Pravara Rural Education Society's
WOMEN'S COLLEGE OF HOME SCIENCE AND BCA
A/p-Loni Kd , Tal-Rahata, Dist-Ahmednagar. Pin- 413 713
Accredited by NAAC with 'A' Grade
Affiliated to Savitribai Phule Pune University, Pune
(ID No.PU/AN/SC/141/2016) AISHE No: C-44342
Office : (02422) 273989,
E-mail : homesciencebca@pravara.in
Principal : (02422) 272065
Web: www.pravarahomesciencebca.org.in

1.2.1 Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

List of Programmes adopting Elective Course System

Home Science

SNDT Women's University, Mumbai

T.Y. BSc. (Home Science) SEMESTER VI

Code No.	Course	TC	Th C	Pr C	Int M	Ext M	Total
0761	Community Nutrition	4	2	2	25	75	100
0762	Food Processing and Product Development	4	2	2	25	75	100
0763	Nutrition and Life style Modifications for Wellness	4	-	4	25	75	100
0764	Professional Applications in Food Science and Nutrition (Internship/Project)	8	-	8	100	100	200
	TOTAL	**20**	**4**	**16**	**175**	**325**	**500**

TC = Total Credits, Th C = Theory Credits, Pr C = Practical Credits

Int M = Internal Marks, Ext M = External Marks

T.Y. BSc. (Home Science) Semester VI
Syllabus of Professional Application in Food Science and Nutrition
(Internship / Project)

Objectives

The course enables the students to:

1. Get hands-on experience in working in thrust areas.
2. Develop technical and communication skills.
3. Develop confidence and enhance soft skills.

	Subject	Total credits	Th	Pr	Int	Ext	Total
0764	Professional Application In Food Science and Nutrition. (Internship / Project)	8	-	8	100	100	200

Duration of Internship: 30 working days

A. Criteria for Internship:

The students should complete training in any of the following:

1. Food Industries
2. Pharmaceutical /Nutraceuticals Industries
3. Analytical Labs
4. Research Organizations
5. NGO's involved in Nutrition programmes

B. Criteria for Project:

1. Students may be given projects planned and implemented by the department.
2. The project can be on Product Development / Nutrition Education / KAP Survey / Nutrition Assessment / Market Research.
3. The project should follow the specified format of : Title, Objectives, Methodology, Results and Discussion.

C. Evaluation

1. Internal assessment: Submission of report and oral presentation by the student.
2. External assessment: Evaluation criteria to be provided by the college to the organization to be filled in and submitted by the supervisor.

COURSE STRUCTURE

I Nomenclature :

Bachelor of Science in Human Ecology and Consumer Services

a. Bachelor of Science in **Human Ecology and Consumer Services**

Note :*The Degree offered is B.Sc. in* **Human Ecology and Consumer Services**

II Duration :

Three years degree programme divided into 6 Semesters

- 1 Semester Duration – 15 weeks approx.
- No. of teaching days in 1 Semester – 90; 180 / year
- No. of working days in a year - 220
- 1 Credit Theory - 1 period of 50 minutes/week
- 1 Credit Practical - 2 periods of 50 mins. each (100 mins.)/week
- Total No. of Credits – 120
- University Examinations : University will conduct the exam for Semester V & VI i.e. for 40 credits.

T.Y. BSc. (Home Science) SEMESTER VI

Code No.	Course	TC	Th C	Pr C	Int M	ExtM	Total
0661	Event Management	04	02	02	25	75	100
0662	Community Nutrition	04	02	02	25	75	100
0663	Basics of Guidance and Counseling	04	04	-	25	75	100
0664	Professional Applications in HECS (Internship/Project)	08	--	08	100	100	200
	TOTAL	**20**	**08**	**12**	**175**	**325**	**500**

TC = Total Credits, Th C = Theory Credits, Pr C = Practical Credits

Int M = Internal Marks, Ext M = External Marks

शैक्षणिक विभाग,
गणेशखिंड, पुणे-४११ ००७
दूरध्वनी क्र.: ०२०-२५६०१२५७/५८
ई-मेल : boards@pun.unipune.ac.in
संकेतस्थळ : www.unipune.ac.in

