AC –
Item No. –

As Per NEP 2020

Tolani College of Commerce (Autonomous)

Knowledge is Supreme

Title of the Course: Object Oriented Programming

Programme: B.Sc(Information Technology) Semester II

Syllabus for 4 credits Course

From the academic year- 2024-2025

Sr. No.	Heading	Particulars
1	**Description of the course**	Object-oriented programming (OOP) is a style of programming characterized by the identification of classes of object closely linked with the methods (functions) with which they are associated.
2	**Vertical:**	Major
3	**Type:**	Theory and Practical
4	**Credit**:	4 credits (1 Credit = Theory and 1 Credit = Project Work)
5	**Hours Allotted:**	60 Hours
6	**Marks Allotted**:	100 Marks Continuous Evaluation:40 Semester End Examination:60
7	**Course Objectives**: **1.** This course provides rich experience on C++ Programming, understand the concepts of C++ language and expertise in using C++ **2.** To implement real-world entities like inheritance, hiding, polymorphism, etc. in programming **3.** The main aim of OOPS is to bind together the data and the functions that operate on them so that no other part of the code can access this data except that function. **4.** This course provides rich experience of Handling exceptions to control errors.	
8	**Course Outcomes**: **1.** Learn basics of OOPS, Understand functions in C++ **2.** Understand Constructor and polymorphism Concept **3.** Learn the inheritance concepts, Ability to learn pointers, Know about error handling **4.** Learn how to control errors with exception handling	

9	**Module1: Object Oriented Methodology and Principles of OOPS (15 Hours)**
	• Introduction, Advantages and Disadvantages of Procedure Oriented Languages, what is Object Oriented? What is Object Oriented • Development? Object Oriented Themes, Benefits and Application of OOPS • OOPS Paradigm, Basic Concepts of OOPS, Objects, Classes, Data Abstraction and Data Encapsulation, Inheritance, Polymorphism, Dynamic Binding, Message Passing, Returning object from functions, friend classes.
	Module2: Classes, Objects and Constructors and Destructors (15 Hours)
	• Simple classes (Class Specification, Class members accessing), Defining member functions, passing object as an argument, Returning object from functions, • Friend classes, pointer to object, Array of pointer to object. • Introduction, Default Constructor, Parameterized Constructor and examples, Destructors,
	Module3: Polymorphism and Virtual Function (15 Hours)
	• Concept of function overloading, overloaded, operators, overloading unary and binary operators, overloading • Comparison operator, overloading arithmetic assignment operator, Data Conversion between objects and basic types, Virtual Functions, Introduction and need. • Introduction and need, Pure Virtual Functions, Static Function, this pointer, abstract classes, virtual destructors.
	Module4: **Inheritance, Exception Handling, Templates and Working with Files (15 Hours)**
	• Introduction, understanding inheritance, Advantages provided by inheritance, choosing the access specifier, derived class constructors, class hierarchies, inheritance • Introduction, Exception Handling Mechanism, Concept of throw & catch with example • Introduction, Function Template and examples, Class Template and examples. Introduction, File Operations, Various File Modes, File Pointer and their Manipulation

11	**Reference Books:** • **Author:** E. Balagurusamy, **Title:** Object Oriented Programming with C++,**Publisher:** Tata McGraw Hill 9th Edition, **Year:** 2014 • Link: https://e-next.in/bsc-it/sem2/object-oriented-programming/

12	**Internal Continuous Assessment:40%**	**Semester End Examination:60%**
13	**Continuous Evaluation through:**	**Practical Assessment**

14 Format of Question paper:

Scheme of Evaluation Pattern

Table 1A: Scheme of Continuous Evaluation (CE/Practical)

Scheme of Evaluation Pattern

Sub-components	aximum Marks	Conditions for passing
1) Practical exam	30	b) A learner must be present for each of the sub-components.
2) Journal and Viva	10	
Total	40	

Table 1B: Scheme of Semester End Examination (SEE) Evaluation

Question Paper Pattern for Semester End Examination (SEE)

Maximum Marks: 60 **Duration: 2 Hrs.**

Note: All questions are compulsory. Each question has an internal choice.

Question Number		Nature of Questions	Maximum Marks
1)		**Attempt any 3**	
	a)		15
	b)		
	c)		
	d)		
	e)	**Attempt any 3**	
2)			15
	a)		
	b)		
	c)		
	d)		
	e)	**Attempt any 3**	
3)			15
	a)		
	b)		
	c)		
	d)		
	e)	**Attempt any 3**	
4)			15
	a)		
	b)		
	c)		
	d)		
	e)		

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As Per NEP 2020

Tolani College of Commerce (Autonomous)

Knowledge is Supreme

Title of the Course :Data Structures
Programme :B.Sc(Information Technology) Semester-II

Syllabus for 2 credit Course

From the academic year-2024-2025

Sr. No.	Heading	Particulars
1	**Description of the course :**	A data structure is a format for organizing, processing, retrieving and storing data so it can be easily accessed and effectively used. There are various types of data structures in basic and advanced categories that are used in every program or application that is developed.
2	**Vertical :**	Major
3	**Type :**	Theory and Practical
4	**Credit**:	2 credits (1 Credit = Theory and 1 Credit = Project Work)
5	**Hours Allotted :**	30 Hours
6	**Marks Allotted**:	50 Marks Continuous Evaluation =20 Semester End =30
7	**Course Objectives**: **1.**To learn basic techniques of algorithm analysis. **2.** Master the implementation of linked data structures such as linked lists and binary tree.	
8	**Course Outcomes**: **1.** Learners will gain deep understanding after the completion of the course, are expected to Implement abstract data types using arrays and linked list. **2.** Learners will be able to Apply the different linear data structures like Linked list,stack and queue to various computing problems.	

9	
	1. Module 1: Introduction to data structure, Array (15 Hours)
	• Data and Information, Data Structure, Classification of Data Structures, Primitive Data Types, Abstract Data Types, Data structure vs. File Organization, Operations on Data Structure, • Algorithm, Importance of Algorithm Analysis, Complexity of an Algorithm, Asymptotic Analysis and Notations, Big O Notation, Big Omega Notation, Big Theta Notation, Rate of Growth and Big O Notation**.** • Introduction, One Dimensional Array, Memory Representation of One Dimensional Array, Traversing, Insertion, Deletion, Searching, Sorting, Merging of Arrays, Advantages and Limitations of Arrays.
	Module 2: Linked List, Stack and Queue (15 Hours)
	• Linked List, One-way Linked List, Traversal of Linked List, Searching, Memory Allocation and De-allocation, Insertion in • Introduction, Operations on the Stack Memory Representation of Stack, Array Representation of Stack, Applications of Stack. • Introduction, Queue, Operations on the Queue, Memory Representation of Queue, Array representation of queue, Linked List

11	**Reference Books:** • **Author:** Maria Rukadikar, **Title** : Data Structure and Algorithm, **Publisher:** SPD 1st Edition, **Year:** 2017 • https://www.geeksforgeeks.org/data-structures/	
12	**Internal Continuous Assessment: 20%**	**Semester End Examination : 30%**
13	**Continuous Evaluation through:**	Practical Assessment
14		

Scheme of Evaluation Pattern
Table 1A: Scheme of Continuous Evaluation (CE/Practical)
Scheme of Evaluation Pattern

Sub-components	Maximum Marks	Conditions for passing
1) Practical	15	A learner must be present for each of the sub-components.
2) Journal and Viva	5	
Total	20	

Table 1B: Scheme of Semester End Examination (SEE) Evaluation
Question Paper Pattern for Semester End Examination (SEE)
Maximum Marks: 30 **Duration: I Hrs.**
Note: All questions are compulsory. Each question has an internal choice.

