POORNIMA
COLLEGE OF ENGINEERING

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Certificate/ Add-on/ Value Added Programs – Summary Reports
(Session 2023-24)

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Certificate/ Add-on/ Value Added Programs

Summary Reports
(Department of Civil Engineering)

Program Name: B.Tech (Civil Engineering)
Program Code: CE

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Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	To understand the basic commands of ETABS.
CO2	To Apply the complex conditions in ETABS software.
CO3	To Analyze the different structural components by using ETABS software

Sr. No.	Particulars	Remark
1.	**Year**	3rd Year
2.	**Semester**	VI Semester
3.	**No of Student Enrolled**	51
4.	**No of Student certified**	34
5.	**Overall remark by feedback**	As per the feedback, This Course should covers recent techniques, case study and innovative outcome based learning to analyze and evaluate the concepts of civil engineering to make his personality competent enough to fulfill the gap between academic and industry. Overall objective of the course has been achieved by the feedback given by the participants.
6.	**Action to be taken for future batch**	Department will be used and assign the subject's syllabus according to the requirements.

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Add-on Course- *Revit*

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Understand the fundamental interface, tools, and commands in Revit to set up and navigate through projects effectively.
CO2	Apply various architectural modeling techniques to create building components such as walls, floors, roofs, and stairs in Revit.
CO3	Analyze and modify project parameters, view settings, and schedules to manage project data and documentation effectively.

Sr. No.	Particulars	Remark
1.	Year	2nd Year
2.	Semester	V Semester
3.	No of Student Enrolled	34
4.	No of Student certified	33
5.	Overall remark by feedback	This course incorporates recent techniques, case studies, and innovative outcome-based learning methods to analyze and evaluate key concepts in civil engineering. It is designed to enhance participants' competencies, bridging the gap between academic knowledge and industry requirements. The feedback provided by participants indicates that the overall objectives of the course have been successfully achieved.
6.	Action to be taken for future batch	Department will be used and assign the subject's syllabus according to the requirements.

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Add-on Course- *Sketchup*

Modelling

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	To understand the basic commands of SketchUp.
CO2	To apply materials, textures, and components in SketchUp models.
CO3	To create and visualize detailed 3D models of architectural structures.

Sr. No.	Particulars	Remark
1.	**Year**	2nd **Year**
2.	**Semester**	**III Semester**
3.	**No of Student Enrolled**	**33**
4.	**No of Student certified**	**32**
5.	**Overall remark by feedback**	This course incorporates recent techniques, case studies, and innovative, outcome-based learning approaches to analyze and evaluate key civil engineering concepts. It aims to enhance learners' competencies, bridging the gap between academic knowledge and industry demands. Participant feedback indicates that the course successfully achieves its overall objectives.
6.	**Action to be taken for future batch**	The department will design and assign the subject syllabus based on specific requirements.

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Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	To understand the basic commands of STADD Pro.
CO2	To Apply the typical loading in STADD Pro software.
CO3	To Analyze the different structural components by using of STADD Pro software.

Sr. No.	Particulars	Remark
1.	**Year**	3rd Year
2.	**Semester**	V Semester
3.	**No of Student Enrolled**	51
4.	**No of Student certified**	46
5.	**Overall remark by feedback**	Based on the feedback, this course is designed to cover recent techniques, case studies, and innovative, outcome-based learning approaches to help students analyze and evaluate civil engineering concepts. It aims to enhance their competencies and bridge the gap between academic knowledge and industry requirements. The overall objective of the course has been successfully achieved, as reflected in the positive feedback from the participants.
6.	**Action to be taken for future batch**	The department will develop and allocate the subject syllabus based on specific requirements.

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Certificate/ Add-on/ Value Added Programs

Summary Reports
(Department of I Year)

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Department of First Year
ODD Semester- 2023-24
Add-on Course-Python Programming

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Understand Python syntax and semantics and be fluent in the use of Python flow control and Functions
CO2	Develop, run and manipulate Python programs using Core data structures like Lists, Dictionaries, and use of Strings Handling methods
CO3	Develop, run and manipulate Python programs using File Operations and searching pattern using regular expressions.
CO4	Interpret the concepts of object oriented programming using Python
CO5	Determine the need for scraping websites and working with CSV, JSON and other file formats.

Sr. No.	Particulars	Remark
1.	Year	I Year
2.	Semester	I Semester
3.	No of Student Enrolled	127
4.	No of Student certified	100
5.	Overall remark by feedback	As per the feedback, more analysis related to Python Programming must be done.. Overall objective of the course has been achieved by the feedback given by the participants.
6.	Action to be taken for future batch	More Python Programming related problems for better understanding, learning and improving the skill sets of the student..

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Department of First Year

Session- 2023-24

Add-on Course-Object Oriented Programming using C++ Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Students will be able to have knowledge about programming paradigm, characteristics of OOPs, input/output operations, tokens and data types.
CO2	Students will be able to analyse the problems related to operators, decision making and branching, iterative and class, objects and solve them.
CO3	Students will be able to develop their coding skills to solve the problem using array, string, pointers and file structure.
CO4	Students will be able to improve their concept of algorithms, structure, using modularization to solve complex problems using C++ programming.
CO5	Students will be able to interpret the data and evaluate the outcomes based on it.

Sr. No.	Particulars	Remark
1.	**Year**	I Year
2.	**Semester**	I and II Semester
3.	**No of Student Enrolled**	71
4.	**No of Student certified**	54
5.	**Overall remark by feedback**	As per the feedback, more analysis related to motors must be done. Overall objective of the course has been achieved by the feedback given by the participants.
6.	**Action to be taken for future batch**	More motors related problems for better understanding, learning and improving the skill sets of the student.

