

SHIVAJI UNIVERISTY, KOLHAPUR-416 004. MAHARASHTRA

PHONE : EPABX-2609000 website- www.unishivaji.ac.in
FAX 0091-0231-2691533 & 0091-0231-2692333 – BOS - 2609094

शिवाजी विद्यापीठ, कोल्हापूर – 416004.

दुरध्वनी (ईपीएबीएक्स) २६०९००० (अभ्यास मंडळे विभाग— २६०९०९४) फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३.e-mail:bos@unishivaji.ac.in

SU/BOS/comm. And Mgt/9473

Date: 27/08/2018

To,

The Principal,

All Affiliated M.Com IT college Shivaji University, Kolhapur

Subject: Regarding syllabi of First year M.Com (IT Sem 1 and 2) under the Faculty of **c**ommerce and Mangament

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the university authorities have accepted and granted approval to the First year M.Com (IT Sem 1 and 2) under syllabi, Nature of question paper and equivalence under the Faculty of commerce and Mangament.

This syllabus and equivalence shall be implemented from the academic year 2018-2019 (i.e. from June 2018) onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website www.unishivaji.ac.in. (Online Syllabus)

The question papers on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in October /November 2018 & March/April 2019. These chances are available for repeater students, if any.

You are, therefore, requested to bring this to the notice of all students and teachers concerned.

Thanking you,

Yours faithfully,

Dy Registrar

Copy to:

•			
1	TheDean,Faculty of commerce and Mangament		Computer Centre
2	The Chairman, Respective Board of Studies		Affiliation Section (T.1)
3	Director, Examination and Evaluation	9	Affiliation Section (T.2)
4	Eligibility Section		P.G.Admission Section
5	O.E. – 1	11	P.G Seminar Section
6	Appointment Section	12	Meeting Section

Master of Commerce (Information Technology)

M.Com.(IT) Part-I Sem-I & Sem-II (Choice Based Credit System) Introduced from June 2018 and Onwards

1. Implementation of semester system - It was decided that the semester system should be implemented gradually as mentioned below

M.Com.(IT) Part – I Sem-I & Sem-II from Academic year 2018- 19 M.Com. Part – II Sem-III & Sem-IV from Academic year 2019- 20

- 2. Pattern of semester system It was decided to accept 80:20 pattern for the purpose of semester examinations.
- 3. Eligibility: B.Com (IT) with 50% Marks
- 4. Scheme of internal assessment The committee took note of the UGC guidelines and recommended to have continuous internal assessment for M.Com. Programme. Internal Examination will be compulsory for all students. If a student fails / remains absent in internal Examination then he / she will have to clear the internal Examination in subsequent attempt/s.

The following scheme for internal assessment was prepared. The Question paper in each semester (for each paper) shall be of 100 marks wherein 80 % 20 patterns will be accepted. For this purpose following will be the pattern for internal assessment scheme i) M.Com. Part – I and II There will be Home Assignment /Internal Test/ Mini project for 10 marks and Seminar/ Oral / Case study for 10 marks of each semester (The 80:20 Pattern will be applicable to Distance education students. However, for internal work there will be Home assignment of 20 marks for each paper of all semesters)

The division of marks for Paper VIII (404) Project Work in IT will be as 60 marks for project work and 40 marks for viva-Voce. The evaluation of 100 marks will be done at the time of viva-voce by University Committee. Viva voce is to be conducted by, two external and one internal examiners appointed by University. The Chairman of committee has to submit viva voce marks to the University in stipulated time.

5. Duration of semester examination for each paper - The duration of semester examination for each paper of 80 marks shall be of three hours.

The project viva-voce examination is to be conducted by University Appointed examiners before commencement of written examination of university. Two experts in the concern field is to be appointed one is Chairman of committee and other is expert to conduct the viva-voce. Besides this one examiner is to be appointed as internal examiner by the University.