सावित्रीबाई फुले पुणे विद्यापीठ
(पूर्वीचे पुणे विद्यापीठ)
Savitribai Phule Pune University
(Formerly University of Pune)

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संदर्भ क्र.: CBS/694

दिनांक: 09/07/2018

परिपत्रक क्र.१११/२०१८

विषय: विज्ञान व तंत्रज्ञान विद्याशाखेंतर्गत बी.एस्सी. होम सायन्स (B.Sc. Home Science) पदवीच्या तृतीय वर्षाच्या इंटर्नशिप/प्रोजेक्ट गुणांबाबत..

विद्यापीठ अधिकार मंडळाने घेतलेल्या निर्णयानुसार सर्व संबंधितांस या परिपत्रकाद्वारे कळविण्यात येते की, विज्ञान व तंत्रज्ञान विद्याशाखेंतर्गत बी.एस्सी. होम सायन्स (B.Sc. Home Science) पदवीच्या तृतीय वर्षाकरिता एकूण १०५० गुणांच्या अभ्यासक्रमामध्ये दोन्ही विशेषज्ञतेसाठी (Specialization in 1. Food Science and Nutrition, 2. Textile) ५० गुण इंटर्नशिप/प्रोजेक्ट (Internship/Project) करिता करण्यास शैक्षणिक वर्ष २०१८—१९ पासून मान्यता देण्यात येत आहे.

सावित्रीबाई फुले पुणे विद्यापीठाच्या सर्व संलग्नित विज्ञान महाविद्यालयांच्या प्राचार्यांना विनंती की, सदर परिपत्रकाचा आशय सर्व संबंधितांच्या निदर्शनास आणून द्यावा.

उपकुलसचिव
(शैक्षणिक विभाग)

Pravara Rural Education Society's
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Web: www.pravarahomesciencebca.org.in

Ref. No. CBS/694 Date: 09/07/2018

Translation of Circular No. 111/2018 dated on 09/07/2018

Subject-Regarding marks of Third Year B.Sc. (Home Science) Internship/Project under faculty of Science and Technology.

As per decision of University Academic Council, all concerned are here by informed that for Third Year B.Sc. (Home Science) specialization (1. Food Science and Nutrition 2. Textile) 50 marks out of 1050 are allotted for Internship/Project sanctioned from the academic year 2018-19.

Dr. S. R. Kuchekar
Principal
Women's College of Home Science and BCA
At/Po. Loni Tal. Rahata, Dist. Ahmednagar
Pin. 413713

Women's College of Home Science, B.C.A. Loni.

Savitribai Phule Pune University, Pune

Faculty of Home Science

Food Science & Nutrition(Semester - VI)

Semester	No. of Papers (T)	No. of Practical (P)	Theory (60 marks)	Practical (40 marks)	Total (100)	Workload*		
I	5	5	300	200	500	5Tx4*=20 5Px3*=15	35	35
II	5	5	300	200	500	5Tx4*=20 2Px3*=15	35	
III	5	5	300	200	500	5Tx4*=20 5Px3*=15	35	35
IV	5	5	300	200	500	5Tx4*=20 5Px3*=15	35	
V	5	5	300	200	500	5Tx4*=20 5Px3*=15	35	35
VI	5	5	300	200	500	5Tx4*=20 5Px3*=15	35	
Internship/Project					**50**			
Total	**30**	**30**	**1800**	**1200**	**3050**		**210**	**105**

Faculty of Home Science

Textile Science & Care (Semester-VI)

Semester	No. of Papers (T)	No. of Practical (P)	Theory (60 marks)	Practical (40 marks)	Total (100)	Workload*		
I	5	5	300	200	500	5Tx4*=20 5Px3*=15	35	35
II	5	5	300	200	500	5Tx4*=20 2Px3*=15	35	
III	5	5	300	200	500	5Tx4*=20 5Px3*=15	35	35
IV	5	5	300	200	500	5Tx4*=20 5Px3*=15	35	
V	5	5	300	200	500	5Tx4*=20 5Px3*=15	35	35
VI	5	5	300	200	500	5Tx4*=20 5Px3*=15	35	
Internship/Project					**50**			
Total	**30**	**30**	**1800**	**1200**	**3050**		**210**	**105**