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Department of First Year
Even Semester- 2023-24
Add-on Course- ADVANCE "C"
Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Students will be able to have knowledge about number system, quadratic equation, percentage, simple interest, compound interest, probability, permutation - combination and Vedic mathematics.
CO2	Students will be able to analyze the problems related to syllogism, patterns, puzzles and solve them.
CO3	Students will be able to develop their soft skills like communication skill (both speaking skill and writing skill). They will study about basic rules of English grammar to improve their communication.
CO4	Students will be able to improve their reasoning and logical thinking and also apply short cut tricks to solve the problems fast.

Sr. No.	Particulars	Remark
1.	Year	I Year
2.	Semester	I Semester
3.	No of Student Enrolled	80
4.	No of Student certified	55
5.	Overall remark by feedback	As per the feedback, more emphasis should be given on syllogism solving problems. Overall objective of the course has been achieved by the feedback given by the participants
6.	Action to be taken for future batch	More emphasis on usage of syllogism for improving verbal ability of the student.

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Department of First Year

Odd Semester- 2023-24

Add-on Course-Skill development program in HTML, CSS, JavaScript including BOOTSTRAP, ReactJS

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	students will be able to have knowledge Design static web pages using HTML and CSS Using internet technologies
CO2	Students will be able to Create dynamic web pages using JavaScript using internet technologies and services.
CO3	Students will be able to Develop JDBC programs and server-side scripts using servlets
CO4	Students will be able to Develop server-side scripts using JSP..
CO5	Students will be able to Apply jQuery methods and events

Sr. No.	Particulars	Remark
1.	Year	I Year
2.	Semester	I Semester
3.	No of Student Enrolled	366
4.	No of Student certified	285
5.	Overall remark by feedback	As per the feedback, study should be done by Projector & and more practice should be done on live projects using JavaScript. Overall objective of the course has been achieved by the feedback given by the participants
6.	Action to be taken for future batch	Use of Projector should be done in this web development lab for better understanding of the commands of options of the software.

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Department of First Year
Even Semester- 2023-24
Add-on Course-Logical Reasoning and Technical skill Development
Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Students will be able to have knowledge about number system, quadratic equation, percentage, simple interest, compound interest, probability, permutation - combination and Vedic mathematics.
CO2	Students will be able to analyze the problems related to syllogism, patterns, puzzles and solve them.
CO3	Students will be able to develop their soft skills like communication skill (both speaking skill and writing skill). They will study about basic rules of English grammar to improve their communication.
CO4	Students will be able to improve their reasoning and logical thinking and also apply short cut tricks to solve the problems fast.

Sr. No.	Particulars	Remark
1.	Year	I Year
2.	Semester	I Semester
3.	No of Student Enrolled	649
4.	No of Student certified	649
5.	Overall remark by feedback	As per the feedback, more emphasis should be given on syllogism solving problems. Overall objective of the course has been achieved by the feedback given by the participants
6.	Action to be taken for future batch	More emphasis on usage of syllogism for improving verbal ability of the student.

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Certificate/ Add-on/ Value Added Programs

Summary Reports
(Department of Electrical Engineering)

Program Name: B.Tech. (Electrical Engineering)
Program Code: EE

POORNIMA
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Department of Electrical Engineering
Even Semester- 2023-24
Add-on Course- (AOC-DEP-EE-LaTeX) Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Students will be able to learn about LaTeX
CO2	Students will be able to learn about various features of LaTeX
CO3	Students will be able to apply responsive design to enable various transient problems
CO4	Students will be able to see future prospects of LaTeX on the basis of application.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1										3			3		3
CO2					3					3					
CO3															3
CO4							3	3		3					

Sr. No.	Particulars	Remark
1.	Year	2nd,3rd 4th Year
2.	Semester	III, V, VII Semester
3.	No of Student Enrolled	39
4.	No. of student absent in Exam	7
5.	No. of Student not eligible for the certification	
6.	No of Student certified	19
7.	Overall remark by feedback	As per the feedback, study should be done by Projector & Exam to be taken online. Overall objective of the course has been achieved by the feedback given by the participants.
8.	Action to be taken for future batch	More Time is required for the practice session. Proper Time to be managed to complete all the Experiments

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Department of Electrical Engineering
Even Semester- 2023-24
Add-on Course- (AOC-DEP-EE-SOLAR) Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Students will be able to learn about SOLAR
CO2	Students will be able to learn about various features of SOLAR.
CO3	Students will be able to apply responsive design to enable various transient problems
CO4	Students will be able to see future prospects of SOLAR on the basis of application.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1										3			3		3
CO2					3					3					
CO3															3
CO4						3	3			3					

Sr. No.	Particulars	Remark
1.	Year	2nd and 3rd Year
2.	Semester	III and V Semester
3.	No of Student Enrolled	44
4.	No. of student absent in Exam	0
5.	No. of Student not eligible for the certification	02
6.	No of Student certified	41
7.	Overall remark by feedback	As per the feedback, study should be done by Projector & Exam to be taken online. Overall objective of the course has been achieved by the feedback given by the participants.
8.	Action to be taken for future batch	More Time is required for the practice session. Proper Time to be managed to complete all the Experiments

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Certificate/ Add-on/ Value Added Programs

Summary Reports
(Department of Mechanical Engineering)

Program Name: B.Tech (Mechanical Engineering)
Program Code: ME

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COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Explain the working of different parts of an automobile.
CO2	Apply the knowledge of engine, transmission, clutch and brakes for smooth functioning of vehicles
CO3	Analyse the study of an angle for steering and the suspension systems.
CO4	Design and develop a strong base for understanding future developments in the automobile industry.

Sr. No.	Particulars	Remark
1.	Year	2nd Year
2.	Semester	III Semester
3.	No of Student Enrolled	14
4.	No of Student certified	14
5.	Overall remark by feedback	As per the feedback, students able to learn the concept of automobile in online mode especially to working on four stroke and two stroke engine. Overall objective of the course has been achieved by the feedback given by the participants
6.	Action to be taken for future batch	In future point of view engine assembly and disassembly should be done by the students.

