Don Bosco College(Co-Ed)
Yelagiri Hills
Department of Computer Application
Course Outcomes for 2023 Curriculum

EM II	LANGUAGE	**Lecture**	**Practical**	**Credit**
FLT20	TAMIL I	**6**	**0**	**4**

பயன் :

1. மாணவர்கள் வாழ்க்கையில் அறநெறியுடன் வாழ்வதற்கும் மனதைஒருமுகபடுத்துவதற்கும் பக்தி இலக்கியங்களும் சிற்றிலக்கியங்களும் மாணவர்களுக்குபயன்படுகிறது.

2. பக்தி இலக்கியத்தின் வாயிலாகபுராணங்களின் முக்கியத்துவத்தையும் தெய்வங்களின் பெருமைகளையும் மாணவர்கள் அறிந்துக்கொள்கிறார்கள்.

3. கடவுளர்களையும் அரசர்களையும் பேரரிலக்கியங்கள் பேசியகாலங்களில் சிற்றிலக்கியங்கள் எளியமக்களின் வாழ்க்கைமுறையைபற்றிபேசுகிறதுஎன்பதைமாணவர்கள் அறிந்துக்கொள்கிறார்கள்.

4. மாணவர்கள் வாழ்க்கையில் அறம்,ஒழுக்கம் சார்ந்தசெயல்பாடுகளில் தங்களை இணைத்துக்கொள்வதற்குபக்திமார்க்கம் துணைப் புரிகின்றத.

5. மாணவர்கள் நாயன்மார்களைகற்பதினால் சிவனுடையபெருமைகளைஅறிந்துக்கொள்கின்றனர்.

SEM II	GENERAL ENGLISH	Lecture	Practical	Credit
FLE20	COMMUNICATIVE ENGLISH I	6	0	4

Course Outcome:

CO 1 – The students get to learn more about various ways of using LSRW

CO 2 – Able to understand the proper usage of a language

CO 3 – Will build up interpersonal communication by reinforcing basic of pronunciation

CO 4 – Improve conversational skills

CO 5 – Enable to familiar with the sounds of the English vocabulary, grammer

SEM II	GENERAL ENGLISH	Lecture	Practical	Credit
FPE20C	PROFESSIONAL ENGLISH II	6	0	3

Course Outcomes:

CO1 - Recognize their own ability in using the language for speaking with confidence in an intelligible and acceptable manner

CO 2 - Understand the importance of reading for life

CO 3 - Read independently unfamiliar texts with comprehension

CO 4 - Understand the importance of writing in academic life

Write simple sentences without committing error of spelling or grammar

SEM II	CORE THEORY	Lecture	Practical	Credit
FCA21	C++ AND DATA STRUCTURES	5	0	6

Course Outcomes:

1. The Student will be able to understand the concepts of object oriented programming, apply structure and inline functions.
2. The Student will be able to understand the concepts of the types of inheritances and applying various levels of Inheritance for real time problems
3. Apply the OOPs concepts class and object. Understand Explain the file concept and exception handlings in C++
4. The Student will be able to understand the concepts of Stacks and Queue using array and pointers.
5. The Student will be able to understand the concepts of Recursion, Binary Search Tree and graphs.
6. The Student will be able to understand the concepts of Sorting and Searching Algorithms.

SEM II	VALUE EDUCATION	**Lecture**	**Practical**	**Credit**
FGA20	VALUE EDUCATION	**2**	**0**	**2**

Course Outcome:

1. Appreciate human values and gain self-esteem
2. Realize the importance of family and its members particularly women in the society
3. Interpret the ethical values in the context of profession, media, family and personal life.
4. Recognize the values of the society and its impact

5.Formulate the ethical system at the international level and modern trends

SEM II	SOFT SKILLS	**Lecture**	**Practical**	**Credit**
FSS20	SOFT SKILLS	**2**	**0**	**1**

Course Outcome:

1. Demonstrate the skills for listening, writing, reading and writing
2. Read and respond to instruction

3. Seek and respond to information in day to day life
4. Correct grammatical and spelling errors
5. Actively engage in formal, in-formal and non-verbal communication

SEM II	CORE PRACTICAL	**Lecture**	**Practical**	**Credit**
FPCA26	C++ AND DATA STRUCTURES LAB	**0**	**3**	**2**