- 6. Equivalence of papers and chances for the students in pre-semester pattern (i.e. annual pattern) Two additional chances shall be provided for the repeater students of the annual pattern. After this the students will have to appear as per the equivalent paper given under semester system.
- 7. Standard of passing- The Standard of passing shall be 40% where the student will have to score 32 marks out of 80 and 8 Marks out of 20 in each paper. There will be a separate head of passing in Theory i.e. (University exam.) and Internal Examination. N.B.:- A student will be allowed to keep term for M.Com. Part-II if he/she passes in all papers of Part I or fails in Part I in any of or all the heads of passing (Sem.I & sem.II) taken together.
- 8. Result The result of each semester should be declared as Pass or Fail.
- 9. The choice based credit system (CBCS) is applicable to M.Com.
- 10. Revised Ordinance and Rules The committee has revised the ordinance and rules as per semester system. Draft ordinance and rules are enclosed herewith for the approval of the respective university authorities. These revised ordinance and rules will be gradually implemented with effect from the academic year 2013 -14 for M.Com. course.

11. NATURE OF QUESTION PAPER

Total Marks:80 Duration: 3 Clock Hours

Instructions: 1) Que. No. 1 & 2 is COMPULSORY

2) Attempt any Three questions from Que. No. 3 to 6

Que:- 1: (A) Multiple choice questions	08 Marks
(B) Fill in the blanks	04 Marks
(C) True OR False	04 Marks
Que 2: Short answer type questions (Any TWO out of THI	REE)16
Marks	
Que:- 3: Long question	16 Marks
Que:- 4: Long question	16 Marks
Que:- 5: Long question	16 Marks
Que:- 6: Write Short Notes (Any TWO out of THREE)	16 Marks

M.Com. (IT) Part- I Course Structure

Paper	Sem I	Paper	Sem II
No.		No.	
101	Management Concepts and	201	Management Concepts and
	Organizational Behaviour Paper		Organizational Behaviour Paper
	I		II
	(Management Concepts)		(Organizational Behaviour)
102	Managerial Economics -Paper I	202	Managerial Economics -Paper II
103	Emerging trends in Information	203	Data Warehousing and Data
	Technology		Mining
104	Computer Networks	204	Advanced Web Technology
	Sem III		Sem IV
301	Management Accountancy	401	Management Accountancy
	Paper-I		Paper-II
302	Business Finance Paper-I	402	Business Finance Paper-II
303	Advance Database Technology	403	Knowledge Management
304	Research Methodology and	404	Research Project in IT
	Project Work		

M.Com. Part-I (Information Technology) Semester-I Compulsory Paper Management Concepts and Organizational Behaviour Paper I (Management Concepts) Paper-No 101

Objectives:

- 1) To acquaint the students with the basic management concepts and process.
- 2) To create awareness among students about the modern trends in the management and impact of globalization.

Total Marks	: 80 Hours of Teaching: 60		
UNIT I-:-	Contribution of Michal porter Mary Parker Follet, Peter	10	
Evolution of Management	Drucker and C.K pralhad Management in 21st century.		
Thought:-	International Management - Impact of globlization on		
	management.		
Unit - 2:-	Definition, characteristics and significance of	15	
Basics of	management, Managerial skills, Henry Mintzberg's roles		
Management:	of manager, Management of Change- Need for change,		
	Resistance to change and remedies to overcome the		
	resistance.		
Unit - 3:-	Planning: Concept, significance and process.		
Managerial	Organizing: Concept and principles, Staffing, Directing		
Functions:	and Controlling: Concepts and process.		
Unit - 4:- Leadership	(A) Leadership: Concept and theories of leadership-	20	
and Motivation:	Traits theory, Behavioural theories, Fiedler's		
	Contingency Theory, Harsey-Blanchard's Theory, The		
	Managerial Grid, Likert's four systems of leadership.		
	(B) Motivation: Concept and process of motivation,		
	Theories of motivation- Maslow's Need Hierarchy		
	Theory, Hertzberg's Two Factor Theory, McGregor's		
	Theory 'X' and Theory 'Y', Alderfer's ERG theory,		

	Victor Vroom's expectancy theory.	
	1	1

References:

- 1) Organization and Management- Dr.C.B.Gupta
- 2) Business Organization and Management M.C. Shukla
- 3) The Practice of Management- Peter Drucker
- 4) Principles of Management O.B. K. Aghurth
- 5) Management and Organizational Behaviour-P. Subbarao
- 6) Organizational Behaiour Keith avis
- 7) Organizational Behaiour Stephen Robbins
- 8) Organizational Behaiour Dr. Anjali Ghanekar