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Department of Mechanical Engineering

Odd Semester- 2023-24

Add-on Course- Advance Manufacturing

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Remember the different types of basic materials and manufacturing processes
CO2	Understand the various advance machining processes, planning and design tools.
CO3	Investigate the machining forces, material removal rate, surface finish of advance machining processes
CO4	Apply the 3D printing and digital manufacturing approach into industrial applications.

Sr. No.	Particulars	Remark
1.	Year	3rd Year
2.	Semester	V Semester
3.	No of Student Enrolled	21
4.	No of Student certified	21
5.	Overall remark by feedback	As per the feedback, students able to learn the concept of Manufacturing and 3D printing
6.	Action to be taken for future batch	In future point of view student will learn about advance machining of advance materials and new materials in 3D printing

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Certificate/ Add-on/ Value Added Programs

Summary Reports
(Department of Computer Engineering)

Program Name: B.Tech. (Computer Engineering)
Program Code: CS

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Department of Computer Engineering
Odd Semester- 2023-24

Add-on Course - C

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to -

S. No.	Course Outcomes
CO1	Students will be able to comprehend and write C programs using basic syntax, including the use of variables, operators, data types, and control structures.
CO2	Learners will understand the concepts of functions in C programming, including how to define, declare, and call functions, and how to pass parameters and return values.
CO3	Students will develop skills in using arrays and pointers, understanding their relationship, and manipulating memory effectively through pointer arithmetic and memory management.
CO4	Students will be able to read from and write to files using standard file handling functions in C.
CO5	Students will be able to solve computational problems by writing efficient algorithms and implementing them in C, utilizing arrays, loops, and functions to achieve desired outputs.

Sr. No.	Particulars	Remark
1.	**Year**	II Year
2.	**Semester**	III Semester
3.	**No of Student Enrolled**	36
4.	**No of Student certified**	13
5.	**Overall remark by feedback**	Overall Feedback was good.
6.	**Action to be taken for future batch**	NIL

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Department of Computer Engineering
Odd Semester- 2023-24

Add-on Course - Software Testing

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to -

S. No.	Course Outcomes
CO1	Students will gain a solid understanding of the principles, types, and levels of software testing, including unit, integration, system, and acceptance testing.
CO2	Students will learn how to effectively participate in defect triaging sessions, categorizing defects based on severity and priority, and communicating them with relevant teams for resolution.
CO3	Students will acquire hands-on experience in using JIRA for managing test cases, tracking defects, and reporting progress in Agile environments.
CO4	Students will learn the unique aspects of testing in the Salesforce environment, including testing custom objects, Lightning components, and integrations within the Salesforce platform.
CO5	Students will understand the fundamentals of API testing, including the importance of testing RESTful and SOAP APIs for functionality, security, and performance.

Sr. No.	Particulars	Remark
1.	**Year**	II Year
2.	**Semester**	III Semester
3.	**No of Student Enrolled**	36
4.	**No of Student certified**	21
5.	**Overall remark by feedback**	Overall Feedback was good.
6.	**Action to be taken for future batch**	NIL

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Department of Computer Engineering
Odd Semester- 2023-24

Add-on Course - JAVA

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to -

S. No.	Course Outcomes
CO1	Students will develop a deep understanding of core Java programming concepts such as variables, data types, control flow and operators.
CO2	Students will become proficient in designing and implementing Java applications using object-oriented design principles.
CO3	Students will gain the ability to handle runtime errors using Java's exception-handling mechanism and write robust code that can manage errors effectively.
CO4	Students will understand and be able to use Java's powerful collections framework, including lists, sets, maps, and queues, as well as the differences between various collection types and their appropriate use cases.
CO5	Students will learn how to develop multithreaded Java applications, understanding the concepts of threads, synchronization, and concurrency in Java.

Sr. No.	Particulars	Remark
1.	**Year**	II Year
2.	**Semester**	III Semester
3.	**No of Student Enrolled**	86
4.	**No of Student certified**	86
5.	**Overall remark by feedback**	Overall Feedback was good.
6.	**Action to be taken for future batch**	NIL

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Department of Computer Engineering
Odd Semester- 2023-24

Add-on Course - Python

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to -

S. No.	Course Outcomes
CO1	Apply the programming constructs like variables, data structures and control flow structures.
CO2	Develop programs using file handling, Object oriented paradigms, GUI controls.
CO3	Demonstrate the use of exception handling, different libraries and database connectivity.
CO4	Use Python IDEs like IDLE, Spyder, and PyCharm to develop programs.
CO5	Design solutions of real-world computational problems using Python programs.

Sr. No.	Particulars	Remark
1.	Year	II Year
2.	Semester	III Semester
3.	No of Student Enrolled	51
4.	No of Student certified	43
5.	Overall remark by feedback	Overall Feedback was good.
6.	Action to be taken for future batch	NIL

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Department of Computer Engineering
Odd Semester- 2023-24

Add-on Course - Software Testing

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to -

S. No.	Course Outcomes
CO1	Students will gain a solid understanding of the principles, types, and levels of software testing, including unit, integration, system, and acceptance testing.
CO2	Students will learn how to effectively participate in defect triaging sessions, categorizing defects based on severity and priority, and communicating them with relevant teams for resolution.
CO3	Students will acquire hands-on experience in using JIRA for managing test cases, tracking defects, and reporting progress in Agile environments.
CO4	Students will learn the unique aspects of testing in the Salesforce environment, including testing custom objects, Lightning components, and integrations within the Salesforce platform.
CO5	Students will understand the fundamentals of API testing, including the importance of testing RESTful and SOAP APIs for functionality, security, and performance.