BCA

SNDT Women's University, Mumbai

2011-12

SEMESTER – V (Third Year)

Subject Code	Subjects	L	Cr.	P/T	D	Ext Exam	Internal	P/V	T
5001	Introduction to Statistical Methods & Numerical Methods	4	4	-	2.5	75	25	-	100
5002A	JAVA Programming(Th)	2	2	-	2	50	-	-	50
5002B	JAVA Programming(Pr)	-	2	4	-	-	50	-	50
5003	PC Maintenance	-	2	4	-	-	50		50
5004	MIS	4	4	-	2.5	75	25	-	100
5005	Introduction to Software Engineering	4	4	-	2.5	75	25	-	100
5006A	Web Technology – I (Th)	2	2	-	2	50	-	-	50
5006B	Web Technology – I (Pr)	-	2	4	-	-	50	-	50
5007	Mini project	-	2	4	-	-	50	-	50
	Total	**-**	**24**	**-**	**-**	**325**	**275**	**-**	**600**

SEMESTER – VI (Third Year)

Subject Code	Subjects	L	Cr.	P/T	D	Ext Exam	Internal	P/V	T
6001A	Open Source Programming(Th)	2	2	-	2	50	-		50
6001B	Open Source Programming(PR)	-	2	4	-	50	-		50
6002	System Software	4	4	-	2.5	75	25	-	100
6003A	Web Technology – II (Th)	2	2		2	50	-		50
6003B	Web Technology –II (Pr)	-	2	4	-		50		50
6004	**Electives -**								
6004	ERP/ computer Security/ Introduction to Artificial Intelligence	4	4	-	2.5	75	25	-	100
6004A	Advance Java(Th)	2	2	-	2	50	-	-	50
6004B	Advance Java(Pr.)	-	2	4	-	50	-	-	50
6005	*Project	-	8	16	-	-	100	100	200
	Total	**-**	**24**	**-**	**-**	**300**	**200**	**100**	**600**

Note:

- 1 Lecture/Practical = 50 minutes
- Internal marks consist of practical /Viva/Assignments/Unit Test/projects/Presentation
- 4 Credit Theory papers can be considered as Theory + Tutorials
- Two Unit Test Compulsory
- Mini Project: out of 4 hours, 2 hours are contact hours and remaining 2 hours are self work.
- *Project: out of 16 hours, 4 hours are contact hours and remaining 12 hours are field work.
- One credit =25 marks., Total

6004: Elective:

ERP

1. Introduction to ERP
An Overview
Integrated management Information
Seamless Integration
Supply Chain Management
Resource Management
Integrated Data Modeling
Scope
Technology
Benefits of ERP
Evolution
ERP and the Modern Enterprise
2. Business and ERP
Business Engineering
Significance, Principles
BRP ERP and IT
Business Engineering with Information Technology
ERP and Management Concerns
Business Modeling for ERP
3. ERP Implementation
Role of Consultants, Vendors and User
Customization, Precautions,
ERP post implementation Options
Methodologies and guidelines for ERP Implementations
4. ERP and Competitive Advantages
Overview
ERP AND THE Competitive Strategy
Text Book : V.K. Garg and N.K.Venkitakrishnan "ERP : Concepts and Planning" PHI , 1998