Course Outcomes:

1. Understand the Creating and Deleting the Objects with the Concepts of Constructors and Destructors.
2. Demonstrate the Polymorphism Concepts and Operator Overloading.
3. Understand basic Data Structures such as Arrays, Linked Lists, Stacks, Queues, Doubly Linked List and Infix to Postfix Conversion.
4. Apply Algorithms for solving problems like Sorting and Searching.
5. Apply Algorithms and use Graphs and Trees as tools to visualize and simplify Problems

SEM II	ALLIED I	**Lecture**	**Practical**	**Credit**
FAMA25B	MATHEMATICAL FOUNDATIONS II	**7**	**0**	**5**

Course Outcomes:

1. After completion of unit 1 the student can able to understand the basic concept of Matrices.

2. After completion of unit 2 the student can able to understand the basic concept of Matrices

3. After completion of unit 3 the student can able to understand the basic concept of Integration

4. After completion of unit 4 the student can able to understand the basic properties of definite integrals

5. After completion of unit 5 the student can able to understand the basic concept of analytical geometry of three dimension

SEM II	LANGUAGE	Lecture	Practical	Credit
FLT20	TAMIL II	6	0	4

பயன் :

1. மாணவர்கள் வாழ்க்கையில் அறநெறியுடன் வாழ்வதற்கும் மனதைஒருமுகபடுத்துவதற்கும் பக்தி இலக்கியங்களும் சிற்றிலக்கியங்களும் மாணவர்களுக்குபயன்படுகிறது.

2. பக்தி இலக்கியத்தின் வாயிலாகபுராணங்களின் முக்கியத்துவத்தையும் தெய்வங்களின் பெருமைகளையும் மாணவர்கள் அறிந்துக்கொள்கிறார்கள்.

3. கடவுளர்களையும் அரசர்களையும் பேரரிலக்கியங்கள் பேசியகாலங்களில் சிற்றிலக்கியங்கள் எளியமக்களின் வாழ்க்கைமுறையைபற்றிபேசுகிறதுஎன்பதைமாணவர்கள் அறிந்துக்கொள்கிறார்கள்.

4. மாணவர்கள் வாழ்க்கையில் அறம்,ஒழுக்கம் சார்ந்தசெயல்பாடுகளில் தங்களை இணைத்துக்கொள்வதற்குபக்திமார்க்கம் துணைப் புரிகின்றத.

5. மாணவர்கள் நாயன்மார்களைகற்பதினால் சிவனுடையபெருமைகளைஅறிந்துக்கொள்கின்றனர்.

SEM III	LANGUAGE	Lecture	Practical	Credit
FLT30	TAMIL-III	2	0	4

பயன் :

1. உலகப்பொதுமறை திருக்குறளை ஆர்வமுடன் கற்றுப் பயன் பெறலாம்.

2. சிலப்பதிகாரத்தின் பெருமையை அறிந்து கொள்ளலாம்.

3. காப ;பியங்களின் அமைப்பையும், சிறப்பையும ; ஆர்வமுடன் படிக்கலாம்.

4. இஸ்லாமிய இலக ;கியங்கள், கிருத ;துவ இலக ;கியங்கள் செய ;த தமிழுக்கு செய ;த

தொண ;டை அறிதல்.

5. மொழித்திறனை வளர ;த்துக் கொள்ளுதல்

SEM III	ENGLISH	**Lecture**	**Practical**	**Credit**
FLE30	ENGLISH-III	**6**	**0**	**4**

UNIT 1-PROSE

Course outcome

1. Understand the narrative technique present in the essay
2. Learn new words and phrases
3. Comprehend the humor and irony implied in the text
4. Learn the philosophy of life that everybody has his own time to succeed in life.
5. Understand tolerance is the best policy

UNIT 2 -POETRY

Outcome

Students learn to

1. Appreciate the elements and language of poetry
2. Critically analyze the features of poetry
3. Understand psychological conflict between the characters mother and daughter
4. Understand the comedy and irony present in the poem
5. Realize the importance of the values of life

UNIT 3 -SHORT STORY

Outcome

Students learn to

1. Evaluate the values of good and bad
2. Recognize the outcome of good deeds
3. Appreciate the moral values of life
4. Be generous and accept people around
5. Understand that a every child is gift from God

