

Veer Narmad South Gujarat University
Department of ICT
B.Sc.IT , Semester 2
Credits: 02
Paper No: 201
Business Communication Skills in English (AEC)

Objectives:

- To produce skilled and industry ready professionals for better placements and preparing them for the real world .
- To make the students aware about business, corporate and IT related professional Communication.
- Make the students proficient &enable them to meet the requirements of communication at the office .

Outcomes:

Students will be ready for the real world.
Students will be aware about the Scenario in Corporate world.
Students will be able to communicate well in IT Organization.

Unit 1. Understanding Business and Professional Communication :(Theory)

- Professional Communication- Meaning and Need
- Features of successful Professional communication
- Purpose of Professional communication
- The Role and Purpose of Business Communication

Unit 2: Understanding Specific Communication Needs (Theory)

- Corporate communication
- Persuasive strategies in Business communication
- Ethics in Business communication
- Business Etiquette and Netiquette

Unit 3: Business Writing

- Business writing

- Business conversations
- Writing for a website

Unit 4: Business Vocabulary :

- Business Idioms
- Expressions :

Resume, Interview, Meetings, Group discussion, Client conversations, Presentations

Unit 5 :LSRW Skills in Business Communication :

- Business Greetings
- Talking about Software, Website, IT Companies, New Trends in IT,
- Business terms with correct Pronunciations
- Tasks based on LSRW Skills:

Reference Books:

1. Business Communication –Connecting in a Digital world, Mc.Graw Hill, Raymond V. Lesikar
2. Business Communication,Oxford University Press,Carolyn Meyer & N. Bringi Dev
3. Intercultural Business Communication,Oxford University Press, Robert Gibson
4. Business Communication: Connecting at Work,Oxford University Press,Hory Sankar Mukerjee
5. Communication Skills for Professionals ,Prentice Hall India Learning Private Limited; 2nd edition (2011),Konar N.
6. The New Rules of Business ,Penguin Random House ,Srivastava , Rajesh,2019.
7. Business Communication,Harvard Business Review Press,
8. Professional Communication,Oxford,Meenakshi Raman,Sangeeta Sharma.2017
9. Business Communication (2nd Edition) Meenakshi Raman,Prakash Singh.2019.
10. Successful Presentations for professionals who use English at work. Oxford University Press, Video Course.

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT.

SYLLABUS FOR M.Sc. (I.T.) (UG)

SEMESTER-2

Course : 202 : Mathematics-2

Effective from June- 2021

(4 Hours/Week, Credits : 4)

O.I. Change

Minimum weeks per semester: 15 (Including class work, examination, preparation, holidays etc)

Purpose of course : Students will be able to explain and apply the basic methods of mathematics.

Course objective : To develop logical sequence in the design and analysis of algorithm,
computability theory, software engineering and computer systems.

Pre-requisite : Basics of Mathematics

Course Outcome : Students will be equipped with logic to develop design and analysis of
algorithm, computability theory, software engineering and computer
systems.

Teaching Methodology : Lectures, Discussion, Independent Study, Seminars and Assignments.

Evaluation Method : 30% Internal assessment and 70% External assessment.

Course Content :

Unit 1: Basic concept of Graph Theory :

- 1.1 What is graph?
- 1.2 Application of Graphs
- 1.3 Directed graph
- 1.4 Finite and Infinite graphs
- 1.5 Incidence and Degree
- 1.6 Isolated vertex, Pendent vertex and Null graph
- 1.7 Simple graph
- 1.8 Regular graph

Unit 2 : Paths and Circuits :

- 2.2 Isomorphism
- 2.2 Sub graphs
- 2.3 A puzzle with Multicolored cubes
- 2.4 Walks, Paths and Circuits
- 2.5 Connected graphs, disconnected graphs and Components. Decomposition
- 2.6 Euler graphs, Universal graph
- 2.7 Operations on graphs –Union, Intersection, Ring sum
- 2.8 Complete graph
- 2.9 Hamiltonian paths and Circuits
- 2.10 Seating arrangement problems
- 2.11 The travelling Salesman problem

Unit 3 : Trees and Fundamental Circuits :

- 3.1 Trees
- 3.2 Some properties of trees

B. Baile

- 3.3 Pendant Vertices in a tree
- 3.4 Distance and Centers in a tree
- 3.5 Rooted and Binary trees
- 3.6 On counting trees
- 3.7 Spanning trees
- 3.7.1 Finding all Spanning trees of graph
- 3.8 Fundamental circuits
- 3.9 Spanning tree in a Weighted graph

Unit 4 : Planar graphs :

- 4.1 Combinatorial vs Geometric graphs
- 4.2 Planar graphs
- 4.3 Non-Planar graphs
- 4.3 Kuratowski's $K_{3,3}$ and K_5 graphs.
- 4.4 Different representation of planar graph

Unit 5 : Matrix representation of graphs :

- 5.1 Incidence matrix
- 5.2 Sub matrices of $A(G)$
- 5.4 Path matrix
- 5.5 Adjacency matrix.