M.Com. Part-I (Information Technology) Semester-I Compulsory Paper Paper-No. 102 MANAGERIAL ECONOMICS Paper I

PREABLE: Managerial Economics is a new branch of Economics. It is applied Economics and constitutes Micro as well as Macro Economic theories, which are useful to business manager in daily decision making regarding his business. Therefore, it is essential to the commerce and management students to aware about the Managerial Economics. They should be well versed in the knowledge of Managerial Economics by keeping this view the syllabus of Managerial Economics is prepared accordingly, to face the problems of the business during the globalization era.

Total Marks	: 80	Hours of Teaching: 60	
Unit 1: Introduction	Meaning, Defi	nition, Nature and Scope of Managerial	14
to Managerial Economics	Economics- Economic Theory and Managerial Theory-		
	Role and Responsibilities of Business Manager-		
	Managerial Ed	conomics and Decision making –	
	Objectives of	Business Firm.	
Unit 2: Demand	Demand funct	ion- Law of Demand- Elasticity of	14
Analysis	demand- Types of elasticity of demand-		
	Measurement of price elasticity of demand – Use of		
	elasticity of demand in Managerial decisions.		
Unit 3: Theory of			16
Consumer's Choice	Theory. Theory of Consumer's Choice under risks-		
	Demand forec	asting – Methods of Demand Forecasting.	
Unit 4: Production	Production Fu	nction- short run production function –	16
Theory	Long-run prod	luction function- Economics of Scale- cost	
	concepts- their nature, shape and Interrelationship.		

Break Even Analysis.	Analysis.
----------------------	-----------

Refere	ence Books :-	
1.	Dean Joel	'Managerial Economics', Tata MC Graw Hill, Delhi.
2.	D.N. Dwivedi	'Managerial Economics', Vikas publishing House PVT Ltd. New Delhi.
3.	R. Cauvery, U.K.	'Managerial Economics',
4.	M.Girija, R. Meenakshi	S.Chand& Company Ltd. New Delhi.
5.	Gough J. & S. Hill S.	. 'Fundamentals of Managerial Economics Macmillan, London.
6.	Peterson, H. Craig & W. Cris Lewis,	'Managerial Economics', Prentice Hall Delhi.
7.	Dr. M.N. Shinde,	'Managerial Economics', AjabPublication, Kolhapur.
8.	H.L. Ahuja,	'Advanced Economic Theory'
9.	K.K. Dewtt,	'Modern Economic Theory' S.Chand& Company Ltd. New Delhi.
10.	Mehta P.L.	'Managerial Economics', S. Chand & Company Ltd. New Delhi.
11.	Gopal Krishna D.,	'A Study of Managerial Economics' Himalaya publishing house, Bombay.
12.	Hague D.C.	Managerial Economic Analysis for Business Decisions, Longman Group Ltd, London.

M.Com. Part-I (Information Technology) Semester-I Paper No:103

Emerging Trends in Information Technology

Course Outcomes:

Students who complete this course should be able to:

- 1. Make use of social media for the different functional areasin the business.
- 2. **Explain**the design and architecture of mobile based applications for the business.
- 3. **Determine** the role of Expert Systems and Big Data Management for the Business Intelligence.
- 4. **Examine** Cloud Computing Architecture for transformation, development and agility in the business.