UNIT 4 - ONE ACT PLAY

Outcome

Students learn to

1. Appreciate the sense of homour present in the play
2. Understand the nuances of dialogue and structure of sentences
3. Understand expression related to the situations
4. Analyse and critically evaluate the play as a whole and try to enact on stage

UNIT 5 –I GRAMMAR

Outcome

Studens will able to

1. Learn the basics of grammar
2. Differentiate noun from adjective
3. Understand the different places and functions of adjective
4. Practice letter writing
5. Write resume, Bio-data and curriculum Vitae

SEM III	CORE THEORY	**Lecture**	**Practical**	**Credit**
FCA31	JAVA PROGRAMMING	**5**	**0**	**4**

Course Outcome:

1. Describe Object oriented programming concepts.
2. Write Java Programs using Arrays, Inheritance, Interface and Packages based on requirements.
3. Use String handling, exception handling and Multithreading concepts in Java programs
4. Create a simple application with the use of AWT controls and GUI Tools.
5. Develop a JDBC enabled Java Application.

SEM III	NMD	**Lecture**	**Practical**	**Credit**
FSCA34	FUNDAMENTALS OF CODING AND CLOUD	**2**	**0**	**2**

COURSE OUTCOMES:

1. Gain a strong command over Python programming language, including its syntax, data types, and control flow, to develop robust and efficient code.
2. Understand and apply object-oriented programming principles, such as encapsulation, inheritance, and polymorphism, to design and implement modular and reusable code.
3. Develop skills in manipulating data structures like arrays, lists, and dictionaries, and implement common algorithms such as searching and sorting for efficient data processing.
4. Enhance problem-solving abilities by applying quantitative aptitude, and algorithmic thinking to tackle complex coding challenges and develop optimal solutions.
5. Prepare for coding interviews by gaining exposure to a variety of problem-solving scenarios, practicing coding techniques, and developing effective communication skills to articulate programming concepts and solutions.

SEM III	CORE PRACTICAL	**Lecture**	**Practical**	**Credit**
FPCA36	JAVA PROGRAMMING LAB	**0**	**4**	**3**

Course Outcomes :

1. CO1. After studying unit-1, the student will be able to know about the working of object-oriented concepts in java.
2. CO2. After studying unit-2, the student will be able to practically know about primitive data types and operators.
3. CO3. After studying unit-3, the student will be able to practically work with arrays, control structures and handling exceptions.

4. CO4. After studying unit-4, the student will be able to practically work with files and packages.
5. CO5. After studied unit-5, the student will be able to practically know about Applets and GUI concepts

SEM III	ALLIED II	**Lecture**	**Practical**	**Credit**
FACM15C	FINANCIAL ACCOUNTING I	**7**	**0**	**3**

COURSE OUTCOMES:

Unit 1

After studying unit-1, to introduce the basic concepts and conventions to the students, this would help in the development of accounting knowledge.

Unit2

After studying unit-2, to understand the concept of the Double entry system this helps in preparation of various books of accounts.

Unit3

After studying unit-3 , to develop the capability of students to prepare the Final Accounts of a Small Business Concern.

Unit 4

After studying unit 4, To introduce the concept of Single entry system of Accounting which helps them to prepare the accounts from incomplete records.

Unit 5

After studying unit 4, To enhance the Accounting Knowledge by introducing the practical uses of Average Due Date and Bank Reconciliation Statement.

SEM III	NME	**Lecture**	**Practical**	**Credit**
FNEN34	LANGUAGE SKILLS FOR COMMUNICATION	**2**	**0**	**2**

COURSE OUTCOMES:

UNIT - I

1. Students will be able to know how to behave while meeting people.

2. Students will be able to understand the ways of exchanging greetings.

3. Students will be able to introduce them to a group of people.

4. Students will be able to understand how to introduce others in any situation.

5. Students will be able to understand how to give personal information in a coherent way.

UNIT - II

1. Students will be able to know how to converse over the phone.

2. Students will be able to know how to enquire over phone in formal situation

3. Students will be able to know how to deal with wrong numbers on the telephone.

4. Students will be able to know how to take and leave message after a telephonic conversation.

5. Students will be able to develop the skill of answering over the phone

SEM IV	LANGUAGE	**Lecture**	**Practical**	**Credit**
FLT40	TAMIL-IV	**6**	**0**	**4**

பயன் :

1. முச்சங்கம் பற்றிய செய ;திகளை தெரிந்து கொள்ளுதல்.