Reference Books :

1. Narsinh Deo : Graph Theory with applications to engineering and computer Science, Prentice – Hall Inc. (2005).
2. B. Satyanarayan, K.S. Prasad : Discrete Mathematics & Graph Theory, PHI (2009).
3. R.Manohar, Trembly J.P.: Discrete Mathematical structure with application to Computer Science, TMH, 1999.
4. Wilson R.J.: Introduction to Graph Theory, 3rd edition, Longmann, 1984.
5. Gibbons A.: Algorithmic Graph Theory, Cambridge University Press, 1984.
6. Harry F.: Graph Theory, Narosa Publication, 1995.
7. Richard J.: Discrete Mathematics, Pearson Educations, Asia, 2001.

Revises

B.Sc. (I.T.) / M.Sc. (I.T.) 2nd Semester**Course : 203 : Fundamentals of Programming using C - II**

Course Code	203																								
Course Title	Fundamentals of Programming using C - II																								
Credit	4																								
Teaching per Week	4 Hrs																								
Minimum weeks per Semester	15 (Including Class work, examination, preparation, holidays etc.)																								
Last Review / Revision	June 2023																								
Purpose of Course	To teach advanced concepts of C language																								
Course Objective	To impart knowledge of structures, union, pointers, user defined functions, pre-processor directives and file management features of C language.																								
Course Outcomes	CO1 : Students will be able to learn advanced concepts of c programming like pointer , structure, union, etc. CO2 : Students will be able to have the knowledge of file system and file management concepts with c language CO3 : Students will be have ability to work on pre-processor																								
Mapping between COs with PSOs	<table><tr><td></td><td>PSO1</td><td>PSO2</td><td>PSO3</td><td>PSO4</td><td>PSO5</td></tr><tr><td>CO1</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CO2</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CO3</td><td></td><td></td><td></td><td></td><td></td></tr></table>		PSO1	PSO2	PSO3	PSO4	PSO5	CO1						CO2						CO3					
	PSO1	PSO2	PSO3	PSO4	PSO5																				
CO1																									
CO2																									
CO3																									
Pre-requisite	Basic knowledge of problem solving and C programming.																								
Course Outcome	Students will be able to write programs using structures, union, pointers, user defined functions, pre-processor directives and file management in C language.																								
Course Content	Unit : 1 : Structure and Union 1.1 Structure 1.1.1 Declaring and Defining Structure elements 1.1.2 Structure Initialization 1.1.3 Structure assignment 1.1.4 Array of Structure, Array within a structure 1.1.5 Nested Structure 1.1.6 Size of Structure 1.2 Union Unit : 2 : User Defined Functions 2.1 Introduction 2.2 Declaration and Definition 2.3 Methods of parameter passing 2.4 Scope of variables and storage classes 2.5 Recursion 2.6 Passing array to functions 2.7 Passing Structure, union to function Unit : 3 : Pointer 3.1 Pointer Basics 3.2 Pointers and arrays 3.3 Chain of pointers																								



	3.4 Pointer and character strings 3.5 Array of pointers, pointer to array 3.6 Pointer and functions 3.6.1 Call by value & call by reference 3.6.2 Passing array to a function using pointer 3.7 Pointer to structures 3.8 Issues with pointers 3.9 Dynamic memory allocation 3.9.1 Allocating a memory block 3.9.2 Allocating multiple blocks of memory 3.9.3 Altering the size of a block 3.9.4 Releasing used Space Unit : 4 : File Management in C 4.1 Introduction: Definition, File structure, concept of Record 4.2 File access modes: Sequential, random, binary, 4.3 File Operations 4.2.1 Creating a new file 4.2.2 Opening a file 4.2.3 Reading from a file 4.2.4 Writing to a file 4.2.5 Moving to a specific location in a file (Seek) 4.2.6 Closing a file 4.4 Error handling during I/O operations 4.5 Command Line Arguments Unit : 5 : The Pre-processor 5.1 Features of C Preprocessor 5.2 Macro 5.3.1 Macro Expansion 5.3.2 Macro with arguments 5.3.3 Nested Macro 5.3 File Inclusion 5.4 Conditional compilation 5.5 Compiler Control Directives
Reference Book	1 Programming in ANSI C : E. Balagurusamy - Tata McGraw Hill 2 Let us C : Yashwant Kanetkar - BPB Publications 3 Pointers in C : Yashwant Kanetkar - BPB 4 The complete Reference C : Herbert Schildt - McGrawHill 5 Programming with C : R S Bichkar - Universities Press 6 C Programming Language : Karnighan & Ritchie - TMH 7 Mastering Turbo C : Stan Kelly - BPB
Teaching Methodology	Discussion, Independent Study, Seminars and Assignment

