K.S.Rangasamy College of Arts and Science (Autonomous)

Tiruchengode - 637 215

Department of Computer Applications

Elective Courses

- · Principles of Information Security
- Client / Server Technology
- Software Engineering
- Social and Business Etiquette
- Artificial Intelligence
- Social Media Data Analytics

Encl.:

- 1. Copy of Scheme of Examination
- 2. Syllabus copy of courses highlighting the Elective along with course outcomes

3. Mapping of course to Elective

HoD – Computer Applications Dr. T. S. VENKATESWARAN,

M.Sc.,M.Phil.,M.B.A.,M.Phil.,Ph.D., Head, Department of BCA,

K. S. Rangasamy College of Arts and Science (Autonomous)

Tiruchengode - 637 215.

CONTROLLER OF EXAMINATIONS OF EXAMINATIONS

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MIT. M. PRASAD. SEC., M.S.A.,

Confirmiter of Estaminations
K.S. Rengasany College of Arte & Science (Autonomous)
Tiruchengode - 637 215, Tamilnadu, India,

SCHEME OF EXAMINATION

		Hrs. of	Exam	N	Iax Ma	irks		
Course Code	Course	Course Instructi Durat on (Hrs		CA	CE Total		Credi	
First Semester					4 (15)			
	P	art I				15 (1 mg)		
18UTALB101/ 18UHILB101/ 18UFRLB101	Tamil-I/ Hindi-I/ French-I	5	3	25	75	100	3	
	Pa	rt II						
18UENLB101	General English I	5	3	25	75	100	3	
	Pa	rt III						
18UCAM101	Core I : Problem Solving Techniques	4	3	25	75	100	4	
18UCAM102	Core II: Programming in C	4	3	25	75	100	4	
18UMACAA101	Allied I: Mathematics for Computer Applications	4	3	25	75	100	4	
18UCAMP101	Core Practical I: Office Package	3	-3	40	60	100	2	
18UCAMP102	Core Practical II: Programming in C	3	3	40	60	100	2	
		rt IV						
18UVE101	Value Education I: Yoga	2	3	25	75	100	2	
		30				800	24	
Second Semester				A STATE	ara war. Yan			
	P	art I						
18UTALB201/ 18UHILB201/ 18UFRLB201	Tamil-II/ Hindi-II/ French-II	5	3	25	75	100	3	
Edward a finite	Pa	rt II		District (C)	STATE OF			
18UENLB201	General English II	5	3	25	75	100	3	
	Pa	rt III			vale 230			
18UCAM201	Core III: Object Oriented Programming with C++	4	3	25	75	100	4	
18UCAM202	Core IV: Computer Organization and Architecture	4	3	25	75	100	4	
18UMACAA201	Allied II: Scientific Computing Methods	4	3	25	75	100	4	



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18UCAMP201	Core Practical III: Scientific Computing using C++	3	3	40	60	100	2
18UCAMP202	Core Practical IV: Designing Tools	3	3	40	60	100	2
	Part	IV					
18UVE201	Value Education II: Environmental Studies	2	3	25	<i>7</i> 5	100	2
		30				800	24
Third Semester		12.12.					
Timu Semester	Part	NTTT .					in Take
And the second s	PROCESSES AND RESIDENCE AND RE	111					
18UCAM301	Core V: Programming in Java	4	3	25	75	100	4
18UCAM302	Core VI: Data Structures	5	3.	25	75	100	4
18UCAM303	Core VII: Web Designing	4	3	25	75	100	4
18UCCCAA301	Allied III: Principles of Accountancy	4	3	25	75	100	4
18UCAMP301	Core Practical V: Programming in Java	3	3	40	60	100	2
18UCCCAAP301	Allied Practical I: Accounting Package	3	3	40	60	100	2
	Part	IV					
18UCASBP301	SBC Practical I: Web Designing Using HTML , CSS	2	3	40	60	100	2
18UCSNM301	NMECI	2	3	25	75	100	2
	Non C	redit				that make	
18ULS301	Career Competency Skills I	1			10-0	i est	u ship i
18UCAAC301 / 18UCAAC302	Add-on Course I	2	3		100	100	
233 1 1 1 2 1 2 1		30			N Territ	900	24
Fourth Semester		ar ar	The Maria				
	Part	Ш					
18UCAM401	Core VIII: Relational Database Management System	4	3	25	75	100	4
18UCAM402	Core IX: Operating System Concepts	5	3	25	75	100	4