2. தமிழர்களின் ஒழுக்கங்கலான காதல், வீரம ; பற்றி அறிந்து பயன ;பெறலாம்.

3. சங்க கால வள்ளல்களின் சிறப்பினை அறிந்து கொள்ளலாம்.

4. ஆற்றுப்படை இலக்கியங்கள் பற்றிய புரிதலை பெறலாம்.

5. இலக்கிய வரலாற்றை அறிந்து கொள்ளுதல் மூலம் அரசின் போட்டித் தேர்வுகளின ;

SEM IV	ENGLISH	**Lecture**	**Practical**	**Credit**
FLE40	ENGLISH-IV	**6**	**0**	**4**

UNIT – 1 PROSE

Outcome

Students are able to

1 Understand and appreciate the style of Leacock

2 Enjoy the humour and wit presented in the prescribed text

3 Comprehend the philosophy of Swami Vivekananda

4 Learn new words and phrases

5 Understand the moral values and practise in personal life

UNIT -2 POETRY

Outcome

Students are able to

1. Grasp the lyrical beauty of the poem of Tagore

2. Identify the mysticism present in Tagore poem

3. Understand the patriotic values and sense of integration Grasp the lyrical beauty of the poem of Robert Frost

4. Identify the rhythm present in Frost poetry and understand its philosophical meaning

5. Realize how the nature is being depleted

6. Understand the cyclic nature of life

UNIT-3 SHORT STORY

Outcome

Students are able to

1. Appreciate the value of true love

2. Learn the narrative style

3. Assess the flow of language

4. Enjoy the twist of the story

5. Enjoy the aesthetic sense of the story and learn to appreciate the imaginary world.

UNIT -4 ONE ACT PLAY

Outcome

Students are able to

1. Appreciate the sense of humour present in the play

2. Understand the nuances of dialogue and structure of sentences

3. Learn new expression related to the situations

4. Study the stage directions and background

5. Analyse and critically evaluate the play as a whole and try to enact on

stage

UNIT-5: I- GRAMMAR

Outcome

Students are able

1. Learn the basics of grammar

2. To learn verb and adverb and know to differentiate them

3. To write reports

4. To comprehend a passage and answer the specific questions

SEM IV	CORE THEORY	**Lecture**	**Practical**	**Credit**
FCA41	RELATIONAL DATABASE MANAGEMENT SYSTEM	**5**	**0**	**4**

Course Outcomes:

- Describe the database architecture and its applications Sketch the ER diagram for real world applications Uses various ER diagrams for a similar concept from various sources.
- Discuss about relational algebra and calculus Construct various queries in SQL and PL/SQL Compiles various queries in SQL, Relational Calculus and Algebra.
- Describe the various normalization forms Apply the normalization concepts for a table of data Practices a table and implement the normalization concepts.
- Explain the storage and accessing of data.
- Illustrate the query processing in database management. Define the concurrency control and deadlock concept

SEM IV	CORE PRACTICAL	Lecture	Practical	Credit
FPCA46	RDBMS LAB	**0**	**4**	**3**

Course Outcomes:

- Design and Implement a database schema for a given problem domain.
- Populate and Query a database using SQL, DDL/DML Commands.
- Build well formed in String Date/Aggregate Functions.
- Design and Implement a database query using Joins, Sub-Queries and Set Operations.
- Program in SQL including Objects (Functions, Procedures, Triggers)

SEM IV	ALLIED II	Lecture	Practical	Credit
FACM25C	FINANCIAL ACCOUNTING II	**7**	**0**	**5**

Course Outcomes:

Unit1

- After studied unit-1, the student will be able to
- Understand the basic fundamentals of branch accounting

Unit2

- After studied unit-2, the student will be able to
- Understand the basic fundamentals of Departmental accounting

Unit3

- After studied unit-3, the student will be able to
- Understand the Hire Purchase System of accounting

Unit4

- After studied unit-4, the student will be able to
- Prepare the accounts partnership in fundamentals and reconstitution of partnership.