P. M. Desai

B.Sc. (I.T.) / M.Sc. (I.T.) 2nd Semester

Course : 204 : Introduction to DBMS

Course Code	204																								
Course Title	Introduction to DBMS																								
Credit	4																								
Teaching per Week	4 Hrs																								
Minimum weeks per Semester	15 (Including Class work, examination, preparation, holidays etc.)																								
Last Review / Revision	June 2023																								
Purpose of Course	To introduce the basic concepts of database management system that includes data models, database design and basic practical of open-source DBMS.																								
Course Objective	To teach fundamental concepts of DBMS including data models, ER diagrams, different types of databases. This course also entails practical aspects of open-source database.																								
Course Out comes	CO1 : Student will be able to learn basic concept of database management system and data models CO2 : Students will be have the knowledge of various data models CO3 : Student will be able work on database management system MySQL and perform practical like creating database , tables and manipulating records																								
Mapping between COs with PSOs	<table><tr><td></td><td>PSO1</td><td>PSO2</td><td>PSO3</td><td>PSO4</td><td>PSO5</td></tr><tr><td>CO1</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CO2</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CO3</td><td></td><td></td><td></td><td></td><td></td></tr></table>		PSO1	PSO2	PSO3	PSO4	PSO5	CO1						CO2						CO3					
	PSO1	PSO2	PSO3	PSO4	PSO5																				
CO1																									
CO2																									
CO3																									
Pre-requisite	Fundamentals of Computer, Programming Language																								
Course Outcome	Students will be able to understand and implement basic database design principles, learn overview of different types of databases. Students will also be able to perform practical on database.																								
Course Content	Unit : 1 : Basic Concepts of DBMS 1.1 File Organization and Traditional File based System 1.2 Database and Need for DBMS 1.3 Characteristics of DBMS 1.4 Applications of DBMS 1.5 Views of Data - Schema and instances 1.6 Data Independence 1.7 Database Languages 1.8 Transaction Management 1.9 ACID Properties of Transaction 1.10 Database Administrator and Database Users 1.11 Overall System Architecture																								



Unit : 2 : Data Models

- 2.1 Data Models
 - 2.1.1 Network Model
 - 2.1.2 Hierarchical Model
 - 2.1.3 Relational Model
 - 2.1.4 Object Model
 - 2.1.5 Object-Relational Model
- 2.2 Entity Relationship Model
 - 2.2.1 DB Design using ER Model
 - 2.2.2 Entities
 - 2.2.3 Relationships
 - 2.2.4 Attributes
 - 2.2.5 Entities and Relationship Set
 - 2.2.6 Constraints and Design Issues
 - 2.2.7 Weak Entity Set
 - 2.2.8 Cardinality Ratio

Unit : 3 : Types of Databases and Recent Trends in DBMS

- 3.1 Types of Databases
 - 3.1.1 Object Oriented Database
 - 3.1.2 Centralized Database
 - 3.1.3 Distributed Database
 - 3.1.4 Parallel Database
 - 3.1.5 Multimedia Database
 - 3.1.6 NoSQL Database
 - 3.1.7 Temporal Database
 - 3.1.8 XML Database
- 3.2 Recent Trends in DBMS
 - 3.2.1 Overview of Various Databases - MySQL, PostgreSQL, SQLite, MongoDB, MariaDB, Oracle, DB2 and SQL Server
- 3.3 Big Data

Unit: 4 : Introduction to Open Source Database - MySQL

- 4.1 Getting Started with MySQL
- 4.2 Installing MySQL *
- 4.3 Data Types
- 4.4 Creating and Using Database
- 4.5 DDL Statements
 - 4.5.1 Create Table
 - 4.5.1.1 Constraints
 - 4.5.1.2 Primary Key and Foreign Key Constraint
 - 4.5.2 Alter Table
 - 4.5.3 Delete Table

Unit : 5 : DML Statements and Other Functions of MySQL

- 5.1 DML Statements
 - 5.1.1 Insert Statement
 - 5.1.2 SQL
 - 5.1.3 Select Statement
 - 5.1.4 Update Statement
 - 5.1.5 Delete Statement
- 5.2 Aggregate Functions