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Controller of Examinations
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KS, Rangasany College of Ans & Science (Autonomous) Tiruchangodo - 537 215, Tamilhadu, India,

18UCAEL401/ 18UCAEL402/ 18UCAEL403	Elective I	4	3	25	75	100	3
18UCCCAA401	Allied IV: Cost and Management Accounting	4	3	25	75	100	4
18UCAMP401	Core Practical VI: RDBMS Package	3	3	40	60	100	2
18UCAMP402 Core Practical VII: Linux Programming		3	3	40	60	100	2
	Part I	V					
18UCASBP401	SBC Practical II: Data Structure using C	2	3	40	60	100	2
18UCSNM401 NMEC II		2	3	25	75	100	2
	No. Cred	and the second second second					
18ULS401	Career Competency Skills II	1	-		•	•	-
18UCAAC401 / 18UCAAC402	Add-on Course II	2	3		100	100	
		30		5 (S)		900	23
Fifth Semester							
	Part	Ш					
18UCAM501	Core X: Web Application Development	5	3	25	75	100	4
18UCAM502	Core XI: Computer Networks	5	3	25	75	100	4
18UCAM503	Core XII: Cloud Computing	5	3	25	75	100	4
18UCAEL501/ 18UCAEL502/ 18UCAEL503/	Elective II	4	3	25	75	100	3
18UCAMP501	Core Practical VIII: Web Application Development	3	3	40	60	100	2
18UCAMP502	Core Practical IX: Computer Networks Lab	3	3	40	60	100	2
	The second secon	CONTRACTOR OF THE PARTY OF THE	Contract of the Contract	AND DESCRIPTION OF THE PARTY OF	CONTRACTOR STATE	pellocation distribution in the second	72-10 G-510



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8UCASBCP501	SBC Practical III: Web Services Using Python	2	3	40	60	100	2
	Part	V		ı	Γ		
18UCAE501	Extension Activity		-	-	-		2
	Non Cre	edit				2 201	242
18ULS501	Career Competency Skills III	1		-			
8UCAPR601	Project & viva-voce	2					
		30				700	23
Sixth Semester							O ha Kirindo (Mide)
	Part	Ш					
18UCAM601	Core XIII: Big Data Analytics	5	3	25	75	100	4
18UCAM602	Core XIV: Mobile Technology (fifth unit as self study)	5	3	-25	75	100	4
18UCAM603	Core XV: E-Commerce	4	3	25	75	100	3
18UCAM604	Core XVI: Internet of Things	5	3	25	75	100	3
18UCAMP601	Core Practical X:R Programming	4	3	40	60	100	2
18UCAPR601	Project & Viva-Voce	4	3	40	60	100	4
	Part	IV	the fact the				
18UCASBCP602	SBC Practical IV: Mobile Application Development	2	3	40	60	100	2
	Non C	redit					
18ULS601	Career Competency Skills IV	1				-	
		30		Way S		700	22
		2 17 1		Gran	d Tota	1 4800	14

 Students have to undergo an Advanced Learner Course during the Second year of their course of study.

 Project hours can be divided into two such as 1. Problem presentation in the Class room 2. Problem implementation in the Lab



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ELECTIVE I

(Student shall select any one of the following subject as Elective in fourth semester)

S.No	Subject Code	Subject
1.	18UCAEL401	Principles of information security
2.	18UCAEL402	Client Server technology
3.	18UCAEL403	Software Engineering

ELECTIVE II

(Student shall select any one of the following subject as Elective in Fifth semester)

S.No	Subject Code	Subject
1.	18UCAEL501	Social and Business Etiquette
2.	18UCAEL502	Artificial Intelligence
3.	18UCAEL503	Social Media Data Analytics

NON MAJOR ELECTIVE COURSE

(The department offers the following two subjects as Non Major Elective Course for other than the computer science students for third and fourth semesters)