Unit 5

- After studied unit-5, the student will be able to
  Understand the accounts of Dissolution of partnership firms

SEM V	CORE THEORY	Lecture	Practical	Credit
FCA51	MOBILE APPLICATION DEVELOPMENT	6	0	4

Course Outcomes:

1. After studying unit-1, the student will be able to understand the basics of smartphones and android platforms**.**

2. After studying unit-2, the student will be able to understand the basic concepts of user interface related to app development.

3. After studying unit-3, the student will be able to understand the importance of data persistence in a mobile environment.

4. After studying unit-4, the student will be able to understand the various services and network facilities provided by android platform.

5. After studying unit-5, the student will be able to understand the various apps deployed and developed on a mobile platform

SEM V	CORE THEORY	Lecture	Practical	Credit
FCA52	OPERATING SYSTEM	6	0	4

Course Outcomes:

1. After studying unit-1, the student will be able to understand the basics of smartphones and android platforms**.**

2. After studying unit-2, the student will be able to understand the basic concepts of user interface related to app development.

3. After studying unit-3, the student will be able to understand the importance of data persistence in a mobile environment.

4. After studying unit-4, the student will be able to understand the various services and network facilities provided by android platform.

5. After studying unit-5, the student will be able to understand the various apps deployed and developed on a mobile platform.

SEM V	CORE THEORY	Lecture	Practical	Credit
FCA53	DESIGN AND ANALYSIS OF ALGORITHMS	**4**	**0**	**2**

Course Outcomes:

1. After studying unit-1, the student will be able to understand various algorithm design techniques.

2. After studying unit-2, the student will be able to understand the basis of efficient algorithms for all kinds of problems**.**

3. After studying unit-3, the student will be able to use a simple approach which tries to find the best solution at every step.

4. After studying unit-4, the student will be able to provide a general insight into the dynamic programming approach.

5. After studying unit-5, the student will be able to understand the algorithm design paradigm for discrete and combinatorial optimization problems

SEM V	CORE PRACTICAL	Lecture	Practical	Credit
FPCA56	MOBILE APPLICATION DEVELOPMENT LAB	**0**	**4**	**3**

Course Outcomes:

1. Able to understand about the basic developments of android applications

2. Able to understand the usage of the controls in android application.

3. Able to understand the advanced controls that are used in android applications.

4. Able to understand how the alerts are worked in application.

5. Able to understand the concept of connecting a database into the application

SEM V	CORE PRACTICAL	Lecture	Practical	Credit
FPCA57	OPERATING SYSTEM LAB	**0**	**4**	**3**

Course Outcomes:

1. Able to understand the basics of UNIX commands and shell programming.

2. Able to understand the programming knowledge of scheduling algorithms.

3. Able to understand the working of semaphores in an operating system.

4. Able to understand how to code various algorithms used in operating systems.

5. Able to understand how to code and the working procedure of file management concepts in operating systems.

SEM V	ELECTIVE I	**Lecture**	**Practical**	**Credit**
FECA54A	DATA MINING	**3**	**0**	**3**

Course Outcomes:

1. After studying unit-1, the student will be able to understand the basics of data mining and data.

2. After studied unit-2, the student will be able to understand about the methods of Data Warehousing

3. After studied unit-3, the student will be able to understand about the techniques of Data Mining

4. After studied unit-4, the student will be able to understand about the importance of Cluster and outlier detection

5. After studied unit-5, the student will be able to improve the student's knowledge with recent trends and tools

SEM V	ELECTIVE I	**Lecture**	**Practical**	**Credit**
FECA54B	INFORMATION SECURITY	**3**	**0**	**3**

Course Outcomes:

1. After studied unit-1, the student will be able to understand the basic concepts of Information Security

2. After studied unit-2, the student will be able to understand the legal, ethical and professional

issues in Information Security

3. After studied unit-3, the student will be able to know about risk management

4. After studied unit-4, the student will be able to understand the technological aspects of Information Security

5. After studied unit-5, the student will be able to understand the concepts of Cryptography and Hacking methods

SEM V	ELECTIVE I	**Lecture**	**Practical**	**Credit**
FECA54C	SOFTWARE TESTING	**3**	**0**	**3**

