvin
Reference Books	1.	The No-Fluff Guide to Writing Web Content by Alina Bradford Published in 2019- KDP Print US
	2.	Blog Writing: The Content Creation Blueprint by Anthony James Published in 2018- KDP Print US
E-Learning	1.	C IS FOR CONTENT by Fuzia

Sr. No.	Name of Activities
1	Content Brainstorming and Designing
2	Media and Visual Aids and Presentations
3	Writing Styles for Different Content Scenarios
4	Presentation on Free Digital platforms

Course Title: Cyber Ethics and Moral Responsibility										
Semester	III	Teaching Scheme				Evaluation Scheme				
						Theory			Practical	
Term	Odd	Th	Tu	Pr	Credits	TAE	CAE	ESE	INT	EXT
Course Category	H	2 Hrs.	--	--	2	10	15	50	--	--
Course Code										
Teaching Mode	Offline	2 Hrs.			Total	75				
Duration of ESE	2 Hrs.					75				

Course Objectives	Define cyber ethics and Morality with how classic ethical frameworks relate to it.
	Apply critical thought to a wide variety of topics pertaining to cyber ethics.
	Clearly articulate arguments both for and against various cyber ethical cases and bullying.
	Demonstrate the ability to include ethical considerations in their decision-making.
	Examine the scope of intellectual property issues and the available protection measures.
Course Outcomes	**After the completion of the course, students shall be equipped with**
	CO1: Cyber Ethics and Morality with its related frameworks.
	CO2: Critical thinking in a varied cyber ethics topics.
	CO3: Articulate arguments and arrive clarity for and against cyber ethical cases. Being vocal and firm on the concern of Cyber bullying.
	CO4: Decision making skills by considering ethical scenarios and its relevant consequences.
	CO5: A better understanding of intellectual property issues and the protective measures.

Mapping of Course Outcomes with Program Outcomes and Program Specific Outcomes:

Course Outcome	Program Outcomes and Program Specific Outcomes														
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
CO1						**1**		**3**	**1**			**1**			
CO2								**1**							
CO3								**3**		**2**					
CO4						**1**	**1**	**2**							
CO5							**1**		**1**						

Course Contents:

Unit	Contents	Hours
1	**Introduction to the course:** Introduction to Cyber Ethics and Morality- The need of Cyber Ethics in current era- Ethical Concepts and Theories- Netiquettes-Developing Ethical Analytical skills and Values	**7**
2	**Ethical Perspectives as a User:** Freedom of Expression-Criminal Liability vs. Accountability- Code of Conduct-Moral Responsibility and Trust- Content Reliability- Decision Making and Reasoning Skills -Online Communities and its usages- Free speech and content control- Plagiarism and Email spam- Cyber-bullying	**12**
3	**Regulating Internet Privacy:** Personal Information on the Internet- Consumer Privacy on the Internet-Professional Ethics- Surveillance and Cyberspace – The Digital Divide-Emerging and converging technologies- Regulating commerce in cyberspace	**7**
4	**Intellectual Property:** Respecting Intellectual Property online- The domain of intellectual Property-Justifications and critiques- Trends of Intellectual property rights	**4**
5	**Cyber Ethics as a practice with case studies**	**5**

Text Books	1.	Cyber Ethics 4.0- Serving Humanity with values edited by Global Ethics.net in 2018
	2.	Raising Humans in a Digital World by Diana Graber- An Imprint of Hapercollins in 2019
Reference Books	1.	Cyber ethics: Social & Moral Issues in the Computer Age edited by Robert M Baird, Reagan Ramsower-Stuart E Rosenbaum in 2000
E-Learning	1.	Cyber Ethics for students and Youth-Education Beaureau- Online Site with Resources

Sr. No.	Name of Activities
1	Group Discussions on real time Scenarios
2	Role Plays
3	Case Studies
4	Group Presentations

Course Title: Theatrics- Theatre forms of India										
Semester	III	Teaching Scheme				Evaluation Scheme				
						Theory			Practical	
Term		Th	Tu	Pr	Credits	TAE	CAE	ESE	INT	EXT
Course Category	H	2 Hrs.	--	--	2	10	15	50	--	--
Course Code										
Teaching Mode	Offline	2 Hrs.			Total	75				
Duration of ESE	2 Hrs.					75				

Course Objectives	To introduce students with the intricate bond of theatre and Indian culture
	To simplify the concepts of theatrics with character as a central idea
	To introduce students with the concept of acting and techniques of character sketching
	To enable students with understanding of stage presence and methods to own it.
	To ensure students become aware and proud of creative evolution like theatre
Course Outcomes	**After the completion of the course, students shall be equipped with**
	CO1: Draw parallels between the Indian culture and theatre along with its historical importance.
	CO2: Deconstruct characters and elements of theatres to make meaningful observation.
	CO3: Differentiate between different acting styles.
	CO4: Practices and implement various acting techniques and methods.
	CO5: Understand stage and use it to exhibit impactful presence & performances.

Mapping of Course Outcomes with Program Outcomes and Program Specific Outcomes:

Course Outcome	Program Outcomes and Program Specific Outcomes														
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
CO1						**1**	**1**			**1**					
CO2						**1**	**1**		**1**						
CO3									**1**	**2**					
CO4									**1**	**2**					
CO5						**1**			**1**	**1**					

Course Contents:

Unit	Contents	Hours
1	**THEATRE FORMS OF INDIA** Origin and Development of Folk Theatre-Relationship between Rituals and folk theatre-Practical-Indian Folk forms: Jatra, Bhavai, Nautanki, Ramaleela, Kodiyattam, Bhagavath mela, Burra katha, Thamasha ,Yakshagana, Case Studies-On playwrights & plays	**5**
2	**ELEMENTS OF THEATRICS - I** Meaning of Speech, Symbol, Signal, Picture , Natural sounds- Deconstructing Animal behaviors representation- Body languages-Reading in different types-Narrations, News reading-Poetry recitation-Story telling- Voice projection-Voice modulation-Dialogues delivery	**6**
3	**ELEMENTS OF THEATRICS – II** Critical Analysis Practical-Color symbolism and character analysis-Make-up and lighting-Make-up and Costume - Difference between T.V Cinema and Theatre	**6**
4	**ACTING** Definition of Acting-Responsibilities of an actor tools of an actor character analysis-Observations aspects, Stage presence, concentration, conviction, confidence, energy and directionality-Stylized acting with reference to historical and mythological plays. Practical-Mono acting: different types of characters	**10**
5	**STAGE PRESENCE:** Completeness (gesture, posture, movement)-Interaction: Eye contact and actor, reaction with co-artists, relating to other elements of performance (set, property, costume, composition and lights) Case Studies on Stage Styles & evolution of theatre	**8**

Text Books	1.	Traditional Indian Theatre by Kapila Vatsyayan published by National Book Trust, 2005
	2.	An Actor Prepares by Konstantin Stanislavsky, published by Taylor & Francis, 1989
Reference Books	1.	The Empty Space: A Book About the Theatre: Deadly, Holy, Rough, Immediate by Peter Brook, Published by Scribner 1995
	2.	How Does the Show Go On: an Introduction to the Theater by Thomas Schumacher published by Disney Editions, 2007
E-Learning	1.	Back Stage- Resource platform for actors and theatre enthusiasts

Sr. No.	Name of Activities
1	Live Performance of Mythological Arts
2	Recorded performance of Mono Acting
3	Competition on best Acting