Marks: 80 Total	Hours of Teaching:	Theory: 40	Practical: 20		
TINITED Y	60	D (' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	6 0 1 1 40		
UNIT I-	Social Networking	g: Definition, Typ	oes of Social 10		
Social Networking	Networking Sites,	l No. 11 C			
a) Theory	Examples of Socia	ii Networking Si	tes: Facebook,		
	Twitter, WhatsApp,		134		
	Social Networking A	-			
	Social Networking, S	0			
	and Privacy Issues of	_	The state of the s		
	Business Applica		•		
		cations, Social	and Political		
la) Dana aki a al	Applications.	- C C: -11-:	g for Marketing 05		
b) Practical					
TINIUM II	•	with special reference to Facebook and Twitter.			
UNIT II-	Mobile Computing Applications: Characteristics of 1				
MOBILE	Mobile computing, Structure of Mobile Computing				
COMPUTING	Application. Mobile Computing Platforms: Special Constrains &				
a) Theory		-			
	-	Requirements, Commercial Mobile Operating Systems: iOS, Android, BlackBerry, Windows			
	-	•	Dung O Comp		
	M.Commerce Applications: Structure, Pros & Cons,				
	Mobile Banking Services, Mobile Payment Systems, Security Issues in M.Commerce.				
h) Dwagtigal			nt system with 05		
b) Practical	Case Study to expla	=	it system with 05		
IINIT III	special reference to Paytm and mPesa				
UNIT III-	,	gence-Introduction	toArtificial 10		
DATA ANALYTICS a) Theory	Intelligence and Expert System, Components of Expert				
aj i neui y	System, Implementing Expert System for Banking and				
	Finance sector.				
	Introduction to Big Data : Definition, Sources of Big				
	Data, Characteristics	of Big Data, Appl	ications of Big		

	Data			
	Big Data Analytics : Introduction to Hadoop, Features,			
	Architecture, Components of Hadoop, Map-Reduce			
	Architecture, Examples of Map-Reduce.			
b) Practical	Case Study to determine the role of Expert System with	05		
	special reference to Credit Risk Analysis for Banking			
	and Finance Sector.			
UNIT IV-	Cloud Models: NIST Cloud Computing Reference 1			
CLOUD COMPUTING	Architecture, IaaS, PaaS, SaaS, Public v/s Private Cloud,			
a) Theory	Basics of Virtualization: Types of Virtualization,			
	Implementation Levels of Virtualization, Virtualization			
	for Data-center,			
	Programming Support : Google App Engine, Amazon			
	AWS,			
	Security in the Cloud : Data Security, Application			
	Security, Virtual Machine Security			
b) Practical	Case Study to examineSaas Applications for Business (
_	with special reference to Business Productivity tool of			
	Amazon AWS.			

Reference Book

- 1. KarabiBandopadhyay, Mobile Commerce, PHI-2013
- 2. ShuenShroff, Web 2.0: A Strategy Guide, O'Reilly
- 3. Eva Foucher, Social Networking: The Top Social Networking Websites That Help
- 4. You Build an Online Presence Quickly, CreateSpace Independent Publishing Platform
- 5. John W.Rittinghouse and James F.Ransome, "Cloud Computing: Implementation, Management, and Security", CRC Press, 2010.
- 6. Toby Velte, Anthony Velte, Robert Elsenpeter, "Cloud Computing, A Practical Approach", Tata MacGraw Hill, 2009.
- 7. JyLiebowitz, "Big Data and Business analytics", CRC press, 2013.
- 8. Tom White, Hadoop: The Definitive Guide, O'Reilly, 3rd edition
- 9. Decision Support Systems and Data Warehouse, B. Ravinath, New Age International Publishers

M.Com. Part-I (Information Technology) Semester-I Paper No:104 Computer Networks

Course Outcomes:

The students will be able to:

- 1. Visualize the different aspects of networks, protocols and network design models.
- 2. Analyze and compare different LAN protocols.
- 3. Examine various Data Link layer design issues and Data Link protocols.
- 4. Compare and select appropriate routing algorithms for a network.
- 5. Examine the important aspects and functions of different layers in internetworking.