Question Number		Nature of Questions	Maximum Marks
1)	**Attempt any 3**		
	a)		15
	b)		
	c)		
	d)		
	e)		
2)	**Attempt any 3**		
	a)		15
	b)		
	c)		
	d)		
	e)		

ANNEXTURE IV

Title of the Course: Introduction to Calculus

Syllabus for Two credit Course-From the Academic Year-2024-2025

Name of the Course: Mathematics Minor: Semester II-Introduction to Calculus

Programmes:

Bachelor of Commerce (Management Studies)
Bachelor of Commerce (Accounting & Finance)
Bachelor of Commerce (Banking & Insurance)
Bachelor of Commerce (Financial Markets)
Bachelor of Science (Information Technology)

Sr. No.	Heading	Particulars
1	**Description of the course**	"Introduction to Calculus" is a foundational course in mathematics that introduces students to the fundamental concepts of calculus, including limits, derivatives, and integrals. It serves as a gateway to higher-level mathematics courses and is essential for understanding various quantitative disciplines such as physics, engineering, economics, and computer science. Industries that heavily rely on quantitative analysis, such as finance, engineering, and data science, have a high demand for individuals proficient in calculus.
2	**Vertical:**	Minor
3	**Type:**	Theory / Practical
4	**Credit**:	2 Credits
5	**Hours Allotted:**	30 Hours
6	**Marks Allotted**:	50 Marks (20 (CE) + 30 (SE)
7	**Course Objectives**: 1. Students should grasp the concept of limits and be able to evaluate limits algebraically and graphically. 2.Students should be able to apply differentiation to solve problems involving optimization, related rates, and curve sketching.	

8	**Course Outcomes**: 1. Students will be able to compute limits of functions, understanding the concept of continuity and its relationship to limits. 2. Students will understand the concepts of sequences and series, including convergence tests for series, Taylor and Maclaurin series, and power series representations of functions.
9	**Modules**:-
	Module 1: Real Numbers and Sequences (15 Hours)
	● The Algebraic and Order properties of R and Well Ordering Principle ● Absolute value and Real line, Absolute Value Functions And Its Properties, Triangle Inequality, Neighborhood Of A Point On The Real Line ● Sequences and their Limits, Definition And Examples Of Sequences Of Real Numbers, Uniqueness Of Limit, Bounded Sequence, Convergent Sequence ● Monotone Sequence, Definition And Examples, Monotone Convergence theorem and examples
	Module 2: Limits and Continuity (15 Hours)
	● Functions and their graphs, Functions, Domain, Range, Graphs representing a function numerically, Vertical line Test ● Increasing and Decreasing functions, Even And Odd Functions with their examples ● Algebra of Limits, One Sided Limit, Infinite Limit ● Continuous functions, Properties of continuous functions on an interval, Boundedness theorem, The Maximum-Minimum theorem
10	**Reference Books:** ● Goldberg, R.R. Methods of Real Analysis. 1976. ● Apostol, T.M. Calculus. Wiley & Sons Pvt Ltd, 1975. ● Ghorpade, J.P., and Limaye. A Course in Calculus and Real Analysis. Springer International Ltd, 2021. ● Kumar, Ajit, and Kumaresan. A Basic Course in Real Analysis. CRC Press, 2014. ● Narayan, Shanti, and Mittal. A Course in Mathematical Analysis. S. Chand and Co, 2005.

11	**Internal Continuous Assessment: 40%**	**Semester End Examination: 60%**
12	**Continuous Evaluation through:**	Assignments and Practical
13	**Format of Question Paper:** Q. 1 Attempt any Three (15 marks) a. b. c. d. Q. 2 Attempt any Three (15 marks) a. b. c. d.	

ANNEXTURE V

Syllabus for Two Credit Course- From the academic year- 2024-2025

Name of the Course: Statistics Minor: Semester II- Descriptive Statistics

Programmes

Bachelor of Commerce (Management Studies)
Bachelor of Commerce (Accounting & Finance)
Bachelor of Commerce (Banking & Insurance)
Bachelor of Commerce (Financial Markets,
Bachelor of Science (Information Technology)

Sr. No.	Heading	Particulars
1	**Description of the course:**	Descriptive statistics is a branch of statistics that involves summarizing and describing data. It focuses on organizing, presenting, and analyzing data sets to uncover patterns, trends, and relationships Descriptive statistics helps in summarizing large amounts of data into manageable and interpretable forms, facilitating data exploration and communication Graduates with expertise in descriptive statistics have various career opportunities in industries such as market research, data analysis, business intelligence, healthcare, finance, and consulting.
2	**Vertical :**	Minor
3	**Type :**	Theory / Practical
4	**Credit**:	2 credits (1 credit = 15 Hours for Theory or 30 Hours of Practical work in a semester)
5	**Hours Allotted :**	30 Hours
6	**Marks Allotted**:	50 Marks (20 (CE) + 30 (SE))
7	**Course Objectives**: **1.** Learn techniques for collecting, organizing, and summarizing data, including methods for data entry, coding, and tabulation **2.** Understand and compute measures of central tendency, including the mean, median, and mode, to describe the central or typical value of a data set	

8	**Course Outcomes**: **1.** Students will be able to collect, organize, and summarize data effectively using appropriate methods and techniques **2.** Students will be proficient in calculating and interpreting measures of central tendency, including the mean, median, and mode, to describe the typical value of a data set	
9	**Modules**:-	
	Module 1: Statistical Survey (15 Hours) ● Introduction, Population , Population Unit, Sample, Sample unit, Parameters and Statistic, Estimators ● Standard Error, Mean Square Error, Census Survey and Sample Survey ● Steps in conducting the Statistical Survey, Personal Survey, Telephonic Survey, Internet Survey And Designing Appropriate Questionnaire ● Types of Questions, Structured, Closed-Ended, Unstructured and Open Ended	
	Module 2: Data Collection and Sampling (15 Hours) ● Types Of Data, Primary and Secondary Data and Methods of Primary Data Collection ● Concept Of Sampling, Sampling with and without Replacement and Lottery Method ● Simple Random Sampling, Estimation Of Population Mean And Variance ● Stratified Sampling, Need Of Stratified Sampling, Advantages Of Stratified Sampling, Expectation and Variance	
10	**Reference Books** ● Murthy, M.N. Sampling Theory and Methods. Statistical Publishing Society, 1967. ● Sukhatme, P.V., and B.V. Sukhatme. Sampling Theory of Surveys with Applications. Iowa State University Press, 1967. ● Singh, D., and F.S. Chaudhary. Theory and Analysis of Sample Survey Designs. Wiley Eastern Ltd, 1986.	
11	**Internal Continuous Assessment: 40%**	**Semester End Examination : 60%**
12	**Continuous Evaluation through:**	**Assignment and Practical**
13	**Format of Question Paper:** Q. 1 Attempt any Three (15 marks) a. b. C. d. Q. 2 Attempt any Three (15 marks) a. b. C. d.	