S.No	Semester	Subject Code	Subject
1	m	18UCSN301	Internet Technology
2	IV	18UCSN401	HTML and Web Designing

ADD-ON COURSE

S.No	Semester	* Subject Code	Subject
1	III	18UCAAC301	Digital Business
2	Ш	18UCAAC302	Ethics for Digital Era
3	IV	18UCAAC401	Digital Hygiene
4	IV:	18UCAAC402	Fundamentals of Multimedia



Mr. M. PRABAD, USS, MBA, MALL, Controller of Statisticsons K.S. Ramasanay College of Ads & Science (Autogramous)

Tinuchengode - d37 215. Tamilhadu, Inclg.

PROJECT DESCRIPTION

- The project work shall be carried out by group of students in the V semester and has to complete the work at the end of VI Semester.
- Upon completion of the project work/dissertation the candidate will be required to appear for a viva-voce conducted by an external examiner.
- The Student has to attend 3 reviews before completing his/her Project.
- All 3 reviews will be reviewed by External Resource Person.
- A candidate failing to secure the prescribed passing minimum in the dissertation shall be required to re-submit the dissertation with the necessary modifications.
- The assessment of students' performance in a semester is calculated by Continuous Internal Assessment (CA.) for 40 marks and External Assessment for 60 marks.

ADVANCED LEARNERS COURSE

(Student shall study the following Advanced Learner Course during their third semester and complete the course at the end of fourth semester)

S.No	Subject Code	Name of the Course
1	18UCAAL401	Software Testing



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18UCAEL401

ELECTIVE I: PRINCIPLES OF INFORMATION SECURITY

SEMESTER - IV

COURSE OBJECTIVES:

The Course aims

- The importance of Information Security
- Legal and ethical issues of Information Security
- Various Security Technologies to protect Information against threats
- Systematic Project Management to ensure Security in an Organization

Credits: 3			lours: 50
UNIT	CONTENTS	Hrs	CO
I	Introduction to Information Security: Introduction – The History of Information Security – What Is Security? – Components of an Information System – Security in the Systems Life Cycle. The Need for Security: Introduction - Threats and Attacks – Technical Hardware Failures or Errors – Technical Software Failures or Errors	10	CO1
. П	Legal, Ethical, and Professional Issues in Information Security: Introduction – Law and Ethics in Information Security- Relevant U.S. Laws – International Laws and Legal Bodies – Ethics and Information Security – Codes of Ethics at Professional Organizations. Risk Management: Introduction – An Overview of Risk Management– Risk Identification – Risk Assessment – Risk Control.	10	CO2
ш	Planning for Security: Introduction - Information Security Planning and Governance - Information Security Policy, Standards, and Practices - The Information Security Blueprint - Security Education, Training, and Awareness Program. Security Technology: Firewalls and VPNs: Introduction - Access Control - Firewalls - Protecting Remote Connections.	10	CO3
īv	Security Technology: Intrusion Detection and Prevention Systems, and Other Security Tools: Introduction – Intrusion Detection and Prevention Systems – Honeypots, Honeynets, and Padded Cell Systems – Scanning and Analysis Tools. Cryptography: Cipher Methods – Cryptographic Algorithms.	10	CO4
v	Implementing Information Security: Introduction – Information Security Project Management – Technical Aspects of Implementation – Nontechnical Aspects of Implementation – Information Systems Security Certification and Accreditation. Information Security Maintenance: Introduction – Digital Forensics.	10	CO5



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TEXT E	OOK(S)
1	Michael E.Whitman and Herbert J.Mattord .2015. Principles of Information Security. [FifthEdition] Cengage Learning India Private Limited, Delhi.
REFER	ENCE BOOKS
1	Calabrese. 2006. Information Security Intelligence: Cryptographic Principles and
	Applications. [India Edition]. Thomson Delmar Learning Publications.
2	Bhaskar, S.M. and Ahson. S.I. 2008. Information Security - A Practical
	Approach. Narosa Publishing House, New Delhi.