Marks: 80 Tota	Hours of Teaching: 60	Theory: 40	Practical: 20	
Unit I	Basics of Data communicat	ion		10
a) Theory	Data Communication concept -Components-sender, receiver, message,			
	transmission media, Data Flo	ow- simplex, half-duplex	, or full-duplex,	
	Networks- Definition, Advantages and disadvantages, Categories of			
	Networks- LAN, WAN. MA	' - '		
	Peer to peer, Multiplexing –			
	Wavelength-Division Multip			
	switching -Circuit switching,	<u> </u>	age Switching	
b) Practical	Case study on Network topol	<u> </u>		05
Unit II	Transmission media and Ro			10
a) Theory	Transmission Media: Guided Media - Twisted-Pair Cable, Coaxial Cable,			
	Fiber-Optic Cable, Unguided Media: Radio Waves, Microwaves, Infrared,			
	satellite communication			
	Transmission Modes- Parallel and Serial -(Asynchronous, Synchronous)			
	Reference Models- OSI reference model, TCP/IP reference model, Comparison of OSI and TCP/IP reference model, Protocol Standards, IP			
			tocol Standards, IP	
	address scheme and characteristics of IP address.			
b) Practical	Case study on network comp	onents		05
Unit III	Data link, Network and Tra	ansport layer		10
a) Theory	Data link Layer- Design issue			
	Network layer- design issues	•		
	Addressing, Routing algorith	m (shortest path, Floodir	ng, distance vector),	
	Congestion control,			
	Transport layer - Transport Layer Primitives: listen, connect, send,			
	receive, disconnect, Protocols: TCP, UDP			
b) Practical	Case study on structure of dis		e	05
Unit IV	Session, Presentation and A			10
a) Theory	Session layer: Services- dialo	•		
	management, exception hand			
	Presentation layer:- Services:			1
	Cryptography: concept, symr	netric key & asymmetric	key cryptography,	<u> </u>

	Application layer: Functions, DNS, SMTP, SNMP, FTP, HTTP	
b) Practical	Study of different application layer protocols	05

Reference Books:

- 1. Behrouz A. Forouzan: Data Communications and Networking, 4th Edition, Tata McGrawHill, 2006.
- 2. William Stallings: Data and Computer Communication, 8th Edition, Pearson Education, 2007.
- 3. Larry L. Peterson and Bruce S. David: Computer Networks A Systems Approach, 4th Edition, Elsevier, 2007.
- 4. Andrew S. Tanenbaum: Computer Networks, 4th Edition, PHI.
- 5. Internetworking With TCP/IP, Douglas Comer, volume 1, Prentice-Hall Publisher, 2005
- 6. Nader F. Mir: Computer and Communication Networks, Pearson Education, 2007
- 7. Black, Data & Computer Communication, PHI
- 8. Miller, data Communication & Network, Vikas

M.Com. Part-I (Information Technology) Semester-II Paper No: 201

(Compulsory Paper) Management Concepts and Organizational Behaviour Paper-II (Organizational Behaviour)

Objectives:

- 1) To familiarize the students with the foundations of individual and group behaviour and the concepts of organizational behavior
- 2) To create awareness among students about the organizational culture and corporate social responsibility

Total Marks	: 80	Hours of Teaching: 60	
Unit-1 ::	Concept and significance-Contributing disciplines to 1		
Organizational	OB- Relationship between management and		
Behaviour :	organizational behavior - Ethical issues in OB		
Unit-2: Individual	(A) Foundatio	ns of Individual Behaviour Learning,	15
and Group	Perception and	l Attitude.	
Behaviour:	(B) Foundation	ns of Group Behaviour: Definition and	
	importance of	group, Types of group, Process of group	
	development,	Group performance factors.	
Unit-3:	A) Organization	onal Conflict :Concept types sources and	15
Organizational	levels of Organizational Conflict, Traditional and		
Conflict and Stress	modern approach to conflict, Functional and		
Management	dysfunctional Organizational conflict, Resolution of		
	conflict.		
	B) Stress Management - Work stress, factors causing		
	stress, Managing stress.		
Unit-4:	(A) Organizational Culture: Definition, importance and		15
Organizational	factors influen	cing organizational culture	
Culture and	(B) Corporate Social Responsibility : Concept,		
Corporate Social	importance and practice		

Responsibility:	

References:

- 1) Management and Organizational Behaviour P.Subbarao.
- 2) Organizational Behaviour Keith Davis.
- 3) Organizational Behaviour Stephen Robbins.
- 4) Organizational Behaviour Dr. Anjali Ghanekar.
- 5) Organizational Behaviour Dr. C.B.Gupta.