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Tolani College of Commerce (Autonomous)

Knowledge is Supreme

Title of the Course :Digital Electronics

Programme: B.Sc(Information System) Semester-II

Syllabus for 2 credit Course

From the academic year-2024-2025

Sr. No.	Heading	Particulars
1	**Description of the course :**	Digital electronics is the study of electronic circuits that are used to process and control digital signals.
2	**Vertical :**	Minor
3	**Type :**	Theory and Practical
4	**Credit**:	2 credits (1 Credit = Theory and 1 Credit = Project Work)
5	**Hours Allotted :**	30 Hours
6	**Marks Allotted**:	50 Marks Continuous Evaluation =20 Semester End =30
7	**Course Objectives**: 1. To understand the importance of various number system used in digital circuit, along with Boolean equations related to digital circuit. 2. To understand the role of K map in designing combinational circuits.	
8	**Course Outcomes**: 1. Students will be able to understand and examine the structure of various number systems and its storage and application in computer system. 2. Students will be able to understand, analyses and design various combinational circuits.	

9	
	Module 1: Number System, Binary Arithmetic, Boolean Algebra and Logic Gates (15 Hours)
	• Binary number system, octal number system, hexadecimal number system, conversion from one number system to another, weighted codes binary coded decimal, non-weighted codes Excess – 3 code, Gray code • Binary addition, Binary subtraction, Negative number representation, Subtraction using 1's complement and 2's complement, Binary multiplication and division, Arithmetic in octal number system • Introduction, Logic (AND OR NOT), Boolean theorems, Boolean Laws, De Morgan's Theorem, Perfect Induction, Reduction of Logic expression using Boolean Algebra, Deriving Boolean expression from given circuit, exclusive OR and Exclusive NOR gates, Universal Logic gates, Implementation of other gates using universal gates
	Module 2: Minterm, Maxterm Karnaugh Maps, Combinational Logic Circuits, Multiplexer, Demultiplexer, ALU, Encoder and Decoder (15 Hours)
	• Introduction, minterms and sum of minterm form, maxterm and Product of maxterm form, Reduction technique using Karnaugh maps – 2/3/4 variable K-maps, Grouping of variables in K-maps, K-maps for product of sum form, minimize Boolean expression using K-map and obtain K-map from Boolean expression. • Introduction, Multi-input, multi-output Combinational circuits, Codeconverters design and implementations, Multiplexer, Demultiplexer, Decoder, ALU, Encoders • Introduction, Terminologies used, S-R flip-flop, D flip-fop, JK flip-flop, Race-around condition, Master – slave JK flip-flop, T flip-flop

11	**Reference Books:** • **Author**: **R.P Jain Title :** Modern Digital Electronics **Publisher:** Mc Graw Hill, 5th Edition, **Year:** 2022 • https://e-next.in/bsc-it/sem1/digital-electronics/	
12	**Internal Continuous Assessment: 20%**	**Semester End Examination : 30%**
13	**Continuous Evaluation through:**	Practical Assessment
14	**Format of Question Paper:** **Scheme of Evaluation Pattern** **Table 1A: Scheme of Continuous Evaluation (CE/Practical)** **Scheme of Evaluation Pattern**	

Sub-components	Maximum Marks	Conditions for passing
1) Practical exam	15	A learner must be present for each of the sub-components.
2) Journal and Viva	5	
Total	20	

Table 1B: Scheme of Semester End Examination (SEE) Evaluation
Question Paper Pattern for Semester End Examination (SEE)

Maximum Marks: 30 **Duration: I Hrs.**

Note: All questions are compulsory. Each question has an internal choice.

Question Number		Nature of Questions	Maximum Marks
1)	**Attempt any 3**		
	a)		15
	b)		
	c)		
	d)		
	e)		
2)	**Attempt any 3**		
	a)		15
	b)		
	c)		
	d)		
	e)		

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ITEM NO

As Per NEP 2020

Tolani College of Commerce (Autonomous)

Title of the Course: Fraud Detection: Investigation and Prevention
Programmes: Bachelor of Commerce (Management Studies)/Bachelor of Commerce (Accounting and Finance)/Bachelor of Commerce (Banking and Insurance)/Bachelor of Commerce (Financial Markets)/ Bachelor of Science (Information Technology)

Semester: II

Syllabus for 4 Credit Course
From the academic year: 2024-2025

Name of the Course: Fraud Detection: Investigation and Prevention

Sr. No.	Heading	Particulars
1	**Description of the course:**	Any organization's ability to succeed and endure depends on its robust governance framework, culture of compliance, internal controls, and associated systems and procedures. The board of directors and senior management provide strategic direction to an organization in order to help it achieve its goals, which include maximising stakeholders' wealth. Employers and other resources are necessary for organizations to meet their targets and goals. The staff members belong to distinct tiers of the hierarchy, including upper, medium, and lower management. In order to manage the business's operations, these staff members must adhere to policies and procedures and be given a variety of physical resources. There may be fraudsters or crooks among the staff as well as outside the corporation who take advantage of the resources of the company. These actions are regarded as fraudulent. The goal of fraud investigations is to determine what actions were taken, by whom, and how. Not only is there a chance of not being able to recover losses if an inquiry is done poorly. There's also a chance of fines, legal bills, and reputational harm. Fraud investigations are comprehensive, quick, accurate, and compliant when these skills and information are applied.
2	**Vertical:**	Open Elective
3	**Type:**	Theory
4	**Credit**:	4 Credits
5	**Hours Allotted:**	60 Hours
6	**Marks Allotted**:	100 Marks Continuous Evaluation: 40 Semester-End: 60
7	**Learning Objectives** • Gain relevant knowledge regarding fraud, including its types, fraudsters, detection, cost, deterrence, and investigation methods • Learn what constitutes fraud and become familiar with instances of it, such as payroll fraud, false invoicing, and theft of property, inventory, or cash.	

	• Acquire knowledge of the many essential ideas surrounding the process of investigating fraud and fraud detection. • The numerous methods employed in the inquiry and making aware of every step of the fraud investigation process.
8	**Learning Outcomes** **Enables the learners to** • Acquire relevant knowledge about organizational fraud detection as well as fraud investigation. • Understand fraud, types of frauds, fraud deterrence, • Understand fraud detection, fraud investigations process. • Understand fraud investigation conclusion, and fraud investigation reporting.