Sr. No.	Particulars	Remark
1.	**Year**	II Year
2.	**Semester**	III Semester
3.	**No of Student Enrolled**	36
4.	**No of Student certified**	21
5.	**Overall remark by feedback**	Overall Feedback was good.
6.	**Action to be taken for future batch**	NIL

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Department of Computer Engineering
Odd Semester- 2023-24

Add-on Course - C ++

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to -

S. No.	Course Outcomes
CO1	Students will gain a strong understanding of C++ syntax, including variables, data types, operators, control structures (loops, conditionals), and functions.
CO2	Students will learn and apply advanced object-oriented programming concepts in C++, such as classes, objects, inheritance, polymorphism, encapsulation, and abstraction.
CO3	Students will develop a deep understanding of memory management in C++, including the use of pointers, dynamic memory allocation (via new and delete), and memory leaks.
CO4	Students will learn to use the C++ Standard Template Library (STL), including key components like vectors, lists, maps, sets, and algorithms.
CO5	Students will become proficient in using advanced C++ features such as templates (both function and class templates) for generic programming, exception handling for managing errors and file I/O for reading from and writing to files.

Sr. No.	Particulars	Remark
1.	Year	III Year
2.	Semester	V Semester
3.	No of Student Enrolled	26
4.	No of Student certified	16
5.	Overall remark by feedback	Overall Feedback was good.
6.	Action to be taken for future batch	NIL

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Department of Computer Engineering
Odd Semester- 2023-24

Add-on Course – Advance JAVA

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to -

S. No.	Course Outcomes
CO1	Students will deepen their understanding of advanced object-oriented programming principles such as abstract classes, interfaces, design patterns and their practical application in real-world Java applications.
CO2	Students will develop the ability to create multi-threaded Java applications, understanding thread synchronization, thread pools, and concurrent programming techniques.
CO3	Students will be able to create distributed applications, understanding how to manage connections, data streams, and protocols in Java-based networking.
CO4	Students will gain expertise in using JDBC (Java Database Connectivity) to connect to relational databases, execute SQL queries, and process results.
CO5	Students will gain practical experience in developing web applications using Java Servlets and JSP (JavaServer Pages), focusing on request-response cycles, session management, and web application architecture.

Sr. No.	Particulars	Remark
1.	Year	III Year
2.	Semester	V Semester
3.	No of Student Enrolled	11
4.	No of Student certified	2
5.	Overall remark by feedback	Overall Feedback was good.
6.	Action to be taken for future batch	NIL

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Department of Computer Engineering
Odd Semester- 2023-24

Add-on Course – Mobile Application Development

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to -

S. No.	Course Outcomes
CO1	Students will learn to set up development environments and select appropriate tools for mobile app development based on project requirements.
CO2	Students will develop the ability to design intuitive and responsive user interfaces (UIs) that provide a seamless user experience (UX) on mobile devices.
CO3	Students will learn how to develop native mobile applications using Android (Java/Kotlin) and iOS (Swift) programming languages, as well as cross-platform frameworks like Flutter or React Native.
CO4	Students will understand the mobile application lifecycle, including app startup, background tasks, state management, and handling configuration changes.
CO5	Students will learn how to deploy their mobile applications to the Google Play Store (for Android) or Apple App Store (for iOS) and understand the requirements for app submission and distribution.

Sr. No.	Particulars	Remark
1.	Year	III Year
2.	Semester	V Semester
3.	No of Student Enrolled	23
4.	No of Student certified	14
5.	Overall remark by feedback	Overall Feedback was good.
6.	Action to be taken for future batch	NIL

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Department of Computer Engineering
Odd Semester- 2023-24

Add-on Course - SQL

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to -

S. No.	Course Outcomes
CO1	Students will gain the ability to write basic SQL queries to retrieve and manipulate data from relational databases, using SELECT, INSERT, UPDATE, and DELETE statements.
CO2	Students will develop a solid understanding of relational database concepts, including tables, primary and foreign keys, and relationships between entities (one-to-one, one-to-many, many-to-many).
CO3	Students will learn to write more advanced SQL queries, including JOINs (inner, outer, left, right) to combine data from multiple tables.
CO4	Students will understand how to manage database transactions using COMMIT, ROLLBACK, and SAVEPOINT, ensuring data integrity and consistency.
CO5	Students will learn how to optimize SQL queries for performance, understanding how to use indexes, views, and stored procedures to speed up data retrieval and manipulation.

Sr. No.	Particulars	Remark
1.	**Year**	III Year
2.	**Semester**	V Semester
3.	**No of Student Enrolled**	23
4.	**No of Student certified**	19
5.	**Overall remark by feedback**	Overall Feedback was good.
6.	**Action to be taken for future batch**	NIL

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Add-on Course – Data Structure & Algorithm

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to -

S. No.	Course Outcomes
CO1	Students will gain a thorough understanding of fundamental data structures such as arrays, linked lists, stacks, queues, trees, graphs, and hash tables.
CO2	Students will learn various algorithm design techniques such as divide and conquer, greedy algorithms, dynamic programming, and backtracking.
CO3	Students will gain hands-on experience with fundamental sorting algorithms (e.g., Bubble Sort, Quick Sort, Merge Sort, Heap Sort) and searching algorithms (e.g., Binary Search, Linear Search).
CO4	Students will also master tree traversal techniques like pre-order, in-order, post-order, and level-order, and understand how to apply these techniques in different scenarios.
CO5	Students will develop problem-solving skills through algorithmic challenges, learning to break down complex problems and design efficient solutions.