M.Com. IT Part-I Semester- II Paper No. 202 Compulsory Paper MANAGERIAL ECONOMICS Paper-II

Preamble

Managerial Economics is a new branch of Economics. It is applied economics and constitutes Micro as well as Macro economic theories which are useful to business manager in daily decision making regarding his business. Therefore, it is essential to the commerce and management students to aware about the managerial economics. They should be well versed in the knowledge of managerial economics. By keeping this view the syllabus of Managerial Economics is prepared accordingly, to face the problem of the business during the globalization era.

Total Marks	: 80	Hours of Teaching: 60		
Unit 1: Price	Perfect Competition- It's features- Price determination 2			
Determination Under Different	in short run and long run Monopoly- features and price			
Market Conditions	determination	determination Monopolistic Competition – features –		
	price determin	nation in short run and long run Oligopoly		
	Market – featu	ares – Independent pricing – price war and		
	price rigidity-			
Unit 2: Pricing	A) (Cost plus pricing – Multiple pricing –	16	
Practices and Investment Analysis.	Price discrimi	nation –International Price discrimination		
	and Dumping – Transfer Pricing			
	B) Capital Budgeting – Need – Criteria for			
	Project appraisal – Pay – Back Method – Accounting Method or Rate of Return and Net Present Value.			
Unit 3: Business	Meaning and l	Phases of Business Cycle – Theories of	12	
Cycles.	business cycle	es – Cob – Web theory- Hicks's Theory		
	and Samuelson's Theory.			

Unit 4: Inflation	Definition – Types – Demand pull and Cost push	12
	Theory – Factors causing inflation -Measures to Control	
	Inflation-Philips Curve.	

Refere	ence Books :-	
1.	Dean Joel	'Managerial Economics', Tata MC Graw Hill, Delhi.
2.	D.N. Dwivedi	'Managerial Economics', Vikas publishing House PVT Ltd. New Delhi.
3.	R. Cauvery, U.K.	'Managerial Economics',
4.	M.Girija, R. Meenakshi	S.Chand& Company Ltd. New Delhi.
5.	Gough J. & S. Hill S.	. 'Fundamentals of Managerial Economics Macmillan, London.
6.	Peterson, H. Craig & W. Cris Lewis,	'Managerial Economics', Prentice Hall Delhi.
7.	Dr. M.N. Shinde,	'Managerial Economics', Ajab Publication, Kolhapur.
8.	H.L. Ahuja,	'Advanced Economic Theory'
9.	K.K. Dewtt,	'Modern Economic Theory' S.Chand& Company Ltd. New Delhi.
10.	Mehta P.L.	'Managerial Economics', S. Chand & Company Ltd. New Delhi.
11.	Gopal Krishna D.,	'A Study of Managerial Economics' Himalaya publishing house, Bombay.
12.	Hague D.C.	Managerial Economic Analysis for Business Decisions, Longman Group Ltd, London.

M.Com. Part-I (Information Technology) Semester-II Paper No:203

DATA WAREHOUSING AND DATA MINING

Course Outcomes:

Students who complete this course should be able to:

- 1. Understand concept and components of data warehouse.
- 2. Illustrate data warehouse applications in business.
- 3. Understand process and importance of data processing in data mining.
- 4. Learn implementation and application of data mining techniques.

Marks: 80 Total	Hours of Teaching: 60	Theory: 40	Practical:	20
Unit I	Data Warehouse: Basic Concepts and Definition, Need and			10
c) Theory	significance of Data Warehouse, Component architecture of Data			
	Warehouse.			
	Data Warehousing : Conce	pt, Dimensional data Mo	deling-Star and	
	Snowflake schema, Data Cu	ibe, OLAP.		
d) Practical	Case study on Data warehou	use for Bank and Insurance	ce company	05
Unit II	Data Warehouse Design a	nd Usage: A Business A	nalysis	10
a) Theory	Framework for Data Wareh	ouse Design, Data Wareh	ouse Design	
	Process, Data Warehouse U	sage for Information Pro	cessing, Data	
	Warehouse Implementation	•		
b) Practical	Case study on Data warehouse design for manufacturing business 05			05
	unit and finance ministry of state government			
Unit III				10
a) Theory	Functionalities, Classification of Data Mining Systems, Major			
	Issues in Data Mining. KDD.			
	Getting to know your data: Data Objects and Attribute Types,			
	Basic Statistical Description	ns of Data, Measuring I	Data Similarity	
	and Dissimilarity.			
	Data Preprocessing: A		leaning, Data	
	Integration, Data Reduction			
b) Practical	DM Applications in Customer Relationship Management (CRM), 05			
	Retail, Telecommunication			
Unit IV	Data Mining techniques			10
a) Theory	Trees, Association Rule Mining, Sequence Mining Benefits of			
	Data mining.			
c) Practical	DM Applications in Bankin	g and Finance etc		05