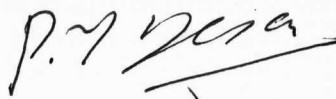
	5.3 Numerical Functions 5.4 String and Character Functions
Reference Book	1. Database System Concepts : Silberschatz, Korth and Sudarshan - McGraw Hill 2. An introduction to database systems : C. J. Date - Addison Welsley 3. Fundamentals of Database Systems : Elamsri, Navathe, Somayajulu and Gupta - Pearson Education 4. PHP and MySQL Web Development (Developer's Library) : Luke Welling - Addison - Wesley Professional 5. The Complete Reference MySQL : Vikram Vaswani - McGraw Hill 6. Murach's MySQL : Joel Murach - Mike Murach & Associates, Inc.
Teaching Methodology	Lectures, Discussion, Independent Study, Seminars, Case Study and Assignment

P. V. Vaswani

B.Sc. (I.T.) / M.Sc. (I.T.) 2nd Semester

Course : 205 : Practical 2

Course Code	205																								
Course Title	Practical 2																								
Credit	4																								
Teaching Per Week	8 Hrs																								
Minimum Weeks Per Semester	15 (Including Practical Work, Examination, Preparation, Holidays etc.)																								
Last Review/Revision	June 2023																								
Purpose of Course	To impart practical knowledge of structures, union, pointers, user defined functions, preprocessor directives, file management, etc. features of programming & basic database management concepts.																								
Course Objective	To give practical knowledge of structures, union, pointers, user defined functions, preprocessor directives, file management, etc. using C language. & database creation, management, basic database queries using MySQL.																								
Prerequisite	Basic knowledge of C language and Programming Concepts																								
Course Out comes	CO1 : Students will be able to solve problems using advanced features of C language. CO2 : Students will be able to solve complex problems using pointers in C language. CO3 : Students will be able to do database management operations using MySQL																								
Mapping between COs with PSOs	<table><tr><td></td><td>PSO1</td><td>PSO2</td><td>PSO3</td><td>PSO4</td><td>PSO5</td></tr><tr><td>CO1</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CO2</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CO3</td><td></td><td></td><td></td><td></td><td></td></tr></table>		PSO1	PSO2	PSO3	PSO4	PSO5	CO1						CO2						CO3					
	PSO1	PSO2	PSO3	PSO4	PSO5																				
CO1																									
CO2																									
CO3																									
Course Outcome	Students will be able to solve problems using advanced features of C language & design MySQL database(s) along with data manipulation concepts of DBMS.																								
Course Content	Practical based on Paper No. 203 - Fundamentals of Programming using C-II & Paper No. 204 – Introduction to DBMS. Weightage: 70% based on Paper No 203 30% based on Paper No 204																								
Reference Books	NIL																								
Teaching Methodology	Lab Work																								





Re-Accredited 'B++' 2.86 CGPA by NAAC

VEER NARMAD SOUTH GUJARAT UNIVERSITY

University Campus, Udhna-Magdalla Road, SURAT - 395 007, Gujarat, India.

વીર નર્મદ દક્ષિણ ગુજરાત યુનિવર્સિટી

યુનિવર્સિટી કેમ્પસ, ઉધના-મગદલા રોડ, સુરત - ૩૯૫ ૦૦૭, ગુજરાત, ભારત.

Tel : +91 - 261 - 2227141 to 2227146, Toll Free : 1800 2333 011, Digital Helpline No.- 0261 2388888

E-mail : info@vnsgu.ac.in, Website : www.vnsgu.ac.in

એમ.એસસી (આઈ.ટી) પ્રોગ્રામ/

તા. ૨૫/૪/૨૦૨૩.

પ્રતિ,

કુલસચિવશ્રી

વીર નર્મદ દક્ષિણ ગુજરાત યુનિવર્સિટી

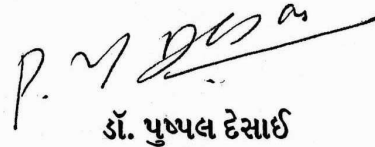
સુરત.

ધ્યાન :- એકેડેમિક વિભાગ

સંદર્ભ :- ક્રમાંક : એકે/પરિપત્ર/૧૫૭૧૫/૨૦૨૧, તા. ૧૨/૧૦/૨૦૨૧.

મહાશય,

સવિનય ઉપરોક્ત સંદર્ભ અન્વયેનાં પત્ર અન્વયે જણાવવાનું કે વીર નર્મદ દક્ષિણ ગુજરાત યુનિવર્સિટીનાં ડીપાર્ટમેન્ટ ઓફ આઈ.સી.ટી. ખાતે શૈક્ષણિક વર્ષ ૨૦૨૩ થી Environmental Studies નામનો value added course અને Introduction to Linux નામનો Skill Enhancement Course ચાલુ કરવા અંગે યોગ્ય ઘટતું થવા વિનંતી છે. આ સાથે સદર કોર્ષ અંગેની માહિતી મોકલવામાં આવે છે. જે આપશ્રીની જાણ માટે.