9	**Syllabus**
	Module.1. Understanding Fraud, Fraudsters (15 Hours)
	• What is Fraud? • What is the Scale of the Problem? • Why Does it Matter to Understand Fraudsters? • The Fraud Triangle – The Key Behavioral Mode • Motives of Fraudsters – Bringing the Fraud • Triangle Up to Date
	Module.2. Fraudulent Behavior and Types of Fraud (15 Hours)
	• Fraudulent behaviour • Classification of Fraudsters • Profile of a Fraudster • Motives of Fraudsters – The Business • Perspective • Types of Fraud
	Module.3. Fraud Identification and Detection (15 Marks)
	• The Deterrence Factor • Fraud Detection • Methods of Fraud Detection • Fraud Indicators • The Role of Internal Audit and External Audit • The Fraud Investigation Process
	Module.4. Fraud Investigation Process and Techniques (15 Hours)
	• The Fraud Investigation Process • Handling Initial Allegations or Indicia for Fraud • Designing and Planning of the Fraud • Investigation and Gathering of Evidence • Evidence Review

- Fraud Investigation and Investigative Tools

10 References

i. **CA Virendra K. Pamecha.** How To Detect & Investigate - Financial Frauds & Accounting Gimmicks Along with Professional Opportunities in Fraud Avoidance & Investigation published by Xcess Infostore Private Limited. ISBN-13 978-8194522188.

ii. **Charles E. Piper**. Contract and Procurement Fraud Investigation Guidebook published by Routledge Taylor and Francis Group. ISBN-13 978-1138044982.

iii. Stamler Rodney T., Marschdorf Hans J and Possamai Mario. Fraud Prevention and Detection published by Taylor & Francis Ltd. ISBN: 9780367867324, 9780367867324.

iv. **Sunder Gee**. Fraud and Fraud Detection: A Data Analytics Approach by. Published by Wiley Online Library. Print ISBN:9781118779651 |Online ISBN:9781118936764.

11 **Internal Continuous Assessment: 40%** | **Semester End Examination: 60%**

12 **Continuous Evaluation through:**

Sub-components	Maximum Marks	Conditions for passing
1) 1st Project/ Report work	10	a) A learner must be present for each of the sub-components.
2) 2nd Project/ Report work	10	
3) Case Study analyses in the classroom	10	
4) 10 Objective Questions (1 MCQ of 1 mark each)	10	
Total	40	

13 **Format of question paper**

Maximum Marks: 60 Duration: 2 Hour.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	(From Module I) a. Theory (08 Marks) b. Theory (07 Marks) OR c. Theory (08 Marks) d. Theory (07 Marks)	15 Marks
Q-2	(From Module II) a. Theory (08 Marks) b. Theory (07 Marks) OR c. Theory (08 Marks) d. Theory (07 Marks)	15 Marks
Q-3	(From Module III) a. Theory (08 Marks) b. Theory (07 Marks) OR c. Theory (08 Marks) d. Theory (07 Marks)	15 Marks

	Q-4	(From Module IV) a. Theory (08 Marks) b. Theory (07 Marks) OR c. Theory (08 Marks) d. Theory (07 Marks)	15 Marks	

Signature/s of Team Member/s

Sr.No	Name	Signature
1.	Dr. Hema Mehta	

As Per NEP 2020

Tolani College of Commerce (Autonomous)

Title of the Course: Wonders of the Living World- II (Animals)

Name of the Programmes:

1. Bachelor of Commerce (Management Studies)
2. Bachelor of Commerce (Accountancy & Finance)
3. Bachelor of Commerce (Banking & Insurance)
4. Bachelor of Commerce (Financial Markets)
5. Bachelor of Science (Information Technology)

Semester II

Syllabus for 4 Credit Course

From the academic year- 2024-2025

Name of the Course: Wonder of the Living World- II (Animals)

Sr. No.	Heading	Particulars
1	**Description the course:**	The course is an introductory to the world of animals. It the offer insights into the evolution, classification as well as behavior of animals. It also discusses the role of animals in ecosystem.
2	**Vertical:**	Open Electives
3	**Type:**	Theory
4	**Credit**:	4 credits
5	**Hours Allotted:**	60 Hours
6	**Marks Allotted**:	100 Marks Continuous Evaluation 40 Marks Semester End Examination 60 Marks
7	**Course Objectives**: By end of this course learners should be: 1. introduced to the world of animals 2. able to understand the behavior traits of animals 3. able to understand adaptations in animals 4. able to understand the role of animals in environment	
8	**Course Outcomes**: The learners shall be able to: 1. Understand the evolution of animals 2. appreciate the intelligence in animals 3. appreciate the survival instincts in animals 4. appreciate the role of animals as indicator species	

9	**Module 1: Introduction to the world of animals (15 Hours)**
	1. **Know the animals:** Definition, Characteristics, Evolution 2. **Animal Classification:** Seven Phyllum; Class-level classification of Phyllum Chordata; Concept of Genus and species 3. **Animal Procreation:** Need for procreation; Sexual and Asexual reproduction, Vivipary and Ovipary
	Module 2: Animal behaviour (15 Hours)
	1. **Courtship:** Definition; Forms/ Types of courtship behaviours- Songs, Plumages, Display of body part, Ornamentation, Structures 2. **Animal migration:** Definition; Reasons for migration; Cues for migration; Migration Corridors; 3. **Animal Architecture:** Definition; Reasons for building shelter- Resting, Nesting, Social animal like ants, termites, bees and wasp
	Module 3: Adaptations in animals (15 Hours)
	1. **Adaptations for extreme conditions:** Heat and Cold; Depth, Speed, Flight, Swimming 2. **Camouflage:** Definition; Need for camouflage; Types of camouflage- concealing coloration, disruptive coloration, disguise and mimicry 3. **Specialised adaptation:** Echolocation, Electric discharge, Sensory organs, Magnetic sense
	Module 4: Role of animals (15 Hours)
	1. **Animal associations:** Definition; Types- Symbiosis, Parasitism, Mutualism, Competition, Commensalism, Predation 2. **Animal as indicators:** Water quality; Climate change, Environmental degradation 3. **Animal biogeography:** Definition; Concept of biomes; Endemic, Native and Invasive animals
10	**Reference Books:** 1. Alcock J. 2013. Animal Behaviour, Sinauer Associate Inc., USA. 2. Barnes R. S. K. - The Diversity of Living Organisms; Blackwell Science 3. Chaki K C; Kundu G & Sarkar S. - Introduction to General Zoology (Vol. 1), NCBA, Kolkata 4. Chattopadhyay S. 2012. Life: Evolution, Adaptation, Ethology. 3rd Edn. Books and Allied, Kolkata. 5. Cunningham, W.P., Cooper, T.H., Gorhani, E and Hepworth, M.T. 2001. Environmental Encyclopedia, Jaico Publ. House, Mumbai, 1196p. 6. Darlington PJ. The Geographical Distribution of Animals, R.E. Krieger Pub Co 7. Drickamer LC, Vessey SH. 2001. Animal Behaviour. McGraw-Hill 8. Dujatkin LA. 2014. Principles of Animal Behaviour. 3rd Edn. W.W.Norton and Co. 9. Freedman B. 1989. Environmental Ecology. Academic press, Inc 10. Hyman LH. 1951. The Invertebrates (Vol-I). Mc.Graw Hill Book Company. 11. Jordan EL,Verma PS. 2006. Invertebrate Zoology. S. Chand & Com. New Delhi. 12. Sinha KS, Adhikari S, Ganguly BB. 2001. Biology of Animals. Vol. II. NCBA 13. Young JZ. 2004. The Life of Vertebrates. III Edition. Oxford University press