After completion of the course, the students will be able to

CO1	Understand the history and necessity of information security.
CO2	Familiarity of Relevant laws and ethics, risk management in firm.
CO3	Understand the Plan for security and its technologies.
CO4	Ability to understand intrusion detection and prevention system, Security tools.
CO5	Understand about the Security Project management and implementation, e- Discovery.

MAPPING:

PSO CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	М	M	M	L	Н
CO2	M	M	M	M	Н
CO3	M	M	M	M	Н
CO4	M	M	Н	Н	Н
CO5	L	Law In	М	Н	Н

H-High; M-Medium; L-Low

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18UCAEL402

ELECTIVE I: CLIENT/SERVER TECHNOLOGY

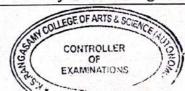
SEMESTER - IV

COURSE OBJECTIVES:

The Course aims

- To understand Client/Server Database Server Model and its Capabilities.
- Explores Transaction Processing, Groupware Model, Distributed Object Model, Applications of Client/Server.

UNIT	CONTENTS	Hrs	CO
I	Your Guide to the New World: The Survival Plan. Welcome to Client/Server Computing: The Client/Server Computing Era – What Is Client/Server? – Will the Real Client/Server Please Stand Up? – Fat Servers or Fat Clients? – 2-Tier versus 3-Tier. Client/Server Building Blocks: Client/Server: A One Size Fits All Model – Inside the Building Blocks.	10	CO1
П	Clients, Servers, and Operating Systems: The Anatomy of a Server Program – What Does a Server Need From an OS? – Server Scalability – Client Anatomy 101. The OS Wars: Meet the Players: Client OS Trends – Server OS Trends. NOS: Creating the Single System Image: NOS Middleware: The Transport Illusion. RPC, Messaging, and Peer-to-Peer: Peer-to-Peer Communications – Remote Procedure Call (RPC).	10	CO2
ш	SQL Database Servers: The Fundaments of SQL and Relational Databases – What Does a Database Server Do? – Stored Procedures, Triggers, and Rules. SQL Middleware and Federated Databases: SQL Middleware: The Options – Will the Real SQL API Please Stand Up? – Open SQL Gateways. Data Warehouses: information Where You Want It: Where Is That OLTP Data Kept? – Information at Your Fingertips – The Data Warehouse.	10	CO3
IV	Client/Server Groupware: Why is Groupware Important? – What is Groupware? – The Components of Groupware. Distributed Objects and Components: What Distributed Objects Promise – From Distributed Objects To Components – 3- Tier Client/Server, Object-Style. CORBA: From ORBs To Business Objects: Distributed Objects, CORBA-Style – OMG's Object Management Architecture.	· Carry	CO4
v	Web Client/Server: The Hypertext Era: Client/Server, Web Style - So What Exactly Is a URL? - HTTP. Web Client/Server: The Interactive Era: CGI: The Server Side of the Web - Web Security. Client/Server Distributed System Management: Dealing With		co!



Mr. M. FRACED, M.Sc., M.B.A., M.Phil., Confeder of Examinations K.S. Rangestary Oblige of Arts & Science (Autonomera) Tracerrangedo - 657 215. Tamilnadu. Inc.;

BCA., (Students admitted from 2018-2019 onwards)

New York	BCA., (Students unmitted from 2010-2015 ontourds)
	Chaos and Learning to Love It - Manager to Agents: What's Going on out There? - The Components of an Open DSM Platform. Client/Server Tools and Application Development: Client/Server Application Development Tools - Client/Server Application Design.
TEXT	BOOK(S):
* 1	Robert Orfali, Dan Harkey, Jeri Edwards, "The Essential Client/Server Survival Guide", Second Edition, 2007, Galgotia Publication.
REFE	RENCE BOOKS:
1	Dawana Travis Dewire, "Client/Server Computing", [3rd Reprint 2005], Tata
	McGraw-Hill Publishing Company Limited, New Delhi.