ડૉ. પુષ્પલ દેસાઈ

હેડ

ડીપાર્ટમેન્ટ ઓફ આઈ.સી.ટી.

Proposal Date: 1/05/2023

Form – CC-01

(Certification Course Proposal Form)

Title of Certification Course: DISASTER MANAGEMENT AND PREPAREDNESS

Name of Institution: DEPT. OF ICT, VN SGU (VAC)

Faculty Name: FACULTY OF IT

Name of Course-In-Charge: DR. DILBER MEHTA

Course Credit for Proposed Course: 02

Total Course Hours : 30 (VAC)

Objective of the Course:	TO MAKE THE STUDENTS AWARE ABOUT DISASTER AND ITS MANAGEMENT
Pre-requisite:	BASIC KNOWLEDGE OF ENVIRONMENT
Expected Outcomes of the Course:	STUDENTS LEARN TO DEAL WITH DISASTERS AND HAVE THE PREPAREDNESS TO FACE IT AND HELP THE SOCIETY
Course Nature : (Theory / Practical / Field based or Blended)	BLENDED
Eligibility Criteria of Participants:	HSC PASS
Total Maximum Seats allotted for the Course:	264
Course Syllabus (In Detail):	ENCLOSURE I
Proposed Fees Per Credit	NIL
Exam Pattern: (MCQ / Written / Practical / Blended)	MCQ

P. Y. Desai
2/5/23
HEAD
(Name and signature of authorized official
Department of I.T.
Veer Narmad South Gujarat University, seal)
SURAT.

[For Office Use] :

Application Received Date: _____

Approved By: _____

Course Code allotted : _____

Approval Date: _____

Signature by the University Official : _____

**Department of Information and Communication Technology,
Veer Narmad South Gujarat University,
Surat**

**Syllabus for Value Added
Certificate Course in Disaster Management & Preparedness
Course Credit: 2
Total Contact Hours: 30**

**Department of I.C.T
Veer Narmad South Gujarat University
SURAT**

Subject: Disaster Management and Preparedness

Value added course

Credits :2

No. of Lectures: 30

Unit 1: Introduction to Disaster:

➤ **Concepts and Definitions**

- Disaster
- Hazard
- Risk
- Vulnerability
- Resilience

Unit 2: Disasters: Classification, Causes, Impacts

➤ **Natural Disaster:**

- Earthquake
- Tsunami
- Landslides
- Volcanic Eruptions
- Flood
- Droughts
- Health
- Tornadoes
- Epidemics

➤ **Man-Made Disasters:**

- Socio-technical Disasters
- Technological Disaster
- Transportation Disaster
- Structural Collapse
- Wars

Unit 3: Approaches to Disaster Risk Reduction:

- Disaster Management Cycle
- Phases of Disaster cycle

- Culture of safety, prevention, mitigation and preparedness
- Community based disaster risk reduction
- Structural and Non -structural Measures
- Responsibilities of Community

- Responsibility of State, Centre and other stake holders

Unit 4: Inter-relationship between Disasters and Development:

- Factors Affecting Vulnerabilities
- Different Impacts
- Impact of Developmental Projects

Unit 5: Disaster Risk Management in India and Case Studies:

➤ Hazards and Vulnerability Profile of India

- Components of Disaster Relief
- Existing Institutional Framework
- Four Phases of Disaster Management

➤ Case Studies:

- Earthquake at Bhuj (Gujarat), 2001
- Tsunami, 2004

Reference Books:

1. Disaster Management Guidelines, GOI-UND Disaster Risk Program (2009-2012)
2. Damon, P. Copola, (2006) Introduction to International Disaster Management, Butterworth Heineman.
3. Gupta A.K., Niar S.S and Chatterjee S. (2013) Disaster management and Risk Reduction, Role of Environmental Knowledge, Narosa Publishing House, Delhi.
4. Murthy D.B.N. (2012) Disaster Management, Deep and Deep Publication PVT. Ltd. New Delhi.
5. Modh S. (2010) Managing Natural Disasters, Mac Millan publishers India LTD.
6. Dhavan, Gauba Nidhi and Khan Sardar Ambrina. Disaster Management and Preparedness, CBS Publishers and Distributors.