Advanced Java

Sr. No.	Topic	No. of lectures	Marks
1	**Java Programming** • Object oriented programming revisited - JDK, - Java Virtual machine - Platform independent - Portability - Scalability - Operators and expressions - decision making branching - looping - Classes, Objects and methods - Arrays Strings and Vectors - Interfaces, Packages, Multi-Threading, managing errors and exceptions - Applet programming - Managing files and streams	6	12
2	Java Technology for Active Web Documents • Active Documents and Server Overhead • Active Document Representation and Translation, • Java RunTime Environment, • The Java Library: A Graphics Toolkit, Using Java Graphics on a Particular Computer, • Java Interpreters and Browsers	4	8
3	Java Applets • Compiling a Java Program, Invoking an Applet, • Example of Interaction with a Browser	4	8
4	RPC and Middleware • Programming Clients and Servers, Remote Procedure Call Paradigm, RPC Paradigm, Communication Stubs, External Data Representation, Middleware and Object-Oriented Middleware	3	6
5	Java technologies • Graphics, JFC-JAVA foundation classes, swing, images, Java 2d graphics, internationalization	2	4
6	Communication and Networking • TCP Sockets, UDP Sockets, *java.net*, Java security, Object serialization, Remote method serialization	4	8
7	JDBC: Java Data Base Connectivity, Java beans, Java interface to CORBA, JAVA- COM Integration, Java Media Framework, commerce and Java wallet. Data structures and java utilities.	2	4

(31)

	JavaScript, Servlets		
	Total	**25**	**50**

Textbook:

1. Joseph L weber, "Using JAVA 2", PHI

References:

1. Sybex, "JAVA 2 complete", BPB
2. Patrick Naughton "Java2 The complete Reference", TMH
3. Cay Horstmann "Computing concepts With JAVA2", WILEY,2003
4. Barry Burd "JSP Java Server Pages", IDG Books India(p) Ltd
5. Aaron Walsh ,"Java2 Programming Bible", IDG Books India(p) Ltd
6. swing, sen/lets "Java2 ,JDBC & JAVA Beans Programming Black Book "Steven
   Holzner dreamtech press

Advanced Java (LAB)

Sr.No.	Topic	No. of lectures	Marks
1.	Implement concept of class, constructor and inheritance (extends).	6	8
2.	Applet application.	4	4
3.	Multithreading (using frames).	4	4
4.	Exception handling.	2	3
5.	File handling.	2	3
6.	Create jar files using java package.	2	3
7.	Swing Application.	2	3
8.	Using Dialog boxes	2	3
9.	JDBC (Java Database Connectivity) application using frames.	4	4
10.	Client server program for network management.	4	4
11.	Java server page (JSP) for web application.	4	5
12.	Login form to implement servlets.	2	3
13.	Implement a Remote Procedure Call.	2	3
	Total	40	50

Textbook:

1. Patrick Naughton, "Java2 The complete Reference", TMH

References:

1. Gary Cornell, "Core Java Volume I – Cay Horstmann", Sun Microsystem
2. Gary Cornell, "Core Java Volume II – Cay Horstmann", Sun Microsystem

P. G. DEPARTMENT OF COMPUTER SCIENCE

S.N.D.T. Women's University, Mumbai

IV Floor, UMIT Building, Sir Vithaldas Vidyavihar, Juhu Tara Road, Santacruz (West), Mumbai - 400 04
Phone : 2660 5127, Email : computersc@sndt.ac.in

Ref. No. MCA/PGDCSA/BCA/2015-16/ 23

To.

Date: 24/04/2015

The Principal/Head/Course Co-Coordinator,
Course-BCA.

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Sub: Syllabus for BCA Sem-V and Sem-VI revised in 2013 and with effective from Academic Year 2013-14 batch.

Dear Sir/Madam,

Pl. find here enclosed revised syllabus for B.C.A (Bachelor of Computer Applications) Sem-V & VI, revised in 2013 and applicable from the academic year 2013-14 batch.

Important Note:

1. This revised syllabus (revised in 2013) is applicable for the students who have taken admissions in the first year BCA in the academic year 2013-14 batch onwards.
2. Further you are requested to give your open feedback / inputs, valuable suggestions and critical comments regarding the syllabus (Revised in 2013). You can forward it immediately to us for further reference and necessary action by mail or hard copy forwarded through principal on following address.

Thanks and Regards,

Dr.G. M. Magar
Associate Professor & Head.
P.G. Dept. of Computer Science,
S.N.D.T. Women's University,
Juhu Tara Road, Santacruz(w),
Mumbai-400 049.(MS), India.
Mobile No.9423365143
Off Tel: 022-26605127.
e-mail: drgmmagar@gmail.com.