Course Outcomes:

1. After studied unit-1, the student will be able to understand the concept of software testing, and software quality

2. After studied unit-2, the student will be able to learn to inspect and detect errors by going through each and every code segment

3. After studied unit-3, the student will be able to gain knowledge of various functional and structural testing techniques

4. After studied unit-4, the student will be able to understand basic concept of Software Management tools and object oriented testing

5. After studied unit-5, the student will be able to understand basic concept of Software quality and software quality assurance

SEM V	NMD	**Lecture**	**Practical**	**Credit**
FSAM50	FOUNDATIONS OF AI&ML	**4**	**2**	**2**

COURSE OUTCOMES:

CO1: Demonstrate fundamental understanding of the history of artificial intelligence (AI) and its foundations.

CO2: Comprehend the applications of AI in in business and real world use case scenarios

CO3: Comprehend the OpenAI and generative models with their applications

CO4: Gain awareness of usage of AI in computer vision related applications

SEM VI	CORE THEORY	**Lecture**	**Practical**	**Credit**
FCA61	**OPEN SOURCE SOFTWARE**	**4**	**0**	**4**

Course Outcomes:

1. After studying unit-1, the student will be able to understand the concept of HTML, HTML5 and CSS.
2. After studied unit-2, the student will be able to learn to inspect and detect errors by going through each and
every code segment.
3. After studying unit-3, the student will be able to understand the basic concept of Java Script and MySQL.
4. After studied unit-4, the student will be able to understand basic concept of PHP
5. After studied unit-5, the student will be able to understand basic concept of PERL

SEM VI	CORE THEORY	**Lecture**	**Practical**	**Credit**
FCA62	PYTHON PROGRAMMING	**4**	**0**	**4**

Course Outcomes:

1. After studied unit-1, the student will be able to understand the basic building blocks for creating PYTHON

2. After studied unit-2, the student will be able to understand the control statements and basic methods used in

3. After studying unit-3, the student will be able to understand the basic built- in functions.

4. After studied unit-4, the student will be able to understand some advanced methods to use in PYTHON

5. After studied unit-5, the student will be able to understand the concept of objects used in PYTHON

SEM I	FOUNDATION	Lecture	Practical	Credit
23UFCA14	STRUCTURED PROGRAMMING IN C	**2**	**0**	**2**

Course Outcomes:

1. On completion of this course, students will
2. Remember the program structure of C with its syntax ands emantics
3. Understand the programming principles in C(datatypes, operators, branching and looping, arrays, functions, structures, pointers and files)
4. Analyze the various methods of solving a problem and choose the best method

SEM I	ELECTIVE I	Lecture	Practical	Credit
23UECA12B	NUMERICAL METHODS	**2**	**0**	**2**

Course Outcome:

1. Solve the problems of fitting of straight lines, parabolas and the different form of exponential curves
2. Solve algebraic equations using various methods like Bisection method, Iteration method, Regula Falsi method and Newton – Raphson method
3. Estimate the solution of simultaneous linear equations using different numerical methds
4. Define basic concept of operators Δ, A$andE$, Solving interpolation with equal intervals problems using Gregory Newton‟s forward formula and Newton‟s backward
5. Estimate the solution of central difference formula using the methods Gauss's forward, backward formula, Stirling's formula and Bessel,s formula

SEM VI	ELECTIVE I	Lecture	Practical	Credit
FECA63A	BIG DATA ANALYTICS	**3**	**0**	**3**

Course Outcomes:

1. After studying unit-1, the student will be able to understand the key issues in big data management.

2. After studying unit-2, the student will be able to outline big data planning, processing.

3. After studying unit-3, the student will be able to Acquire fundamental enabling techniques and be scalable.

4. After studying unit-4, the student will be able to examine various big data tools and techniques.

5. After studying unit-5, the student will be able to achieve adequate perspectives of Big Data Analytics in various Applications like recommender systems, Social Media Applications, etc.