COURSE OUTCOMES (CO):

After completion of the course, the students will be able to

CO1	Understand Client/Server Model and its Infrastructure
CO2	Explore Clients, Servers and Operating System
CO3	Database Server Model of Client/Server
CO4	Groupware Model and Distributed Object Model of Client/Server
CO5	Explores Internet from Client/Server Perspective and to Manage Client/Server Applications

MAPPING:

PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	L	M	M	. Н	Н
CO2	M	M	Н	M .	Н
CO3	M	Н	M	M	Н
CO4	M	Н	M	M	Н
CO5	H	H	M	Н	Н

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H-High; M-Medium; L-Low

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ELECTIVE I: SOFTWARE ENGINEERING

SEMESTER - IV

COURSE OBJECTIVES:

The Course aims

- The System Development Strategies
- Basics of Software Testing
- The Project Management and Quality Management

Credit	s:3	Total H	ours: 50
Unit	Topics Covered	Hrs	CO
Ι	Introduction: FAQs about software engineering – Professional and ethical responsibility. Software processes: Software process models – Process iteration – Process activities – The Rational Unified Process. Project management: Management activities – Project planning – Project scheduling – Risk management.	10	CO1
π	Software requirements: Functional and non-functional requirements – System requirements – The software requirements document. Requirements engineering processes: Feasibility studies – Requirements elicitation and analysis – Requirements validation. System models: Context models – Behavioural models – Data models – Object models – Structured methods.	10	CO2
III	Architectural design: Architectural design decisions – System organisation – Modular decomposition styles. Distributed systems architectures: Multiprocessor architectures – Client-server architectures – Distributed object architectures. Object-oriented design: Objects and object classes – An object-oriented design process – Design evolution.	10	CO3
IV	Rapid software development: Agile methods - Extreme programming - Rapid application development - Software prototyping. Verification and validation: Planning verification and validation - Software inspections. Software testing: System testing - Component testing - Test case design - Test automation.	10	CO4
V	Managing people: Selecting staff - Motivating people - Managing groups - The People Capability Maturity Model. Software cost estimation: Estimation techniques - Algorithmic cost modelling (the COCOMO model). Quality management: Process and product quality - Quality assurance and standards - Quality planning - Quality control.	10	CO5

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K.S. Rangssamy Coilege of Arts & Science (Autonomous) Tiructiengode - 637/215, Tamilnadu, Inoia.

TEV	BCA., (Students damitted from 2016-2019 onward
1EX 1	Ian Sommerville. 2009, Software Engineering, [Eighth Edition], Pearson Education Ltd, New Delhi
REF	ERENCE BOOKS:
1	Roger S.Pressman. 2010, Software Engineering: A Practitioner's Approach [Seventh Edition]. McGrawHill, Newyork.
2	Deepak Jain, 2009, Software Engineering: Principles and Practices, [First Edition]. Oxford University Press.
3	Waman S Jawadekar, 2008, Software Engineering: a Primer, [First Edition] Tata Mc Graw Hill, New Delhi.
WEB :	REFERENCES:
1	https://www.tutorialspoint.com/software_engineering/index.htm
2	https://en.wikipedia.org/wiki/Software_engineering
3	https://www.edx.org/course/software-engineering-introduction-ubcx-softeng1x

After completion of the course, the students will be able to

CO1	Understand basic Project Management Activities
CO2	Prepare Software Requirement Specifications and understand System Models
CO3	Understand the Architectural Design and Object-oriented Design.
CO4	Understand the concepts associated with RAD and Testing.
CO5	Understand the concepts associated with People Management, Cost Estimation and Quality Management

MAPPING:

PSO CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M	M	M	M	Н
CO2	L	Н	M	L	H
CO3	M	L	H	L	Н
CO4	H	H	M	Hans	М
CO5	L	M	M	H	M

H-High; M-Medium; L-Low



Mr. M. PRASATO, M.Sc., M.S.A., Murham Construitor of Exernitrations KS. Rangesatty College of Atts & Science (Autonomous) Tranchengode - 637, 215, Tamilhadu, India.

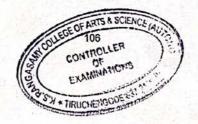
18UCAEL501	ELECTIVE II: SOCIAL AND BUSINESS ETIQUETTE	SEMESTER-V

COURSE OBJECTIVES:

The Course aims:

- To establish social and business ethical behavior in society.
- To explain and demonstrate appropriate dressing and communication in both society and business.
- To develop an action plan to improve personal professionalism.