CC: The Director, BCUD, S.N.D.T. Women's University Churchgate, Mumbai-20.

BCA Dept

BCA SEMESTER-V

ode	Subject	L	Pr./ Tu	Cr	Ext. Exam.	Int. Exam.	Total Marks
101	Data Communication and Networking	3	1	4	75	25	100
102	JAVA Programming	4	-	4	75	25	100
103	Visual and Database Programming	2	2	4	75	25	100
104	Internet Programming	4	-	4	75	25	100
201	JAVA Programming LAB*	-	2	2	25	25	50
02	Internet Programming LAB*	-	2	2	25	25	50
	Total			**20**			**500**

SEMESTER-V	**1 Credit=25 Marks Total Credits = 20 Total Marks = 20*25=500**

BCA SEMESTER-VI

	Subject	L	Pr./ Tu	Cr	Ext. Exam.	Int. Exam.	Total Marks
	Management Information System	3	1	4	75	25	100
	Enterprise Resource Planning	3	1	4	75	25	100
	INTELLIGENT PROPERTY RIGHTS, PATENTS AND CYBER LAWS	4	-	4	75	25	100
	Elective						
	1. E-COMMERCE	4	-	4	75	25	100
	2. Artificial Intelligence						
	3. Web Technology						
	Project*	2	2				
		-	4	4	50	50	100
	Total			**20**			**500**

SEMESTER-VI	**1 Credit=25 Marks Total Credits = 20 Total Marks = 20*25=500**

SEMESTER						
I	II	III	IV	V	VI	
0	20	20	20	20	20	**1 Credit=25 Marks Total Credits = 120 Total Marks = 120*25=3000**

		Cryptography		
UNIT-IV	8	**Cyber Law: Information Technology Act 2000 :** Information Technology Act-2000- (Sec 1 to 94).	5	10
	9	**Cyber Law:** **Intellectual Property Issues in Cyber Space:** Copyright in the Digital Media, Patents in the Cyber World. **Rights of netizens and E-Governance:** Privacy and Freedom Issues in the Cyber World, E-Governance, Cyber Crimes and Cyber Laws, Ethical hacking.	5	10
	10	**Cyber Law:** Cyber Law Issues for Management :Cyber Law Issues in E-Business Management, Major issues in Cyber Evidence Management	5	10
Total			50	100

Text and Reference Books:

1. Cyber law by Vivek Sood
2. Licensing Art & Design by Caryn R. Leland, Allworth Press
3. A Professional's Guide to Licensing and Royalty Agreements by Caryn R. Leland Allworth Press
4. IT2000 Bill
5. How To Register Your Own Copyright by Marx Warda, Sphinx Publishing
6. Web sites: online information, handouts

Branch: BCA	**Semester-VI**
Subject Code: 6104	**Lecture: 04** **Credit: 04**
Subject Title	**ELECTIVE-1** **E-COMMERCE**

Modules	**Sr. No.**	**Topic Details**	**No. of Lectures Assigned**	**Marks Weightage %**
UNIT-I	1	**Electronic Commerce:** Overview, Definitions, Advantages & Disadvantages of E –Commerce, Threats of E – Commerce, Managerial Prospective, Rules & Regulations For Controlling E – Commerce, Cyber Laws. Technologies : Relationship Between E – Commerce & Networking, Different Types of Networking For E – Commerce, Internet, Intranet & Extranet, EDI Systems	6	12
	2	**Wireless Application Protocol :** Definition, Hand Held Devices, Mobility & Commerce, Mobile Computing, Wireless Web, Web Security, Infrastructure Requirement For E – Commerce	6	12
UNIT-II	3	**Business Models of e – commerce:** Model Based On	4	12