Sr. No.	Particulars	Remark
1.	**Year**	III Year
2.	**Semester**	V Semester
3.	**No of Student Enrolled**	138
4.	**No of Student certified**	110
5.	**Overall remark by feedback**	Overall Feedback was good.
6.	**Action to be taken for future batch**	NIL

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Certificate/ Add-on/ Value Added Programs

Summary Reports
(Department of Advance Computing)

	Program Name	Program Code
1	B.Tech (Computer Science and Engineering (Artificial Intelligence))	CAI
2	B.Tech (Artificial Intelligence(AI) and Data Science)	AID
3	B.Tech (Computer Science and Engineering (Cyber Security))	CCS

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Add-on Course - C

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to -

S. No.	Course Outcomes
CO1	Students will be able to comprehend and write C programs using basic syntax, including the use of variables, operators, data types, and control structures.
CO2	Learners will understand the concepts of functions in C programming, including how to define, declare, and call functions, and how to pass parameters and return values.
CO3	Students will develop skills in using arrays and pointers, understanding their relationship, and manipulating memory effectively through pointer arithmetic and memory management.
CO4	Students will be able to read from and write to files using standard file handling functions in C.
CO5	Students will be able to solve computational problems by writing efficient algorithms and implementing them in C, utilizing arrays, loops, and functions to achieve desired outputs.

Sr. No.	Particulars	Remark
1.	**Year**	II Year
2.	**Semester**	III Semester
3.	**No of Student Enrolled**	29
4.	**No of Student certified**	15
5.	**Overall remark by feedback**	Overall Feedback was good.
6.	**Action to be taken for future batch**	NIL

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Department of Advance Computing
Odd Semester- 2023-24

Add-on Course – Dynamic Web Development

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to -

S. No.	Course Outcomes
CO1	Students will gain a solid foundation in the principles of dynamic web development, including the client-server architecture, HTTP protocols, and how dynamic content is generated and displayed on the web.
CO2	Students will become proficient in using JavaScript to build dynamic, interactive, and responsive web pages. They will understand key JavaScript concepts such as DOM manipulation, event handling, and AJAX.
CO3	Students will learn how to use Flexberry ORM to map and interact with databases, simplifying the process of working with relational data in web applications.
CO4	Students will be able to design and develop web applications that scale efficiently, focusing on optimization techniques, handling user sessions, and leveraging frameworks to manage complex backend interactions.
CO5	Students will gain an understanding of Mnogoletnei, including its role in managing long-term application states and complex workflows over extended periods.

Sr. No.	Particulars	Remark
1.	**Year**	II Year
2.	**Semester**	III Semester
3.	**No of Student Enrolled**	48
4.	**No of Student certified**	41
5.	**Overall remark by feedback**	Overall Feedback was good.
6.	**Action to be taken for future batch**	NIL

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Department of Advance Computing
Odd Semester- 2023-24

Add-on Course - JAVA

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to -

S. No.	Course Outcomes
CO1	Students will develop a deep understanding of core Java programming concepts such as variables, data types, control flow and operators.
CO2	Students will become proficient in designing and implementing Java applications using object-oriented design principles.
CO3	Students will gain the ability to handle runtime errors using Java's exception-handling mechanism and write robust code that can manage errors effectively.
CO4	Students will understand and be able to use Java's powerful collections framework, including lists, sets, maps, and queues, as well as the differences between various collection types and their appropriate use cases.
CO5	Students will learn how to develop multithreaded Java applications, understanding the concepts of threads, synchronization, and concurrency in Java.

Sr. No.	Particulars	Remark
1.	**Year**	II Year
2.	**Semester**	III Semester
3.	**No of Student Enrolled**	55
4.	**No of Student certified**	50
5.	**Overall remark by feedback**	Overall Feedback was good.
6.	**Action to be taken for future batch**	NIL

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Department of Advance Computing
Odd Semester- 2023-24

Add-on Course - Python

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to -

S. No.	Course Outcomes
CO1	Apply the programming constructs like variables, data structures and control flow structures.
CO2	Develop programs using file handling, Object oriented paradigms, GUI controls.
CO3	Demonstrate the use of exception handling, different libraries and database connectivity.
CO4	Use Python IDEs like IDLE, Spyder, and PyCharm to develop programs.
CO5	Design solutions of real-world computational problems using Python programs.

Sr. No.	Particulars	Remark
1.	**Year**	II Year
2.	**Semester**	III Semester
3.	**No of Student Enrolled**	39
4.	**No of Student certified**	30
5.	**Overall remark by feedback**	Overall Feedback was good.
6.	**Action to be taken for future batch**	NIL

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Department of Advance Computing
Odd Semester- 2023-24

Add-on Course - Software Testing

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to -

S. No.	Course Outcomes
CO1	Students will gain a solid understanding of the principles, types, and levels of software testing, including unit, integration, system, and acceptance testing.
CO2	Students will learn how to effectively participate in defect triaging sessions, categorizing defects based on severity and priority, and communicating them with relevant teams for resolution.
CO3	Students will acquire hands-on experience in using JIRA for managing test cases, tracking defects, and reporting progress in Agile environments.
CO4	Students will learn the unique aspects of testing in the Salesforce environment, including testing custom objects, Lightning components, and integrations within the Salesforce platform.
CO5	Students will understand the fundamentals of API testing, including the importance of testing RESTful and SOAP APIs for functionality, security, and performance.

Sr. No.	Particulars	Remark
1.	**Year**	II Year
2.	**Semester**	III Semester
3.	**No of Student Enrolled**	19
4.	**No of Student certified**	08
5.	**Overall remark by feedback**	Overall Feedback was good.
6.	**Action to be taken for future batch**	NIL

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Department of Advance Computing
Odd Semester- 2023-24

Add-on Course - C ++

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to -

S. No.	Course Outcomes
CO1	Students will gain a strong understanding of C++ syntax, including variables, data types, operators, control structures (loops, conditionals), and functions.
CO2	Students will learn and apply advanced object-oriented programming concepts in C++, such as classes, objects, inheritance, polymorphism, encapsulation, and abstraction.
CO3	Students will develop a deep understanding of memory management in C++, including the use of pointers, dynamic memory allocation (via new and delete), and memory leaks.
CO4	Students will learn to use the C++ Standard Template Library (STL), including key components like vectors, lists, maps, sets, and algorithms.
CO5	Students will become proficient in using advanced C++ features such as templates (both function and class templates) for generic programming, exception handling for managing errors and file I/O for reading from and writing to files.