Credits: 3 Total I			Hours: 40		
UNIT	CONTENTS	Hrs	со		
Ī	Conquering Business From the Break Room to the Boardroom: Networking- Executive Wardrobe Suggestions for Him- Executive Wardrobe Suggestions for Her- In the Workplace- Receiving Line Etiquette- Stand and Deliver.	8	CO1		
II	Conquering Business From the Break Room to the Boardroom: Office Technology and Social Media Savvy-Leaving the Company- The Delicate Art of a Powerful Business Meal: Dining Etiquette from A to Z- Navigating a Buffet Line- 10 Foods to Avoid at a Lunch Job Interview.	8	CO2		
III	The Delicate Art of a Powerful Business Meal: The Importance of Lunch at the Office- How to Propose an Eloquent Toast- Negotiating After- Work Camaraderie (a.k.a., Happy Hour Fun)- Social Skills That Dazzle and Shine: Travel.	8	CO3		
IV	Social Skills That Dazzle and Shine: Host and Guest Duties- How to Host a Dazzling Dinner Party- Dinner Party Guest Faux Pas- RSVP Etiquette- How to Write a	8	CO4		



Mr. M. PRASNO, M.Sc., M.S.A. M. III., Controller of Exeminations K.S. Regissar (Cologo of Arts & Science (Autonomotis) Truchengodo - 627 2.15, Teunilladu, India.

	Notable "Thank-You"-		
	Party Dress Code Defined.		
v	Social Skills That Dazzle and Shine: Hosting a Housewarming – Party- Talking Politics- Weddings- Other Social Events Smart Tips for Daily Savings- Don't Settle for the Scraps.	8	CO5
TEXT BO	OOK(S):		
1	Diane Gottsman, 2017. Modern Etiquette for a Better Life: and Business Exchanges Paperback, Page Street Publishin		All Social
REFERE	NCE BOOKS:		
1	Barbara Pachter, 2013. The Essentials of Business Etiquette Eat, and Tweet Your Way to Success Paperback, McGraw		
2	Lillian H. Chaney, Jeanette S. Martin 2010. The Essential C Etiquette, Harper Collins Publisher.	Guide to	Busines
3	ShitalkakkarMehra,2012. Business Etiquette, Harper Busine Publisher.	ess(Her	per Collin
4	SarveshGulati, 2012. Corporate Grooming and Etiquette, India Pvt. Ltd.	Rupa P	ublication
WEB RE	FERENCES:		
1	http://www.db-business-ethics.org		
2	http://www.business-ethics.com		
3	http://www.investopedia.com -Business -Business Essent	ials.con	ı

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On St	ccessful completion of this course, the student can
CO1	Know the basic ethics to behave in the society.
CO2	Understand etiquette morals of everyday activity.
CO3	Enhance communication, helps to groom in business.
CO4	Improvise civility at workplace and network in business.
CO5	Understand entertaining and social skills in business.

MAPPING

PSO CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	H	L	M .	. L **	L
CO2	M	H	L		L
CO3	M	M	H	$L = \mathbb{R}_+$	L
CO4	L	M		M	\mathbf{L}
CO5	L	Landy L	M	M	M

H-High; M-Medium; L-Low

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18UCAEL502	ELECTIVE II: ARTIFICIAL INTELLIGENCE	SEMESTER-V
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COURSE OBJECTIVES:

The Course aims:

- To learn how computers can be made to perform intellectual tasks like decision making, problem solving and perception
 - To learn how system is made to understand human communication