SEM VI	ELECTIVE II	**Lecture**	**Practical**	**Credit**
FECA63B	CRYPTOGRAPHY	**3**	**0**	**3**

Course Outcomes:

1. After studying unit-1, the student will be able to know the security attacks and services.

2. After studying unit-2, the student will be able to understand the concept of Encryption Standards.

3. After studying unit-3, the student will be able to understand public key cryptographic algorithms.

4. After studying unit-4, the student will be able to learn the concept of hash functions.

5. After studying unit-5, the student will be able to understand Email security.

SEM VI	ELECTIVE II	**Lecture**	**Practical**	**Credit**
FECA63C	DIGITAL IMAGE PROCESSING	**3**	**0**	**3**

Course Outcomes:

1. After studying unit-1, the student will be able to understand the concepts like MatLab, DIP, electromagnetic spectrum, etc.

2. After studying unit-2, the student will be able to analyze smoothing and sharpening techniques.

3. After studying unit-3, the student will be able to know about image filters.

4. After studying unit-4, the student will be able to gain knowledge about compression techniques.

5. After studying unit-5, the student will be able to know about image representation.

SEM VI	ELECTIVE III	**Lecture**	**Practical**	**Credit**
FECA64A	ARTIFICIAL INTELLIGENCE	**3**	**0**	**3**

Course Outcomes:

1. After studied unit-1, the student will be able to recall the fundamentals of artificial intelligence

2. After studied unit-2, the student will be able to understand the techniques used for AI

3. After studying unit-3, the student will be able to know about knowledge representation.

4. After studying unit-4, the student will be able to gain knowledge about fuzzy logic.

5. After studied unit-5, the student will be able to evaluate the design of new artificial intelligence and machine learning applications

SEM VI	ELECTIVE III	**Lecture**	**Practical**	**Credit**
FECA64B	SYSTEM SOFTWARE	**3**	**0**	**3**

Course Outcomes:

1. After studying unit-1, the student will be able to analyze CISC and RISC machines.

2. After studying unit-2, the student will be able to know how assemblers are working.

3. After studying unit-3, the student will be able to distinguish Linker and Loader.

4. After studying unit-4, the student will be able to learn macro processor.

5. After studying unit-5, the student will be able to understand the functions of compilers**.**

SEM VI	ELECTIVE III	**Lecture**	**Practical**	**Credit**
FECA64C	MOBILE COMPUTING	**3**	**0**	**3**

Course Outcomes:

1. After studying unit-1, the student will be able to understand basic concepts of mobile computing.

2. After studying unit-2, the student will be able to learn the basics of mobile telecommunication systems.

3. After studying unit-3, the student will be able to comprehend wireless LAN and cellular systems.

4. After studying unit-4, the student will be able to understand protocols at the network and transport layer.

5. After studying unit-5, the student will be able to learn development of applications in mobile computing platforms.

SEM VI	CORE PRACTICAL	**Lecture**	**Practical**	**Credit**
FPCA66	PYTHON PROGRAMMING LAB	**0**	**4**	**2**

Course Outcomes (five outcomes for each unit should be mentioned)

1. After studying unit-1, the student will be able to write a program using operators.

2. After studying unit-2, the student will be able to develop a program using loops.

3. After studying unit-3, the student will be able to implement a program using Arrays.

4. After studying unit-4, the student will be able to implement the concept of String functions.

5. After studying unit-5, the student will be able to build application with basic expressions

SEM I	SKILL BASED	**Lecture**	**Practical**	**Credit**
23USCA13	FUNDAMENTALS OF INFORMATION TECHNOLOGY	**2**	**0**	**2**

Course Outcome:

1. Learn the basics of computer ,Construct the structure of there quired things in computer, learn how to use it.
2. Develop organizational structure using for the devices present currently under input or output unit.
3. Concep to storing data in computer using two header namely RAM and ROM with different types of ROM with advancement in storage basis.
4. Usage of Operating system in information technology which really acts as a interpreter between software and hardware.

SEM VI	CORE PRACTICAL	**Lecture**	**Practical**	**Credit**
FPCA67	OPEN SOURCE SOFTWARE LAB	**0**	**4**	**2**

Course Outcomes

1. After studying unit-1, the student will be able to design static web pages.

2. After studying unit-2, the student will be able to link common style to the web pages using CSS.

3. After studying unit-3, the student will be able to validate form controls using javascript.

4. After studying unit-4, the student will be able to design dynamic web pages using PHP.

5. After studying unit-5, the student will be able to develop a PHP program with MYSQL database connection.