Proposal Date: 1/05/2023

Form - CC-01

(Certification Course Proposal Form)

Title of Certification Course: ENVIRONMENTAL STUDIES (VAC)
Name of Institution: DEPARTMENT OF ICT
Faculty Name: INFORMATION TECHNOLOGY
Name of Course-In-Charge: DR. DILBER MEHTA
Course Credit for Proposed Course: 02
Total Course Hours : 30

Objective of the Course:	TO CREATE AWARENESS ABOUT ENV
Pre-requisite:	BASIC KNOWLEDGE ABOUT ENV
Expected Outcomes of the Course:	STUDENTS DEVELOP SENSITIVITY TOWARDS ENV STUDENTS LEARN TO PRESERVE & NURTURE ENV AWARENESS ABOUT ENV & ITS VALUES IS CREATED
Course Nature : (Theory / Practical / Field based or Blended)	BLENDED
Eligibility Criteria of Participants:	12th PASS
Total Maximum Seats allotted for the Course:	260
Course Syllabus (In Detail):	ENCLOSURE ATTACHED
Proposed Fees Per Credit	NIL
Exam Pattern: (MCQ / Written / Practical / Blended)	MCQ

P. Y. Desai
HEAD 5/2/23
(Name of the Authorized official
Department of ICT,
Veer Narayana South Gujarat University
SURAT.)

[For Office Use] :

Application Received Date: _____

Approved By: _____

Course Code allotted : _____

Approval Date: _____

Signature by the University Official : _____

**Department of Information and Communication Technology,
Veer Narmad South Gujarat University,
Surat**

**Syllabus for Value Added
Certificate Course in Environmental Studies
Course Credit: 2
Total Contact Hours: 30**

**Department of I.C.T
Veer Narmad South Gujarat University
SURAT**

Subject: Environmental Studies

Value added course

Credits :2

No. of Lectures: 30

Unit1

Introduction to Environmental Studies:

- Need for Public Awareness
- Ministry of Environment and Forest and climate change
- Scope and Importance
- Population growth and our resources
- Environmental footprint
- Importance of Management of the environment

Unit 2

Concept of Sustainability and Sustainable development:

- New Dimensions for Mainstreaming Sustainable Development into college Curricula
- The Need for sustainable Lifestyles
- Equitable use of resources for sustainable lifestyle
- Environmental education and education for sustainable development – the different perspectives
- The need for gender equality

Unit 3

Environmental Pollution & Climate Change:

- Causes of pollution and preventive measures
- Effects of pollution
- Control of pollution
- Types of pollution:
 - Air pollution
 - Water pollution
 - Soil Pollution
 - Chemical pollution
 - Noise pollution
- **Climate change :**
 - Global warming, Ozone Layer Depletion and impacts on human communities and agriculture

Unit 4

Human Health and Diseases Today:

- **Mental Problems:** Stress, Anxiety, Depression- Causes and Preventive Measures
- Food Habits and Lifestyle

Diseases:

- Cancer : Causes and Preventive Measures
- Covid-19 : Causes and Preventive Measures
- Aids: Causes and Preventive Measures

Unit 5

Disaster Management and Risk Reduction:

- Disaster and Its types
- Disaster Management
- Disaster Risk Reduction and Preventive Measures

Suggested Reading:

1. Bharucha, E. 2003, Textbook for Environmental Studies, University Grants Commission, New Delhi and Bharati Vidyapeeth Institute of Environmental Education and Research, Pune. 361.
2. Carson, Rachel. 1962. Silent Spring (Boston: Houghton Mifflin, 1962), Mariner Books, 2002
3. Economy, Elizabeth. 2010. The River Runs Black: The Environmental Challenge to China's Future.
4. Gadgil, M. & Ramachandra, G. 1993. This fissured land: an ecological history of India. Univ of California Press.
5. Gleeson, B. and Low, N. (eds.) 1999. Global Ethics and Environment, London, Routledge.
6. Grumbine, R. Edward, and Pandit, M.K. Threats from India's Himalaya dams. Science 339.6115 (2013): 36-37.
7. Heywood V.H. & Watson, R.T. 1995. Global Biodiversity Assessment. Cambridge University Press.
8. McCully, P. 1996. Silenced rivers: the ecology and politics of large dams. Zed Books.
9. McNeill, John R. 2000. Something New Under the Sun: An Environmental History of the Twentieth Century.
10. Odum, E.P., Odum, H.T. & Andrews, J. 1971. Fundamentals of Ecology. Philadelphia: Saunders.
11. Pepper, I.L., Gerba, C.P. & Brusseau, M.L. 2011. Environmental and Pollution Science. Academic press, 2011.
12. Rao MN and Datta AK, 1987. Waste Water Treatment. Oxford and IBH Publishing Co. Pvt. Ltd.
13. Raven, P.H., Hassenzahl, D.M. & Berg, L.R. 2012. Environment. 8 th edition. John Wiley & Sons.
14. Ricklefs, R. E., & Miller, G.L. 2000. Ecology. W. H. Freeman, New York.