11	**Other Readings:** 1. Erach Bharucha. 2005. Text book of Environmental Studies for undergraduate courses, University Grants Commission, New Delhi 2. https://www.sciencedirect.com/science/article/pii/S0960982221013506 3. https://www.smithsonianmag.com/science-nature/the-top-10-greatest-survivors-of-evolution-118143319/ 4. https://www.newscientist.com/article/dn17453-timeline-the-evolution-of-life/
12	**Websites:** 1. https://education.nationalgeographic.org/resource/migration/ 2. https://education.nationalgeographic.org/resource/natures-most-impressive-animal-migrations/ 3. https://www.nature.com/scitable/knowledge/library/animal-migration-13259533/ 4. https://zsi.gov.in/ 5. https://wii.gov.in/ 6. https://naturalhistory.si.edu/education/teaching-resources/life-science/explore-animal-adaptations 7. https://www.audubon.org/ 8. https://sci.waikato.ac.nz/evolution/AnimalEvolution.shtml 9. https://naturalhistory.si.edu/education/teaching-resources/life-science/early-life-earth-animal-origins 10. https://www.sciencefocus.com/nature/animal-architects

13	**Internal Continuous Assessment: 40%**	**Semester End Examination : 60%**	
14	**Continuous Evaluation through:**	1. Fieldwork-based project work and report or assignment or presentation or report-writing or article/ book review or topic-based activity	15 marks
		2. Fieldwork-based project work and report or assignment or presentation or report-writing or article/ book review or topic-based activity	15 marks
		3. MCQ Based Test	10 marks
		Total	40 marks

15 **Format of Question Paper:**

Question Number		Nature of Questions	Maximum Marks
1)		Attempt any THREE of the following: (From Module I)	15
	A.		
	B.		
	C.		
	D.		
2)		Attempt any THREE of the following: (From Module II)	15
	A.		
	B.		
	C.		
	D.		
3)	A.	Attempt any THREE of the following: (From Module III)	15
	B.		
	C.		
	D.		
4)	A.	Attempt any THREE of the following: (From Module IV)	15
	B.		
	C.		
	D.		

Signatures of Team Members

Sr.No	Name	Signature
1.	Mr. Kaustubh Bhagat	

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Item No. –

As Per NEP 2020

Tolani College of Commerce (Autonomous)

विद्या परम दैवतम्।

Knowledge is Supreme

Title of the Course: Introduction to Modern American Literature (Semester II)

Programmes:

Bachelor of Commerce (Management Studies)
Bachelor of Commerce (Accounting & Finance)
Bachelor of Commerce (Banking & Insurance)
Bachelor of Commerce (Financial Markets)
Bachelor of Science (Information Technology)

Syllabus for 4 Credit Course from the Academic Year 2024-2025

Name of the Course: Introduction to Modern American Literature

Sr. No.	Heading	Particulars
1	**Description of the course :** **Including but not limited to :**	This course immerses students in Modern American Literature, acquainting them with pivotal works of the era. Building skills in identifying, understanding, and analysing written works of American authors.
2	**Vertical :**	Open Elective
3	**Type :**	Theory
4	**Credit**:	4 credits
5	**Hours Allotted :**	60 Hours
6	**Marks Allotted**:	100 Marks Continuous Evaluation 40 marks and Semester End Examination 60 marks
7	**Course Objectives:** 1. To recognize and define basic literary terms employed in modern American literature 2. To understand key literary concepts and interpret American literary works. 3. To explore literary works in American literature, and understand literary evolution. 4. To foster an appreciation for reading as a pleasurable and enriching activity.	
8	**Course Outcomes**: 1. Ability to recognize and articulate basic literary terms commonly used in Modern American literature, enabling effective engagement with literary texts. 2. Understand fundamental literary concepts and increase comprehension. 3. Develop an awareness of the evolution of American literature 4. Ability to engage in conversation through sustainable reading habits.	

9	**Module 1: Introduction to Modern American Literature (15 Hours)**
	Introduction to Literature and Literary Terms: ▸ Key concepts and literary terms in Modern American Literature. ▸ Characteristics of modernism in American literature. ▸ Basic literary terms relevant to the understanding of American literature.
	Module 2: Early 20th Century and the Jazz Age (15 Hours)
	Exploring Cultural Dynamism ▸ Overview of the cultural and literary landscape of the early 20th century ▸ F Scott Fitzgerald's "The Great Gatsby" ▸ Harper Lee's "To Kill a Mockingbird"
	Module 3: Post-War Realities: Reflections in American Fiction & Drama (15 Hours)
	Post-War Fiction and Drama: ▸ Overview: Understand the shifts in American literature post-World War II. ▸ J.D. Salinger's "The Catcher in the Rye". ▸ Arthur Miller's "Death of a Salesman".
	Module 4: Trends and Voices in Modern American Literature (15 Hours)
	Contemporary Literature: ▸ Evolving Narratives in a Shifting World ▸ Mario Puzo's "The Godfather" ▸ Stephen King "The Shining"
10	**Secondary Reading List:** ● "The Adventures of Tom Sawyer" by Mark Twain ● "Gone with the Wind" by Margaret Mitchell ● "Moby-Dick" by Herman Melville ● "The Bell Jar" by Sylvia Plath ● "The Fault in Our Stars" by John Green ● "If Tomorrow Comes" by Sidney Sheldon ● "Eat, Pray, Love" by Elizabeth Gilbert ● "I Know Why the Caged Bird Sings" by Maya Angelou ● "Dracula" by Bram Stoker ● "The Perks of Being a Wallflower" by Stephen Chbosky ● "The Handmaid's Tale" by Margaret Atwood ● "A Game of Thrones" by George R.R. Martin ● Sidney Sheldon's "Master of the Game"

<table>
<tr><td>11</td><td colspan="2">Internal Continuous Assessment: 40%</td><td colspan="2">Semester End Examination: 60%</td></tr>
<tr><td>12</td><td colspan="2">Continuous Evaluation through:
(40 marks)</td><td>1) Class Plays, Readers Discussion, Critical Analysis Essay, Book Review (30 marks)
2) MCQ Based Test (10 marks)</td><td>A learner must be present for each of the sub-components</td></tr>
<tr><td>13</td><td colspan="4">Format of SEE Question Paper: (60 marks)</td></tr>
<tr><td></td><td>Question No.</td><td colspan="2">Nature of Question</td><td>Maximum Marks</td></tr>
<tr><td></td><td>Q-1</td><td colspan="2">Answer in Detail: (attempt any 3 of 4)
a)
b)
c)
d)</td><td>15 Marks</td></tr>
<tr><td></td><td>Q-2</td><td colspan="2">Answer in Detail: (attempt any 3 of 4)
a)
b)
c)
d)</td><td>15 Marks</td></tr>
<tr><td></td><td>Q-3</td><td colspan="2">Answer in Detail: (attempt any 3 of 4)
a)
b)
c)
d)</td><td>15 Marks</td></tr>
<tr><td></td><td>Q-4</td><td colspan="2">Answer in Detail: (attempt any 3 of 4)
a)
b)
c)
d)</td><td>15 Marks</td></tr>
</table>

Signatures of Team Members

Sr.No.	Name	Signature
1.	Ms. Amrita Nambiar	
2.	Ms. Jacinta Ashita Tigga	

AC –
Item No. –

As Per NEP 2020

Tolani College of Commerce (Autonomous)