Sr. No.	Particulars	Remark
1.	Year	III Year
2.	Semester	V Semester
3.	No of Student Enrolled	17
4.	No of Student certified	06
5.	Overall remark by feedback	Overall Feedback was good.
6.	Action to be taken for future batch	NIL

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Department of Advance Computing
Odd Semester- 2023-24

Add-on Course – Advance JAVA

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to -

S. No.	Course Outcomes
CO1	Students will deepen their understanding of advanced object-oriented programming principles such as abstract classes, interfaces, design patterns and their practical application in real-world Java applications.
CO2	Students will develop the ability to create multi-threaded Java applications, understanding thread synchronization, thread pools, and concurrent programming techniques.
CO3	Students will be able to create distributed applications, understanding how to manage connections, data streams, and protocols in Java-based networking.
CO4	Students will gain expertise in using JDBC (Java Database Connectivity) to connect to relational databases, execute SQL queries, and process results.
CO5	Students will gain practical experience in developing web applications using Java Servlets and JSP (JavaServer Pages), focusing on request-response cycles, session management, and web application architecture.

Sr. No.	Particulars	Remark
1.	**Year**	III Year
2.	**Semester**	V Semester
3.	**No of Student Enrolled**	23
4.	**No of Student certified**	7
5.	**Overall remark by feedback**	Overall Feedback was good.
6.	**Action to be taken for future batch**	NIL

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Department of Advance Computing
Odd Semester- 2023-24

Add-on Course – Mobile Application Development

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to -

S. No.	Course Outcomes
CO1	Students will learn to set up development environments and select appropriate tools for mobile app development based on project requirements.
CO2	Students will develop the ability to design intuitive and responsive user interfaces (UIs) that provide a seamless user experience (UX) on mobile devices.
CO3	Students will learn how to develop native mobile applications using Android (Java/Kotlin) and iOS (Swift) programming languages, as well as cross-platform frameworks like Flutter or React Native.
CO4	Students will understand the mobile application lifecycle, including app startup, background tasks, state management, and handling configuration changes.
CO5	Students will learn how to deploy their mobile applications to the Google Play Store (for Android) or Apple App Store (for iOS) and understand the requirements for app submission and distribution.

Sr. No.	Particulars	Remark
1.	**Year**	III Year
2.	**Semester**	V Semester
3.	**No of Student Enrolled**	13
4.	**No of Student certified**	09
5.	**Overall remark by feedback**	Overall Feedback was good.
6.	**Action to be taken for future batch**	NIL

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Department of Advance Computing
Odd Semester- 2023-24

Add-on Course - SQL

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to -

S. No.	Course Outcomes
CO1	Students will gain the ability to write basic SQL queries to retrieve and manipulate data from relational databases, using SELECT, INSERT, UPDATE, and DELETE statements.
CO2	Students will develop a solid understanding of relational database concepts, including tables, primary and foreign keys, and relationships between entities (one-to-one, one-to-many, many-to-many).
CO3	Students will learn to write more advanced SQL queries, including JOINs (inner, outer, left, right) to combine data from multiple tables.
CO4	Students will understand how to manage database transactions using COMMIT, ROLLBACK, and SAVEPOINT, ensuring data integrity and consistency.
CO5	Students will learn how to optimize SQL queries for performance, understanding how to use indexes, views, and stored procedures to speed up data retrieval and manipulation.

Sr. No.	Particulars	Remark
1.	**Year**	III Year
2.	**Semester**	V Semester
3.	**No of Student Enrolled**	23
4.	**No of Student certified**	17
5.	**Overall remark by feedback**	Overall Feedback was good.
6.	**Action to be taken for future batch**	NIL

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Department of Advance Computing
Odd Semester- 2023-24

Add-on Course – Data Structure & Algorithm

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to -

S. No.	Course Outcomes
CO1	Students will gain a thorough understanding of fundamental data structures such as arrays, linked lists, stacks, queues, trees, graphs, and hash tables.
CO2	Students will learn various algorithm design techniques such as divide and conquer, greedy algorithms, dynamic programming, and backtracking.
CO3	Students will gain hands-on experience with fundamental sorting algorithms (e.g., Bubble Sort, Quick Sort, Merge Sort, Heap Sort) and searching algorithms (e.g., Binary Search, Linear Search).
CO4	Students will also master tree traversal techniques like pre-order, in-order, post-order, and level-order, and understand how to apply these techniques in different scenarios.
CO5	Students will develop problem-solving skills through algorithmic challenges, learning to break down complex problems and design efficient solutions.

Sr. No.	Particulars	Remark
1.	**Year**	III Year
2.	**Semester**	V Semester
3.	**No of Student Enrolled**	113
4.	**No of Student certified**	94
5.	**Overall remark by feedback**	Overall Feedback was good.
6.	**Action to be taken for future batch**	NIL

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POORNIMA
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Certificate/ Add-on/ Value Added Programs

Summary Reports
(Department of Information Technology)

Program Name: B.Tech (Information Technology)
Program Code: IT

Add-on Course- *C Language*

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Control the sequence of the program and give logical outputs
CO2	Implement strings in your C program
CO3	Manage I/O operations in your C program
CO4	Apply code reusability with functions and pointers
CO5	Explain the uses of pre-processors and various memory models

Sr. No.	Particulars	Remark
1.	**Year**	2nd Year
2.	**Semester**	IV Semester
3.	**No of Student Enrolled**	5
4.	**No of Student certified**	4
5.	**Overall remark by feedback**	As per the feedback, C is a general-purpose language, ideal for building mostly state-of-the-art system applications like OS kernels, databases, embedded systems, and graphics packages that are used by billions around the world.
6.	**Action to be taken for future batch**	Department will be used and assign the subject's syllabus according to the requirements.