15. Robbins, P. 2012. Political ecology: A critical introduction. John Wiley & Sons.
16. Rosencranz, A., Divan, S. & Noble, M.L.. Environmental law and policy in India. 2001. Tripathi 1992.
17. Sengupta, R. 2003. Ecology and economics (OUP): An approach to sustainable development." OUP Catalogue.
18. Singh, J.S., Singh, S.P. and Gupta, S.R. 2006. Ecology, Environment and Resource Ecology, Environment and Resource Conservation. Anamaya Publishers.
19. Sodhi, N.S., Gibson, L. & Raven, P.H.G. (eds). 2013. Conservation biology: voices from the Tropics. John Wiley & Sons.
20. Van Leeuwen, C. J., & Vermeire, T. G. 2007. Risk assessment of chemicals.
21. World Commission on Environment and Development. 1987. Our Common Future. Oxford: Oxford University Press.

Department of I.L.L.
reer Narmad South Gujarat University
SURAT

Proposal Date: _____

Form – CC-01

(Certification Course Proposal Form)

Title of Certification Course: Internet and Web Technology

Name of Institution: Department of Information and Communication Technology,
Veer Narmad South Gujarat University, Surat

Faculty Name: _____

Name of Course-In-Charge: Dr. Payal Joshi

Course Credit for Proposed Course: 3

Total Course Hours : 30

Type of Course : (AEC/SEC/VAC) SEC

(AEC = Ability Enhancement Course / SEC = Skill Enhancement Course / VAC = Value Added Course)

Objective of the Course:	To make the students aware of Internet and website designing using HTML, CSS and CSS Framework
Pre-requisite:	NIL
Expected Outcomes of the Course:	CO1 : Students will be able to get knowledge of internet technologies and services CO2 : Students will be able to learn HTML structure and various tags CO3 : Students will get an ability to design and develop web application , and also do animation with CSS and JavaScript
Course Nature : (Theory / Practical / Field based or Blended)	Theory
Duration of the Course/Program: (In weeks and Hours)	30 Hrs.
Eligibility Criteria of Participants:	12 th Pass
Total Maximum Seats allotted for the Course:	264
Proposed Fees per Credit	NIL
Course/Program Syllabus (In Detail) (Attach Enclosure)	Enclosure - 1
Evaluation Pattern: (MCQ / Written / Practical / Blended)	50 marks written and 50 marks practical examination

P. V. Desai
2/5/23

HEAD

(Name and signature of Authorized official
Veer Narmad South Gujarat University with official seal)
SURAT.

[For Office Use] :

Application Received Date: _____ Approved By: _____

Course Code allotted : _____ Approval Date: _____

Signature by the University Official : _____

**Department of Information and Communication Technology,
Veer Narmad South Gujarat University,
Surat**

**Syllabus for Skill Based
Certificate Course in Internet and Web Technology**

**Course Credit: 3
Total Contact Hours: 30**

Department of I.C.T.
Veer Narmad South Gujarat University
SURAT.

Certificate Course Name: Internet and Web Technology

[Skill Enhancement Course]

Course Credit: 3

Total Contact Hours: 30

Unit 1 Introduction to Internet:

- History of Internet
- Working of Internet
- Internet Applications
- Advantages of Internet
- WWW
- Uniform Resource Locator
- W3C Standards
- Web Pages
- Web Server
- Web Browsers
- Domain Name Service
- Applications of Internet
- Internet Service Providers
- DSL, Broadband and ISDN
- Dedicated Connections
- Wireless Connections
- IP Addresses - IPv4 and IPv6
- DHCP
- Static IP and Dynamic IP

Unit 2 HTML:

- Structure
- Open Source HTML Editors
- Links
- Images and ImageMaps
- Tables
- Forms
- Frames

Unit 3 Advanced HTML:

- Semantic Elements and Non-Semantic Elements
- HTML5 Elements
- HTML5 Input Types and Attributes
- Graphics - Canvas and SVG
- Media - audio, embed, source, track and video

Unit 4 Advanced Cascading Style Sheet (CSS):

- Style Sheet Types
 - Linked
 - Embedded
 - Inline
- Style Sheet Precedence
- Style Sheet Syntax
- Using Classes
- Font Control
- Text Control
- Color and Background
- List Box Control
- Miscellaneous Properties
 - Margin and Padding Properties
 - Border Properties
 - Tables
- Multi-Column Layouts
- Gradients
- Drop Shadows
- 2D Transforms
 - Translate
 - Rotate
 - Scale
 - Skew
- 3D Transforms
- Transitions
- Animations
- Paged Media
- Using Ready made Templates
- Bootstrap framework
 - Introduction to Responsive Design, Using Bootstrap in a Web page
 - Typography, Color management, Jumbotron, Images, Alerts, Buttons
 - Tables, Forms, Drop downs, Navigation bar, Grid Basics, Pagination
 - Testing responsiveness using Browser Developer Tools