Knowledge is Supreme

Title of the Course: Web Programming

Programme: B.Sc(Information Technology) Semester II

Syllabus for 2 credits Course

From the academic year- 2024-2025

Sr. No.	Heading	Particulars
1	**Description Of the course :**	The course covers basic construction of web page, cascading style sheet, and java script. The course provides a foundation in computer programming in Javascript.
2	**Vertical:**	Vocational Skill Course
3	**Type:**	Theory and Practical
4	**Credit**:	2 credits (1 Credit = Theory and 1 Credit = Project Work)
5	**Hours Allotted:**	30 Hours
6	**Marks Allotted**:	50 Marks Continuous Evaluation: 20 Marks Semester-End: 30 Marks
7	**Course Objectives**: **1.** To learn HTML tag sand JavaScript Language programming concept sand techniques. **2.**PHPintroductionandcompatibilitywithHTMLandJavascript	
8	**Course Outcomes**: **1.**Developafullyfunctioningstaticwebsiteanddeployonawebserver **2.**Developand deploy web sites using PHP	

9	**Module1: HTML5 and Java Script (15 Hours)**
	• Introduction, Why HTML5? Formatting text by using tags, using lists and backgrounds, Creating hyperlinks and anchors.Creating navigational aids: planning site organization, creating text based navigation bar, creating graphical navigation bar, creating image map, creatingdivisions, creating HTML5 semantic layout. • Introduction, Client-Side JavaScript, Server-Side JavaScript, JavaScript Objects, JavaScript Security, Operators, Statements. Loop, Functions Advance JavaScript (Properties and Methods of Each) : regular Expression and Events and Event Handlers, Events, Defining Event Handlers.
	Module2: PHP, Advanced PHP and MySQL (15 Hours)
	• Why PHP and MySQL? Server-side scripting, PHP syntax and variables, comments, types, control structures, branching, looping, termination, functions, passing information with PHP, GET, POST, formatting form variables, superglobal arrays, strings and string functions, regular expressions, arrays, number handling, basic PHP errors/problems. • PHP/MySQL Functions, Integrating web forms and databases, Displaying queries in tables, Building Forms from queries, String and Regular Expressions, Sessions, Cookies and HTTP, E-Mail.

11	**Reference Books:** • **Author:** Sharanam Shah, **Title:** PHP Project for Beginners , **Publisher:** SPD 2ND Edition, **Year:** 2015 • Link: https://e-next.in/bsc-it/sem2/web-programming/	
12	**Internal Continuous Assessment:20%**	**Semester End Examination:30%**
13	**Continuous Evaluation through:**	**Practical Assessment**
14	**Format of Question Paper:**	

Scheme of Evaluation Pattern

Table 1A: Scheme of Continuous Evaluation (CE/Practical)

Scheme of Evaluation Pattern

Sub-components	Maximum Marks	Conditions for passing
1) Practical exam	15	A learner must be present for each of the sub-components.
2) Journal and Viva	5	
Total	20	

Table 1B: Scheme of Semester End Examination (SEE) Evaluation
Question Paper Pattern for Semester End Examination (SEE)

Maximum Marks: 30 **Duration: I Hrs.**

Note: All questions are compulsory. Each question has an internal choice.

Question Number		Nature of Questions	Maximum Marks
1)	**Attempt any 3**		
	a)		15
	b)		
	c)		
	d)		
	e)		
2)	**Attempt any 3**		
	a)		15
	b)		
	c)		
	d)		
	e)		

Signatures of Team Members

Sr.No	Name	Signature
1.	Ms. Bandita Singh	
2.	Mr. Deepak Sharma	
3.	Ms. Sabiha Malik	
4.	Ms. Shraddha Parab	
5.	Ms. Vibhuti Barad	

AC –
Item No. –

As Per NEP 2020

Tolani College of Commerce (Autonomous)

Title of the Course: <u>Operating Systems</u>

Programme: B.Sc(Information Technology) Semester 2

Syllabus for 2 credit Course

From the academic year- 2024-2025

Sr. No.	Heading	Particulars
1	**Description of the course :**	Operating systems (OS) provide the crucial interface between a computer's hardware and the applications that run on it. It allows us to write programs without bothering much about the hardware. It also ensures that the computer's resources such as its CPU, hard disk, and memory, are appropriately utilized.
2	**Vertical :**	Skill Enhancement Course
3	**Type :**	Theory and Practical
4	**Credit**:	2 credits (1 Credit = Theory and 1 Credit = Project Work)
5	**Hours Allotted :**	30 Hours
6	**Marks Allotted**:	50 Marks Continuous Evaluation: 20 Semester-End: 30
7	**Course Objectives**: **1.** To learn different process scheduling algorithms and synchronization techniques to achieve better performance of a computer system. **2.** To know virtual memory concepts.	
8	**Course Outcomes**: **1.** Learners will gain deep understanding of the fundamental concepts of operating system, including memory management, file systems and I/O systems. **2.** Learners will be able to analyze how multi programming is handled.	

9	**Module 1: Introduction to operating systems, Processes and Threads, Memory Management (15 Hours)**
	• What is an operating system? History of operating system, computer hardware, different operating systems, operating system concepts, system calls, operating system structure. • Processes, threads, interprocess communication, scheduling, IPC Problems. • No memory abstraction, memory abstraction: address spaces, virtual memory, page replacement algorithms, implementation issues, segmentation.
	Module 2: Virtualization and Cloud, File Systems and Case Study on Linux and Android. (15 Hours)
	• History, requirements for virtualization, type 1 and 2 hypervisors, techniques for efficient virtualization, hypervisor microkernels, memory virtualization, Virtual appliances, Clouds. • Files, directories, file system implementation, file-system management and optimization, MS-DOS file system • History of Unix and Linux, Linux Overview, Processes in Linux, Memory management in Linux, I/O in Linux, Linux file system, security in Linux. Android

10	**Reference Books:** • **Author:** Christopher Negus, **Title** : Linux Bible, **Publisher:** Willy 10th Edition, **Year:** 2015 • https://e-next.in/bsc-it/sem1/operating-systems/	
11	**Internal Continuous Assessment: 20%**	**Semester End Examination : 30%**
12	**Continuous Evaluation through:**	Practical Assessment
13	**Scheme of Evaluation Pattern** **Table 1A: Scheme of Continuous Evaluation (CE/Practical)** **Scheme of Evaluation Pattern**	

Sub-components	Maximum Marks	Conditions for passing
1) Practical assessment	15	A learner must be present for each of the sub-components.
2) Journal and Viva	5	
Total	20	

Table 1B: Scheme of Semester End Examination (SEE) Evaluation

Question Paper Pattern for Semester End Examination (SEE)

Maximum Marks: 30 **Duration: I Hrs.**

Note: All questions are compulsory. Each question has an internal choice.