Add-on Course- *Dynamic Web Development*

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Explain the history of the internet and related internet concepts that are vital in understanding web development
CO2	Discuss the insights of internet programming and implement complete application over the web.
CO3	Demonstrate the important HTML tags for designing static pages and separate design from content using Cascading Style sheet.
CO4	Utilize the concepts of JavaScript and Java
CO5	Use web application development software tools i.e. Ajax, PHP and XML etc. and identify the environments currently available on the market to design web sites

Sr. No.	Particulars	Remark
1.	Year	2nd Year
2.	Semester	IV Semester
3.	No of Student Enrolled	7
4.	No of Student certified	7
5.	Overall remark by feedback	As per the feedback, This Course will equip the students with skills required for designing, developing web applications in Information Technology.
6.	Action to be taken for future batch	Department will be used and assign the subject's syllabus according to the requirements.

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Add-on Course-*Java*

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Understand the concepts related to Java Technology
CO2	Ability to write programs in java to solve problems using divide and conquer strategy.
CO3	Ability to write programs in java to solve problems using backtracking strategy
CO4	Ability to write programs in java to solve problems using greedy and dynamic programming techniques
CO5	Develop advanced skills for programming in Java

Sr. No.	Particulars	Remark
1.	Year	2nd Year
2.	Semester	IV Semester
3.	No of Student Enrolled	33
4.	No of Student certified	33
5.	Overall remark by feedback	As per the feedback, This Course should covers recent techniques, students be able to develop advanced skills for programming in Java
6.	Action to be taken for future batch	Department will be used and assign the subject's syllabus according to the requirements.

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Add-on Course- *Python*

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Interpret the fundamental Python syntax and semantics and be fluent in the use of Python control flow statements.
CO2	Express proficiency in the handling of strings and functions.
CO3	Determine the methods to create and manipulate Python programs by utilizing the data structures like lists, dictionaries, tuples and sets.
CO4	Identify the commonly used operations involving file systems and regular expressions.
CO5	Articulate the Object-Oriented Programming concepts such as encapsulation, inheritance and polymorphism as used in Python

Sr. No.	Particulars	Remark
1.	**Year**	2nd Year
2.	**Semester**	IV Semester
3.	**No of Student Enrolled**	16
4.	**No of Student certified**	16
5.	**Overall remark by feedback**	As per the feedback, This Course should covers recent techniques, students be able to articulate the Object-Oriented Programming concepts such as encapsulation, inheritance and polymorphism as used in Python
6.	**Action to be taken for future batch**	Department will be used and assign the subject's syllabus according to the requirements.

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Add-on Course- *C ++*

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Describe OOPs concepts
CO2	Use functions and pointers in your C++ program
CO3	Describe and use constructors and destructors
CO4	Understand and employ file management
CO5	Demonstrate how to control errors with exception handling

Sr. No.	Particulars	Remark
1.	Year	3rd Year
2.	Semester	VI Semester
3.	No of Student Enrolled	6
4.	No of Student certified	6
5.	Overall remark by feedback	As per the feedback, This Course should covers recent techniques, students be able to allow the programmer to create objects within the code. This makes programming easier, more efficient, and some would even say, more fun.
6.	Action to be taken for future batch	Department will be used and assign the subject's syllabus according to the requirements.

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Add-on Course- *Advance Java*

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Understand the concepts related to Java Technology
CO2	Explore and understand use of Java Server Programming
CO3	Students learn skills to develop real time applications
CO4	Students learn to access database through Java programs, using Java Database Connectivity (JDBC)
CO5	Develop advanced skills for programming in Java

Sr. No.	Particulars	Remark
1.	Year	3rd Year
2.	Semester	VI Semester
3.	No of Student Enrolled	3
4.	No of Student certified	2
5.	Overall remark by feedback	As per the feedback, This Course should covers recent techniques, students be able to put into use the advanced features of the Java language to build and compile robust enterprise grade applications.
6.	Action to be taken for future batch	Department will be used and assign the subject's syllabus according to the requirements.

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Add-on Course- *MAD*

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Identify various concepts of mobile programming that make it unique from programming for other platforms
CO2	Critique mobile applications on their design pros and cons
CO3	Utilize rapid prototyping techniques to design and develop sophisticated mobile interfaces
CO4	Program mobile applications for the Android operating system that use basic and advanced phone features.
CO5	Deploy applications to the Android marketplace for distribution

Sr. No.	Particulars	Remark
1.	**Year**	3 $^{r\ d}$ Year
2.	**Semester**	VI Semester
3.	**No of Student Enrolled**	5
4.	**No of Student certified**	5
5.	**Overall remark by feedback**	Android will be used as a basis for teaching programming techniques and design patterns related to the development of standalone applications and mobile portals to enterprise and mcommerce systems. Emphasis is placed on the processes, tools and frameworks required to develop applications for current and emerging mobile computing devices.
6.	**Action to be taken for future batch**	Department will be used and assign the subject's syllabus according to the requirements.