Unit 5 Web Designing Fundamentals:

- Role and Tasks of a Web Designer
- Characteristics of User Friendly Websites with Improved UI/UX
- Basic Search Engine Optimization (SEO) Techniques
- Case Study

Proposal Date: _____

Form – CC-01

(Certification Course Proposal Form)

Title of Certification Course: E Business and Cyber Laws

Name of Institution: Department of Information and Communication Technology,
Veer Narmad South Gujarat University, Surat

Faculty Name: _____

Name of Course-In-Charge: Dr. Devendra Pandey

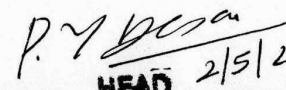
Course Credit for Proposed Course: 3

Total Course Hours : 30

Type of Course : (AEC/SEC/VAC) SEC

(AEC = Ability Enhancement Course / SEC = Skill Enhancement Course / VAC = Value Added Course)

Objective of the Course:	To Impart fundamental Knowledge of E Business and Cyber Laws
Pre-requisite:	NIL
Expected Outcomes of the Course:	CO1 : Students will be able learn about E-commerce business models and strategy CO2 : Student will get knowledge about identify the key security threats in the E-commerce environment. CO3 : Student will learn various type of cyber security techniques and cyber laws
Course Nature : (Theory / Practical / Field based or Blended)	Theory
Duration of the Course/Program: (In weeks and Hours)	30 Hrs.
Eligibility Criteria of Participants:	12 th Pass
Total Maximum Seats allotted for the Course:	264
Proposed Fees per Credit	NIL
Course/Program Syllabus (In Detail) (Attach Enclosure)	Enclosure - I
Evaluation Pattern: (MCQ / Written / Practical / Blended)	50 marks MCQs


HEAD 2/5/23
(Name and signature by Authorized official
of the Institution with official seal)
Veer Narmad South Gujarat University,
SURAT.

[For Office Use] :

Application Received Date: _____ Approved By: _____

Course Code allotted : _____ Approval Date: _____

Signature by the University Official : _____

Enclosure-1

**Department of Information and Communication Technology,
Veer Narmad South Gujarat University,
Surat**

**Syllabus for Skill Based
Certificate Course in E Business and Cyber Laws**

**Course Credit: 3
Total Contact Hours: 30**

**Department of I.C.T.
veer Narmad South Gujarat University
SURAT**

Certificate Course Name: E Business and Cyber Laws

[Skill Enhancement Course]

Credit: 3

Total Contact Hours: 30

Unit 1 E-Commerce:

- E Business
- E Business Models
- The Technologies and Infrastructural requirements of E-Commerce
- Advantages and Disadvantages of E-Commerce
- International issues of Electronic Commerce
- Types of business transactions (B2B), (B2C), (B2G), Business Processes
- Digital India Services, DigiLocker and other tools

Unit 2 Introduction to E Payments:

- Digital payments requirements
- Digital Token based E payment systems
- Classification of new payment system
- E Wallet
- Online Internet Banking
- Unified payment Interface – BHIM and other tools
- Online financial services in India

Unit 3 Cryptocurrency, Bitcoin and Blockchain:

- Introduction to Cryptocurrency
- How Cryptocurrency Works , Ewallet Services and Personal Cryptosecurity
- Introduction to Bitcoin , Merchants acceptance of Bitcoin
- How Bitcoin Works overview, Transaction ,Blocks , Mining
- Blockchain – Technology Stack :Protocol, Currency
- Financial Services
- Crowd Funding
- Bitcoin Prediction Markets,
- Smart Property
- Smart Contracts
- Decentralized Governance Services.
- The Blockchain is an Information Technology

Unit 4 Cyber Security:

- Introduction
- Network and website Security Risks

Department of I.L.T
reer Narmad South Gujarat University
SURAT

- Hacking
 - Privacy Risk
 - Cyber Defamation
 - Identity Theft & Fraud
 - Digital Forgery
 - Cyber terrorism
 - Cyber Pornography
 - Digital Forgery
 - Digital Signature
 - E- business Risk management issues
 - Firewall, Security framework
-

Unit 5 Cyber Laws:

- Cyber Crimes against Individuals, Institution and State
- Computer and mobile as target for crime
- Introduction to Cyber Laws
- Limitation of India's Cyber Laws
- Types of Civil Wrongs under the IT Act, 2000
- Punishments under the IT Act
- Intellectual Property Rights

Department of I.L.T
reer Narmad South Gujarat University
SURAT.