Question Number		Nature of Questions	Maximum Marks
1)	**Attempt any 3**		
	a)		15
	b)		
	c)		
	d)		
	e)		
2)	**Attempt any 3**		
	a)		15
	b)		
	c)		
	d)		
	e)		

AC –

Item No. –

As Per NEP 2020

Tolani College of Commerce (Autonomous)

Knowledge is Supreme

Title of the Course: Communication Skills in English - II (Semester II)

Programmes:

Bachelor of Commerce
Bachelor of Commerce (Management Studies)
Bachelor of Commerce (Accounting & Finance)
Bachelor of Commerce (Banking & Insurance)
Bachelor of Commerce (Financial Markets)
Bachelor of Science (Information Technology)
Bachelor of Business Administration (Logistics)

Syllabus for 2 Credit Course from the Academic Year 2024-2025

Name of the Course: Communication Skills in English - II

Sr. No.	Heading	Particulars
1	**Description of the course :** **Including but Not limited to :**	This course cultivates English Communication dexterity spanning interview dynamics, meeting essentials, and varied business correspondence. Constructive professional discussions and proficiency in crafting impactful documents, essential for success in the professional arena.
2	**Vertical :**	Ability Enhancement Course
3	**Type :**	Theory
4	**Credit**:	2 credits
5	**Hours Allotted :**	30 Hours
6	**Marks Allotted**:	50 Marks Continuous Evaluation 20 marks and Semester End Examination 30 marks
7	**Course Objectives:** 1. To introduce learners to types of interviews and the dynamics of meetings. 2. To familiarize learners with diverse types of business correspondence and to instill the essential speaking and writing skills required for successful professional life.	
8	**Course Outcomes**: 1. Ability to understand the principles and strategies of effective communication and contribute constructively to professional discussions. 2. Ability to demonstrate proficiency in crafting and interpreting different business correspondence formats for successful engagement in the professional realm.	

9	**Module 1: Corporate Dynamics (15 Hours)**
	1. Interviews: ▸ Preparing for an Interview - Interviewer and Interviewee ▸ Types of Interviews - Selection, Appraisal, Grievance, Exit, Online
	2. Meetings: ▸ Need and Importance of Meetings ▸ Role of the Chairperson and Participants
	3. Effective Document Management and Communication: ▸ Summarisation of documents ▸ Drafting of Notice, Agenda & Resolutions
	Module 2: Business Correspondence (15 Hours)
	1. Reports and Business Proposals: ▸ Drafting Investigative Reports ▸ Drafting Business Proposals
	2. Trade Letters: ▸ Letters of Inquiry ▸ Letters of Complaints, Claims, Adjustments
	3. Email Correspondence: ▸ Email as channel for formal correspondence ▸ Sales letter via Emails
10	**Reference Books:** ● Gupta, Anand Das. Ethics, Business and Society: Managing Responsibly. 2010. ● Kamin, Maxine. Soft Skills Revolution: A Guide to Connecting with Compassion for Trainers, Teams, and Leaders. 2013 ● Lesiker, Flatley, Rentz, Lentz, and Pande. Business Communication: Connecting in a Digital World. 13th edn., 2015. ● Luck, Susan L. Zen and the Art of Business Communication: A Step-by-Step Guide to Improving Your Business Writing Skills. 2016. ● Adler, Ronald B., Jeanne Marquardt Elmhorst, and Kristen Lucas. Communication at Work: Principles and Practices for Business and the Professions. 12th ed., McGraw-Hill Education, 2017. ● Roberts, Tim, and Tony Alessandra. The New Art of Managing People. 2016

<table>
<tr><td>11</td><td colspan="2">Internal Continuous Assessment: 40%</td><td colspan="2">Semester End Examination : 60%</td></tr>
<tr><td>12</td><td colspan="2">Continuous Evaluation through:
(20 marks)</td><td>1) Mock Interviews/ Extempore/ Drafting Notice, Agenda & Resolutions
(10 marks)
2) MCQs Based Test
(10 marks)</td><td>A learner must be present for each of the sub-componen ts</td></tr>
<tr><td>13</td><td colspan="4">Format of SEE Question Paper: (30 marks)
<table>
<tr><th>Question No.</th><th>Nature of Question</th><th>Maximum Marks</th></tr>
<tr><td>Q-1</td><td>Short notes: (attempt any 2 of 4)
a)
b)
c)
d)</td><td>10 Marks</td></tr>
<tr><td>Q-2</td><td>Draft the following: (attempt any 2 of 3)
a) Letter of Inquiry
b) Letter of Complaint/Claim/Adjustment
c) Sales/Promotional Letter</td><td>10 Marks</td></tr>
<tr><td>Q-3</td><td>a) Draft a Business Report/Business Proposal
Or
a) Case Study
b) Summarization</td><td>10 Marks

5 marks
5 marks</td></tr>
</table></td></tr>
</table>

Signatures of Team Members

Sr.No.	Name	Signature
1.	Ms. Amrita Nambiar	
2.	Ms. Jacinta Ashita Tigga	

Approved by the Academic Council on 14-3-26 item no.
Approved by the BoS in Environmental Studies and Foundation Course on 5-3-26 item no. 02

As Per NEP 2020

Tolani College of Commerce (Autonomous)

Title of the Course: Environmental Studies- II

Name of the Programmes:

1. Bachelor of Commerce
2. Bachelor of Commerce (Management Studies)
3. Bachelor of Commerce (Accounting & Finance)
4. Bachelor of Commerce (Banking & Insurance)
5. Bachelor of Commerce (Financial Markets)
6. Bachelor of Commerce (Logistics)
7. Bachelor of Commerce (Taxation and Auditing)
8. Bachelor of Science (Information Technology)
9. Bachelor of Science (Data Science)

Semester II

Syllabus for 2 Credit Course

From the academic year- 2026-2027

Name of the Course: Environmental Studies- II

Sr. No.	Heading	Particulars
1	**Description the course:**	The course is an introductory inter-disciplinary course to understand impacts of human actions on environment. It is an attempt to understand the future impacts by learning from the past and present actions.
2	**Vertical:**	Value Education System
3	**Type:**	Theory
4	**Credit**:	2 credits
5	**Hours Allotted:**	30 Hours
6	**Marks Allotted**:	50 Marks Continuous Evaluation 20 Marks Semester End Examination 30 Marks
7	**Course Objectives**: By end of this course learners should be: 1. aware about the human interventions for environment protection 2. familiar with the mechanisms for environmental protection in India	
8	**Course Outcomes**: The learners shall be able to: 1. hold a rational attitude towards sustainable development 2. a develop a sense of environmental responsibility	