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Add-on Course- *SQL*

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Implement Basic DDL, DML and DCL commands
CO2	Understand Data selection and operators used in queries and restrict data retrieval and control the display order
CO3	Use Aggregate and group functions to summarize data
CO4	Join multiple tables using different types of joins
CO5	Understand the PL/SQL architecture and write PL/SQL code for procedures, triggers, cursors, exception handling etc

Sr. No.	Particulars	Remark
1.	Year	3 rd Year
2.	Semester	VI Semester
3.	No of Student Enrolled	7
4.	No of Student certified	7
5.	Overall remark by feedback	As per the feedback, This Course should covers recent techniques, students be able to put into use the advanced features of the Java language to build and compile robust enterprise grade applications.
6.	Action to be taken for future batch	Department will be used and assign the subject's syllabus according to the requirements.

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Add-on Course- *DSA*

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Understand the concept of Dynamic memory management, data types, algorithms, Big O notation
CO2	Understand basic data structures such as arrays, linked lists, stacks and queues
CO3	Describe the hash function and concepts of collision and its resolution methods
CO4	Solve problem involving graphs, trees and heaps
CO5	Apply Algorithm for solving problems like sorting, searching, insertion and deletion of data

Sr. No.	Particulars	Remark
1.	Year	3rd Year
2.	Semester	VI Semester
3.	No of Student Enrolled	30
4.	No of Student certified	30
5.	Overall remark by feedback	As per the feedback, This Course should covers recent techniques, students use the appropriate data structure in context of solution of given problem. Develop programming skills which require to solve given problem
6.	Action to be taken for future batch	Department will be used and assign the subject's syllabus according to the requirements.

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Dr. Mahesh Bundele
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POORNIMA
COLLEGE OF ENGINEERING

Approved by AICTE
Affiliated to Rajasthan Technical University, Kota
Recognized by UGC under Section 2(f) of the UGC Act, 1956

Certificate/ Add-on/ Value Added Programs

Summary Reports
(Department of Electronics
And Communication Engineering)

Program Name: B.Tech (Electronics and
Communication Engineering)
Program Code: EC

ISI-6, RIICO Institutional Area, Sitapura, Jaipur-302022 (Rajasthan)
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POORNIMA
COLLEGE OF ENGINEERING

Department of Electronics and Communication Engineering
Odd Semester- 2023-24
Add-on Course- JAVA

COURSE OUTCOMES: After successful completion of this course Students will be able to

S.NO	Course Outcomes
CO1	To understand the basic concepts of java
CO2	To eleborate the concept of file handling, multithreading and applets
CO3	To design the steps for creating the project using major concept
CO4	To design the steps for creating the project using major concept

Sr. No.	Particulars	Remark
1.	Year	2nd and 3rd Year
2.	Semester	III and V Semester
3.	No of Student Enrolled	01
4.	No of Student certified	00
5.	Overall remark by feedback	Overall Feedback was good
6.	Action to be taken for future batch	NIL

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COURSE OUTCOMES: After successful completion of this course Students will be able to

S.No.	Course Outcomes
CO1	Students grasp Python syntax and manipulate integers, floats, strings, lists, tuples, and dictionaries effectively.
CO2	Students excel in Python's control structures (if, for, while) for effective program flow control..
CO3	Students master defining functions, passing arguments, and using return statements.
CO4	Students grasp file handling: read/write data, manage contents, handle errors, and follow best practices.

Sr. No.	Particulars	Remark
1.	Year	2nd and 3rd Year
2.	Semester	III and V Semester
3.	No of Student Enrolled	05
4.	No of Student certified	04
5.	Overall remark by feedback	Overall Feedback was good
6.	Action to be taken for future batch	NIL

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Department of Electronics and Communication Engineering
Odd Semester- 2023-24
Add-on Course- Structured Query Language

COURSE OUTCOMES: After successful completion of this course Students will be able to

S.NO	Course Outcomes
CO1	To understand the basic concepts of SQL
CO2	To eleborate the concept of file handling, multithreading and applets
CO3	To design the steps for creating the project using major concept
CO4	To design the steps for creating the project using major concept

Sr. No.	Particulars	Remark
1.	Year	2nd and 3rd Year
2.	Semester	III and V Semester
3.	No of Student Enrolled	1
4.	No of Student certified	1
5.	Overall remark by feedback	Overall Feedback was good
6.	Action to be taken for future batch	NIL

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Department of Electronics and Communication Engineering

Odd Semester- 2023-24

Add-on Course- Data structures and algorithms (C++)

Summary Report

COURSE OUTCOMES : After successful completion of this course Students will be able to

S.NO	Course Outcomes
CO1	To explain data structures and their use in daily life.
CO2	To analyze the Linear and non-Linear data structures like stack, Queues, link list, Graph, Trees to solve real time problems.
CO3	To develop searching and sorting algorithms on predefined data.
CO4	To create the data structures in specific areas like DBMS, Compiler, Operating system.

Sr. No.	Particulars	Remark
1.	Year	2nd and 3rd Year
2.	Semester	III and V Semester
3.	No of Student Enrolled	14
4.	No of Student certified	13
5.	Overall remark by feedback	Overall Feedback was good.
6.	Action to be taken for future batch	NIL

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Department of Electronics and Communication Engineering
Odd Semester- 2023-24
Add-on Course- Dynamic Web Development

COURSE OUTCOMES: After successful completion of this course Students will be able to

S.NO	Course Outcomes
CO1	To Understanding and applying **Web Networking basics** including TCP/IP, HTTP(S), URLs, and DNS.
CO2	To Understanding the role and functions of **Web servers and server frameworks.**
CO3	To develop basic **Security** concepts, threats and mitigation techniques for web developers.
CO4	To create create a multi-user website/app utilizing password based authentication with role based access control for authorization and understand the security issues associated with such a website.

Sr. No.	Particulars	Remark
1.	Year	2nd and 3rd Year
2.	Semester	III and V Semester
3.	No of Student Enrolled	7
4.	No of Student certified	4
5.	Overall remark by feedback	Overall Feedback was good
6.	Action to be taken for future batch	NIL

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