		Transaction Type, Model Based On Transaction Party - B2B, B2C, C2B, C2C, E – Governance.		
	4	**E – strategy :** Overview, Strategic Methods for developing E – commerce.	2	
	5	**Four C's : (Convergence, Collaborative Computing, Content Management & Call Center).** Convergence : Technological Advances in Convergence – Types, Convergence and its implications, Convergence & Electronic Commerce.	8	16
UNIT-III	6	**Supply Chain Management :** E – logistics, Supply Chain Portal, Supply Chain Planning Tools (SCP Tools), Supply Chain Execution (SCE), SCE - Framework, Internet's effect on Supply Chain Power.	8	32
	7	**E – Payment Mechanism :** Payment through card system, E – Cheque, E – Cash, E – Payment Threats & Protections. E – Marketing :. Home –shopping, E-Marketing, Tele-marketing Electronic Data Interchange (EDI) : Meaning, Benefits, Concepts, Application, EDI Model, Protocols (UN EDI FACT / GTDI, ANSI X – 12), Data Encryption (DES / RSA).	8	
UNIT-IV	8	**Risk of E – Commerce:** Overview, Security for E – Commerce, Security Standards, Firewall, Cryptography, Key Management, Password Systems, Digital certificates, Digital signatures.	8	16

Text Books:

1. E-Commerce,M.M. Oka, EPH
2. Kalakotia, Whinston : Frontiers of Electronic Commerce , Pearson Education.
3. Bhaskar Bharat : Electronic Commerce - Technologies & Applications.TMH
4. Loshin Pete, Murphy P.A. : Electronic Commerce , Jaico Publishing Housing.
5. Murthy : E – Commerce , Himalaya Publishing.
6. E – Commerce : Strategy Technologies & Applications, Tata McGraw Hill.
7. Global E-Commerce, J. Christopher & T.H.K. Clerk, University Press
8. Beginning E-Commerce, Reynolds, SPD
9. Krishnamurthy, E-Commerce Mgmt, Vikas

Branch: BCA	**Semester-VI**
Subject Code: 6104	**Lecture: 04** **Credit: 04**
Subject Title	**ELECTIVE-2** **ARTIFICIAL INTELLIGENCE**

Modules	Sr. No.	Topic and Details	No of Lectures Assigned	Marks Weightage %
UNIT-I	1	Introduction: Intelligence Agents , Agents and Environment , Good Behavior: The Concept of Rationality, Performance measures, Rationality, Omniscience, learning, and autonomy The nature of environments, Specifying the task environment, Properties of task environments	5	10
	2	Solving Problem by searching: Problem Solving Agents, Well-Defined problems and solutions, formulating problems 3.2 Example problems, Toy problems, Real world problems , Searching for solutions, Measuring problem solving performance, Uniformed search strategies, Breadth first search, Depth first search, Depth limited search, Iterative depending depth first search, Bidirectional search, Comparing uniformed search strategies	6	12
UNIT-II	3	Informed Search and Exploration: Informed search strategies, Greedy best first search, A* search: Minimizing the total estimated solution cost, Memory bounded heuristic search, learning to search better , Heuristic function, The effect of heuristic accuracy on performance, Inventing admissible heuristic functions, Learning heuristic from experience 4.3 Local search algorithms and optimization problems, Hill-climbing search, simulated annealing search, local beam search, genetic algorithm	6	12
	4	Adversarial Search: Games , Optimal Decision in Games, Optimal strategies, The minimax algorithm, Optimal decision in multiplayer games, Alpha Beta Pruning, 5.4 Imperfect, Real time decision, Evaluation functions, Cutting of search	5	10
UNIT-III	5	Logic Agents: Knowledge based agents , The Wumpus world , Logic Propositional Logic: A very simple logic, Propositional Logic: A very simple logic, Syntax, Semantics, A Simple knowledge base, Inference, Equivalence, validity, and satisfiability ,Reasoning patterns in propositional logic, Resolution, Forward and backward chaining	6	12
	6	First Order Logic: Representation Revisited , Syntax and semantics of First order logic, Model for first order logic, symbol and interpretations, Terms, Atomic Sentence, Complex Sentence, Quantifier, Equality, Using first order logic, assertion and queries in first order logic, The kinship domain, Number Sets and lists, The wumpus world	6	12
UNIT-IV	7	Learning from Observation: Forms of learning , Inductive learning, Learning Decision trees, Decision	8	16

		trees as performance elements, Expressiveness of decision tree, Inducing decision trees from examples, Choosing attribute tests, Assessing the performance of the learning algorithm, Ensemble learning		
	8	Knowledge in Learning: A logic formulation of learning, Examples and hypotheses, Current best hypothesis search, Knowledge in learning, Some simple examples, Some general schemes, Explanation based learning, Extracting general rules from examples, Improving efficiency	8	16
		Total	50	100