9	**Module 1: Sustainable Development and Way forward (15 Hours)**
	1. **Sustainable Development:** Definition, Need, Importance of Sustainable Development; Origin and Evolution of Sustainable Development Goals (SDGs) 2. **Environmental Management:** Need, Importance and Relevance, ISO 14000, Carbon Banks and Carbon Credits; Corporate Social Responsibility: Concept, Need and Importance 3. **Disaster Management:** Definition; Types of disasters; Effects of disaster; Factors to be considered in Prevention, Mitigation (Relief and Rehabilitation) and disaster Preparedness. 4. **Environment Education:** Definition, Scope, Importance, Principles, Methods, Concept of Education for Sustainable Development
	Module 2: Environment Protection in India (15 Hours)
	1. **Environmental Movements in India:** Chipko Movement, Appiko Movement, Save Narmada Movement, Save Western Ghat, Save Jaitapur and Save Aarey 2. **Environmental Laws in India:** Constitutional Provisions for environment protection; Law-Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, Wildlife Protection Act, 1972, Forest Conservation Act, 1980, Environmental Protection Act, 1986 3. **Protected Areas in India:** Definition and concept, Importance, Types of Protected Areas, Some of Protected Areas in India, Protected Areas Network 4. **Conservation Initiatives in India:** Concept, Need of conservation; Institutions and NGOs in the field of conservation India; Conservation initiative in India- National Solar Mission, Project Tiger, Project Elephant, Project Vulture, Project Cheetah, Project Mahseer, Project Bustard
10	**Reference Books:** 1. Gleick, H.P. 1993. Water in crisis, Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute Oxford Univ. Press. 473p 2. McKinney M.L. & Schoch R.M., 1998: Environmental Science, Jones & Bartlett Publishers, London 3. Miller T.G. Jr. Environmental Science, Wadsworth Publishing Co. 4. Murthy, D. B. N., Disaster Management: Text and Case Studies, Deep and Deep 5. Negi S.S. (1993) Biodiversity and its Conservation in India, Indus Publications, New Delhi 6. Odum E.P. (1971): Fundamentals of Ecology, W.B. Saunders, Philadelphia 7. Parsuraman, S., and Unnikrishnan, ed., India Disasters Report II, Oxford, New Delhi, 2013 8. Publications, New Delhi, 2013. 9. Rajgopalan C (2015): Environmental Studies. Oxford University Press 10. Rao K.L. 1975: India's Water Wealth, Orient Longman Ltd. New Delhi 11. Reza, B. K., Disaster Management, Global Publications, New Delhi, 2010.
11	**Other Readings:** 1. Down to Earth, Centre for Science and Environment 2. Human Development Report 2020 "The next frontier Human development and the Anthropocene", United Nations Development Programme (eISBN: 978-92-1-005516-1) 412 p.p http://hdr.undp.org/en/2020-report

12	**Websites:** 1. https://unfccc.int/ 2. https://www.cbd.int/ 3. https://cpcb.nic.in 4. https://mpcb.gov.in 5. https://shoalconservation.org/project/project-mahseer/ 6. https://www.wwfindia.org/ 7. https://www.bnhs.org/ 8. https://www.iucnredlist.org/ 9. https://wii.gov.in/

13	**Internal Continuous Assessment: 40%**	**Semester End Examination: 60%**	
14	**Continuous Evaluation through:**	1. Fieldwork-based project work and report or assignment or presentation or report-writing or article/ book review or topic-based activity	10 marks
		2. Class Test	10 marks
		Total	20 marks

15 **Format of Question Paper:**

Question Number		Nature of Questions	Maximum Marks
1)		Attempt any THREE of the following: (From Module I)	15
	A.		
	B.		
	C.		
	D.		
2)		Attempt any THREE of the following: (From Module II)	15
	A.		
	B.		
	C.		
	D.		

Signatures of Team Members

Sr. No.	Name	Signature
1.	Mr. Kaustubh Bhagat	

AC –
Item No. –

As Per NEP 2020

Tolani College of Commerce (Autonomous)

Knowledge is Supreme

Title of the Course: Fundamentals of Human Skills Semester II

	Programmes:
1	Bachelor of Commerce (B.Com)
2	B.Com in Accounting and Finance (BAF)
3	B.Com in Banking and Insurance (BBI)
4	B.Com in Financial Markets (BFM)
5	Bachelor of Science in Information Technology (B.Sc.IT)

Syllabus for 2 credits

From the academic year-2024-2025

Name of the Course: Fundamentals of Human Skills

Sr. No.	Heading	Particulars
1	**Description the course :**	Learners will acquire the essential abilities needed to thrive in various personal and professional contexts. These skills enable individuals to communicate effectively, collaborate with others, manage their emotions and relationships, and adapt to changing situations. Understanding human skills helps people confidently handle social interactions, form strong connections with others, and reach their goals faster and more effectively.
2	**Vertical :**	Core Course
3	**Type :**	Theory
4	**Credit**:	2 credits
5	**Hours Allotted :**	30 Hours
6	**Marks Allotted**:	50 Marks Continuous Evaluation 20 Marks Semester End Examination 30 Marks
7	**Course Objectives**: **1.** To comprehend the concept of individual behavior, personality and attitude, Johari window, perception and team effectiveness. **2.** To explore organizational culture, Motivation at workplace and Organizational Stress.	

8	**Course Outcomes**: **1.** Learners will be able to understand the factors contributing to individual differences, personality and attitude, Johari window, perception and team effectiveness. **2.** Learners will acquire knowledge of organizational culture, workplace motivation, and organizational stress.

9	
	Module: 1 Understanding of Human Nature and Group Behaviour (15 Hours)
	• **Individual Behaviour:** Concept of a human, individual differences, factors affecting individual differences and Influence of environment. • **Personality and attitude:** Determinants of personality, Personality traits theory, Big five model, Personality traits important for organizational behaviour like authoritarianism, locus of control, Machiavellianism, introversion-extroversion achievement orientation, self – esteem, risk taking, self-monitoring and type A and B personalities**,** Concept of understanding self through Johari Window. • **Perceptions:** Introduction, Definitions, Determinants of Perception, Errors in Perception, Perception and its Impact on Organizations.Group Dynamics: Nature, types, group behaviour model (roles, norms, status, process, structures). Team effectiveness: nature, types of teams and ways of forming an effective team. Setting goals. Organizational processes and system.
	Module 2: Organizational Culture , Motivation and Organizational Stress (15 Hours)
	• **Organizational Culture:** Characteristics of organizational culture. Types, functions and barriers of organizational culture and ways of creating and maintaining effective organization culture. • **Motivation at workplace:** Concept of motivation Theories of motivation in an organisational set up. A.Maslow Need Heirachy, F.Hertzberg Dual Factor, Mc.Gregor theory X and theory Y. Ways of motivating through carrot (positive reinforcement) and stick (negative reinforcement) at workplace. • **Organizational Stress:** Introduction, Definition, The Nature of Stress, The Effects of Stress , Causes of Stress and Stress Management.

10 **References:**

- John W.Newstrom and Keith Davis, Organisational behaviour, Tata McGrawhill
- Fred Luthans, Organisational behaviour, McGrawhill,New york
- K.Aswathappa, Organisational behaviour, Himalaya Publishing House
- Koontz,Harold, Essentials of management, Tata McGrawhill

11	**Internal Continuous Assessment: 40%**	**Semester End Examination : 60%**

12 **Continuous Evaluation through:**

Component	Total Marks
1)Assignment/Case Studies / Presentation/ /Project	10 Marks
2)Objective Questions	10 Marks
Total	**20 Marks**

13 **Format of Question Paper:** for the final examination

Question Number	Particular	Marks
Q-1	Attempt any ONE of the following:(Module 1) A. Full Length Question B. Full Length Question	10
Q-2	Attempt any ONE of the following: (Module 2) A. Full Length Question B. Full Length Question	10
Q-3	Short Notes attempt any TWO of the following: A. (Module 1) B. (Module 1) C. (Module 2) D. (Module 2)	10

Note: Any of the short notes of 5 Marks can be a case study.

Signatures of Team Members

Sr.No	Name	Signaturea
1.	Ms.Shalini Clayton	
2.	Ms.Reshma Rajput	
3.	Mr.Vedant Kajbaje	
4.		
5.		