Credits: 3		Total F	Iours: 40
UNIT	CONTENTS	Hrs	со
Ι	Introduction: Early History of AI – The Middle Ages of AI Development - The Dark Ages of AI Research - The AI Renaissance - To the Present - The Advent of Wireless - HAL 9000 - To The Future - CYBORGS. What is Intelligence?: Defining Intelligence: An Impossible Task? - Animal Intelligence - Brain Size and Performance - Sensing and Movement - Alien View - Subjective Intelligence.	8	CO1
П	What is Intelligence?: IQ Tests- Nature Versus Nurture - Twins - Comparative Intelligence. Classical AI: Introduction - Expert Systems - Conflict Resolution - Multiple Rules - Forward Chaining - Backward Chaining - Good Points - Problems With Expert Systems - Fuzzy Logic - Fuzzification - Fuzzy Rules - Defuzzification - Fuzzy Expert System.	8	CO2
ш	Classical AI: Problem Solving - Breadth-First Search - Depth-First Search - Depth - Limited Search - Bidirectional Search - Searching Problems - Practical Search Examples - Heuristic Searching - Knowledge Representation - Frames - Methods And Demons - Machine Learning - Data Mining - Correlations - Decision Trees - Fuzzy Trees - Applications.	8	CO3



Mr. M. PRASAD, M.Sc., M.B.A., Martin,
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IV	The Philosophy of AI: Introduction - Starting Point - Penrose's Pitfall - Weak AI - Strong AI - Brain-In-A-Vat Experiment - Rational AI - Brain Prosthesis Experiment - The Chinese Room Problem - The Emergence of Consciousness - Technological Singularity - The Turing Test - What Does The Turing Test Actually Test? - Loebner Competition - Can a Machine Tell a Joke? - Argument From Disability.	8	CO4
V	MODERN AI: Introduction - Biological Brain - Basic Neuron Model - Perceptrons And Learning - Self - Organising Neural Network - N-Tuple Network - Evolutionary Computing - Genetic Algorithms - Genetic Algorithm: Simple Example - Genetic Algorithms: Some Comments - Agent Methods - Agents For Problem Solving - Software Agents - Multiagents - Hardware Agents - Subsumption Architecture.	8	CO5
TEXT B	SOOK(S):		
1	Kevin Warwick, "Artificial Intelligence: the basics", 2012, Route New York	ledge I	ublishin
REFER	ENCE BOOKS:	lawaj - i	
1	Elaine Rich, Kevin Knight, "Artificial Intelligence", 2007, [Second McGraw-Hill Publishing Company Ltd, New Delhi.	ond Edi	ition], Ta
2	Stuart Russel, "Artificial Intelligence: A Modern Approach Edition], Pearson Education Inc.	h", 200	7, [Secon
3	Dan W Patterson, "Introduction to Artificial Intelligence and 1999, [Sixth Indian Reprint], Prentice Hall of India Pvt. Ltd, Ne		



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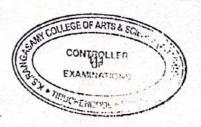
4	Eugene Charnaik, Drew McDermott, "Introduction to Artificial Intelligence",1999, [Second ISE Reprint], Eastern Press Pvt. Ltd.
5	RajendraAkerkar, "Introduction to Artificial Intelligence", 2008, [Third Printing], Prentice Hall of India Pvt. Ltd, New Delhi
WEB R	FERENCES:
1	https://data-flair.training/blogs/ai-tutorials-home/
2	https://www.tutorialspoint.com/artificial_intelligence/
3	https://intellipaat.com/blog/tutorial/artificial-intelligence-tutorial/
4 .	https://www.javatpoint.com/artificial-intelligence-tutorial
5	https://www.edureka.co/blog/artificial-intelligence-tutorial/

CO1	Understand the basics of AI and different types of Intelligence
CO2	Understand the Classical AI Concepts
CO3	Learn the Algorithms/methods used in Classical AI concepts
CO4	Understand the Philosophy of AI
CO5	Learn the Modern AI concepts with the Methods/ Algorithms

MAPPING:

PSO CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	L	M	H	M	
CO2	L.	H	M	Н	M
CO3	L	Н	M	Н	H
CO4	L	H	M	Н	Н
CO5	L	Н	M	Н	Н

H-High; M-Medium; L-Low



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18UCAEL503	ELECTIVE II: SOCIAL MEDIA ANALYTICS	SEMESTER-V
AUCES DE LA DATE		

COURSE OBJECTIVES:

The Course aims

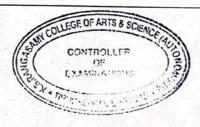
- · To understand the fundamentals of Data Analytics.
- To learn various Social Media Data Analytics tools.