Textbook:

1. Stuart Russell, Peter Norvig, "Artificial Intelligence (A Modern Approach)" , Second Edition , Pearson Education, Limited, 01-Mar-2005

References:

1. N. P. Padhy "Artificial Intelligence and Intelligence Systems", Oxford University Press, 21-Apr-2005
2. Patrick Henry Winston, "Artificial Intelligence"1921
3. George F. Luger, "Artificial Intelligence (Structure & Strategies for Complex Problem solving):"
4. Rich & Knight, "Artificial Intelligence", McGraw-Hill, 1991
5. Neeta Deshpande, "Artificial Intelligence" , Technical Publication –Pune

Branch: BCA	**Semester-VI**
Subject Code: 6104	**Lecture: 04** **Credit: 04**
Subject Title	**ELECTIVE-3** **WEB TECHNOLOGY**

Modules	**Sr. No.**	**Topic and Details**	**No of Lectures Assigned**	**Marks Weightage %**
UNIT-I	1	**General:** HTTP: Overview – HTTP Basics, Client request, Server response; HTTP Headers; Session Management – Persistent connections, Cookies. General concepts on web server: Configuration & Administration; virtual hosting General concepts of caching proxy server, Web security SSL, Digital signatures; Authentication.	8	16
UNIT-II	2	**Client side technologies** HTML: Structure of HTML Document – Meta tags, Links, Text, Lists, Tables, Inclusions (Objects, Images, applets and Multimedia	10	20

		contents);Presentation of HTML document – Style sheets, Alignment, fonts, frames; Interactive HTML document – Forms, Scripts. XML: Well-formed, Valid document, Document Type Definitions and Document Object Model Client Side JavaScript: Object Reference – Objects. Methods and Properties, Event Handlers; Language constructs – Statements and Operators.		
UNIT-III	3	PERL & CGI CGI architecture Intro PERL with Features, Working with Strings and Arrays, File Handling, Pattern matching & formatting, Creating and using subroutines, Using PERL for CGI scripting Java Servlets & JSP Active Server Pages: Overview, Request, Response, Applications, Sessions, Cookies, Data Store Access, Web Applications. SSI: SSI Directives; SSI Environment Variables; SSI Formats.	10	20
UNIT-IV	4	ASP Introduction : ASP Install, ASP Syntax, ASP Variables, ASP Procedures, ASP Forms, ASP Cookies, ASP Session, ASP Application, ASP Server, ASP Error, ASP File System, ASP Text Stream, ASP Drive, ASP File, ASP Folder, ASP Dictionary	12	24
		Apache Tomcat Server Obtaining and Installing Apache Tomcat, Tomcat Directory Structure - bin, conf, logs, server, work, temp, webapps, Web Application Directory Structure, Deploying HTML and JSP Pages, Configuring Tomcat - Editing server.xml, Deploying Web Applications - Deployment Descriptors, web.xml configuration file Tomcat Manager - Deploying and Managing Web Application using the Tomcat Manager, Creating a WAR File Configuring Tomcat to Connect to a Database Configuring Security on Tomcat, Granting Permissions to Java Apps	10	20
		Total	50	100

References:

1. Beginning Web Programming with HTML, XHTML, CSS & JavaScript by Jon Duckett, Wrox.
2. Webmaster in a Nutshell by Stephen Spainhour, O'Reilly and Associates.
3. JavaScript: The Definitive Guide by David Flanagan, O'Reilly and Associates.
4. Beginning ASP 3.0 by David Buser and Others, Wrox.