Reference Books:

- 1.Data Mining: Concept and Techniques Han Elsevier ISBN: 978938031913
- 2. Margaret H. Dunham , S. Shridhar Data Mining- Introductory and advanced topics Pearson education
- 3.Tom Mitchell- machine learning McGraw hill 1997
- 4.Data Mining Techniques-Arun k Pujari,2nd edition ,Universities Press.
- 5.Data Warehousing in the Real Wor;ld-Sam Aanhory & Dennis Murray Pearson Edn Asia.
- 6. Pang-Ning Tan, Michael Steinback, Vipin Kumar, "Introduction to Data Mining", Pearson Education, 2008.
- 7. M.Humphires, M.Hawkins, M.Dy, "Data Warehousing: Architecture and Implementation", Pearson Education, 2009.
- 8. Anahory, Murray, "Data Warehousing in the Real World", Pearson Education, 2008.
- 9. Kargupta, Joshi, etc., "Data Mining: Next Generation Challenges and Future Directions", Prentice Hall of India Pvt Ltd, 2007.

M.Com. Part-I (Information Technology) Semester-II

Paper No: 204

Advanced Web Technology

Course Outcomes:

Students who complete this course should be able to:

- 1. Understand working of .Net framework.
- 2. Demonstrate concept of object oriented programming using C#.
- 3. Understand web controls and develop web application using ASP.Net.
- 4. Develop web based application using ADO.Net.

Marks: 80 Total	Hours of Teaching:	Theory: 40	Practical: 20
TT *4 T	60	N. A. E. I.	0 10
Unit I		.Net Framework	,
e) Theory	Architecture, Features of .NET, Meta data, CLR, Managed and unmanaged code, CTS, CLS, .NET base		
	_		
		to Visual Studio	NET IDE,
6 D	Types of JIT compile		0.5
f) Practical	Practicals based on D		05
Unit II		t: Introduction to C#	1 2
d) Theory		e arguments, Decisio	
		statements, Global stac	
	-	pe and data type, casti	•
	_	and unboxing, pass by	y reference
\	and out parameters.		
e) Practical	C# programs on – Even odd No, Prime No, Factorial, 05		
	Swapping, program using out parameter.		
Unit III	-	hrough ASP.Net: Und	•
c) Theory		and WEB browser, HT	
		e, Introduction to ASF	
		dation controls, Web	
	-	te management, depl	oyment of
	web application throu	_	
d) Practical	•	eb controls, web form v	
Unit IV	Database Connec	•	ADO.Net: 10
b) Theory		O.Net, Architecture of	
	Connected and	,	OataReader,
	DataAdapter, Data		Command.
	•	n ASP.Net and MS.	Sql Server
	database.		
f) Practical	1	between ASP.Net and	•
	-	erform insert, update,	search,
	delete operations on d	lata.	

Reference Books: -

- 1. .NET programming Black Book, DreamTech Press
- 2 .NET 4.5 Programming 6-in-1, Black Book Kogent
- 3. C# 2012 Programming Black Book Covers .NET 4.5 Kogent
- 4. B.M. Harwani, "Practical ASP.NET Projects", SPD Publication
- 5. ChiragPatel, "Advance .NET Technology" 2nd Edition , DreamTech Press,2012
- 6. CristianNagel,BillEvjen,JayGlynn,Karli Watson, Morgan Skinner, "Professional C# 2012 and .NET 4.5", Wrox Publication
- 7. Anne Boehm, Joel Murach, "murach's ASP. NET 4 Web Programming with C# 2010", 4th Edition, SPD Publication, 2011
- 8. Web Technologies Black book, DreamTech Press, 2013, Ralph Moseley & M