UNIT	CONTENTS	Hrs	CO
I	A Social Media Analytics: An overview: Purpose of Social Media Analytics – Social Media Vs Traditional Business Analytics –Seven Layers of Social Media Analytics – Types of Social Media Analytics – Social Media Analytics Cycle – Challenges to Social Media Analytics - Social Media Analytics Tools.	8	C01
II	Introduction to Social Media: World Wide Web - Web 1.0 - Web 2.0 - Web 3.0 - Social Media- Core Characteristics of Social Media - Types of Social Media. Social Media Text Analytics: Types of Social Media Text- Purpose of Text Analytics - Steps in Text Analytics - Social Media Text Analysis Tools.	8	CO2
Ш	Social Media Actions Analytics: What Is Action Analytics? -Common Social Media Actions - Action Analytics Tools. Mobile Analytics: What is Mobile Analytics? - Types of Apps - Characteristics of Mobile Apps -Developing your own App - Mobile Analytics Tools.	8	CO3
IV	Social Media Hyperlink Analytics: Types of Hyperlinks-	8	CO4



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	Hyperlink Analytics - Hyperlink Analytics Tools. Location	man de la la	
	Analytics: Sources of Location Data - Categories of		
	Location Analytics - Location Analytics and Privacy		
	Concerns - Location Analytics Tools.		
	Search Engine Analytics: Types of Search Engines -Search		
	Engine Analytics - Search Engine Analytics Tools.		
v	Analytics - Business Alignment: Understanding Social	8	CO5
	Media and Business Alignment - Formulating a Social		
	Media Strategy - Managing Social Media Risks.		
TEXT BO	OOK(S):		
1	GoharF.Khan. 2015. Seven Layers of Social Media And Business Insights from Social Media.Kindle Edition.	alytics	- Mining
REFERE	NCE BOOKS:		
REFEREI		Analyt	ics.Creat
	NCE BOOKS: Gohar F. Khan. 2018. Creating Value with Social Media	tics – Te	chnique
1	NCE BOOKS: GoharF.Khan. 2018. Creating Value with Social Media Space, Seattle, USA. Matthew Ganis, AvinashKohirkar, 2016. Social Media Analy and Insights for Extracting Business Value Out of Social	tics – Te Media.	echnique IBM Pres
2	Space, Seattle, USA. Matthew Ganis, AvinashKohirkar, 2016. Social Media Analyand Insights for Extracting Business Value Out of Social Pearson pic. Marshall Sponder, 2012. Social Media Analytics – Eff	tics – Te Media. ective	echnique IBM Pres
1 2 3 4	NCE BOOKS: GoharF.Khan. 2018. Creating Value with Social Media Space, Seattle, USA. Matthew Ganis, AvinashKohirkar, 2016. Social Media Analy and Insights for Extracting Business Value Out of Social Pearson pic. Marshall Sponder, 2012. Social Media Analytics – Eff Building and Interpreting Metrics.McGraw Hill.	tics – Te Media. ective	echnique IBM Pres
1 2 3 4	GoharF.Khan. 2018. Creating Value with Social Media Space, Seattle, USA. Matthew Ganis, AvinashKohirkar, 2016. Social Media Analya and Insights for Extracting Business Value Out of Social Pearson pic. Marshall Sponder, 2012. Social Media Analytics – Eff Building and Interpreting Metrics.McGraw Hill. Krish Krishnan, Shawn Rogers, 2014. Social Data Analytics. E	tics – Te Media. ective	echnique IBM Pres
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On Su	ccessful Completion of this Course, the Student can
CO1	Understand the foundations of Social Media Analytics
CO2	Learn Social Media Text Analytics and Tools
CO3	Enhance the knowledge of Action Analytics and Mobile Data Analytics Tools
CO4	Realize the potential of Location Data Analytics and Hyperlinks Analytics Tools.
CO5	Understand and Use Search engine Analytics tools

MAPPING

PSO CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	L	M	L	L	L
CO2	Ĺ	H	L	М	M
CO3	L	Н	L	M	Н
CO4	L	H	L	M	H
CO5	L	H	L	M	H

CONTROLLER

EXAMINATIONS

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H-High; M-Medium; L-Low

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