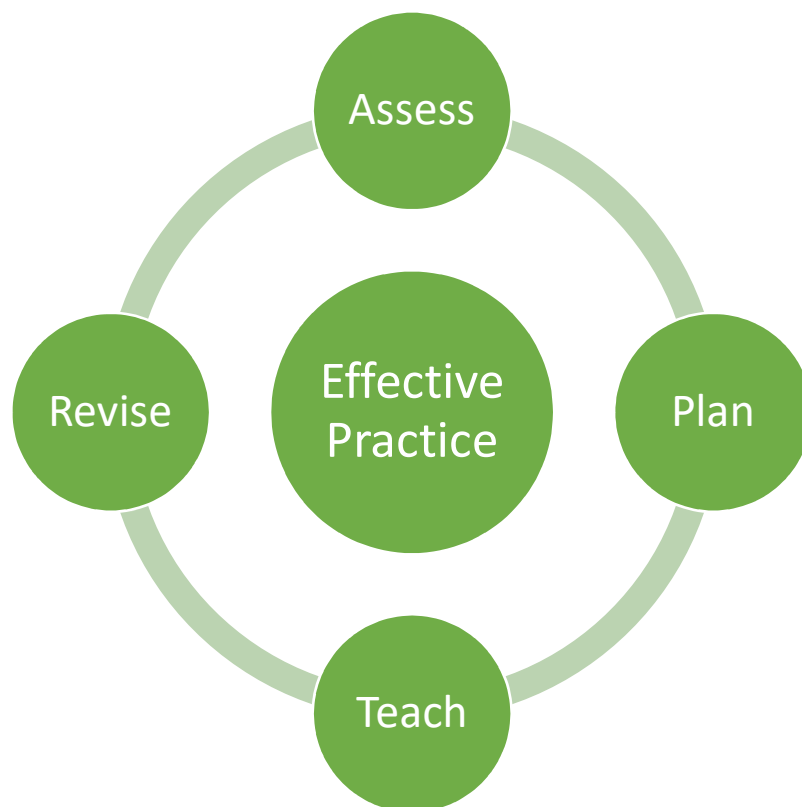




NAAC PEER TEAM VISIT



Criterion II

Teaching – learning and Evaluation



VIDYAA VIKAS

COLLEGE OF ENGINEERING AND TECHNOLOGY

Tiruchengode – 637214



Contact: 94421 41122, 94422 48999

Web: www.vvcet.ac.in

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Table of Contents

S.No.	Metric
1	Introduction
2	Student Enrolment and profile
3	Average Percentage of Seats Filled against Reserved Categories
4	Teaching Learning Process: Student Centric Methods
5	Participatory Learning
6	Experiential learning
7	Problem Solving Methodology
8	Classroom Technologies & ICT Supported Learning
9	Teachers Profile and quality
10	Evaluation process and reforms
11	Student Performance and Learning Outcomes



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INTRODUCTION

VVCET, being an affiliated institution under Anna University Chennai. The undergraduate programs at our college admit students through the Single Window Admission System managed by the Directorate of Technical Education, while admission to the postgraduate courses is based on the Tamil Nadu Common Entrance Test conducted by Anna University and Consortium. We have implemented various initiatives to support rural and underprivileged students, including offering bridge courses before the commencement of the degree program. The admission process of the first and direct second year is transparent and regulated by the Directorate of Technical Education (DOTE), Government of TamilNadu. Students from different diversity including category, gender and locality are enrolled in the institution.

We have implemented various initiatives to support rural and underprivileged students, including offering bridge courses before the commencement of the degree program. Each semester, we prepare academic calendars at the institutional and departmental levels in accordance with Anna University guidelines.

Our primary focus in the teaching and learning process is experiential, participative, and problem-solving learning. We encourage ICT-friendly teaching through platforms such as the ILMS, Google Classroom, and PowerPoint presentations. Our central library is stocked with the latest textbooks and reference materials, and we provide online access to journals and e-resources for all students.

We have also established a mentoring system to address academic and stress related issues faced by our students. Additionally, we identify both advanced and slow learners and provide tailored programs and support to meet their needs. Our approach includes remedial classes, bridge courses, and counseling for slow learners. Throughout the semester, we conduct Class Committee meetings to communicate departmental rules and regulations, discuss syllabus completion, and gather feedback on academic and administrative challenges.

Our internal assessment mechanism is transparent and robust, and we have established a time-bound and efficient process to handle examination-related grievances. We ensure that both teachers and students are well-informed about program outcomes and course outcomes.

Furthermore, our institution practices outcome-based education by defining appropriate Program Outcomes (POs), Program Specific Outcomes (PSOs), and Course



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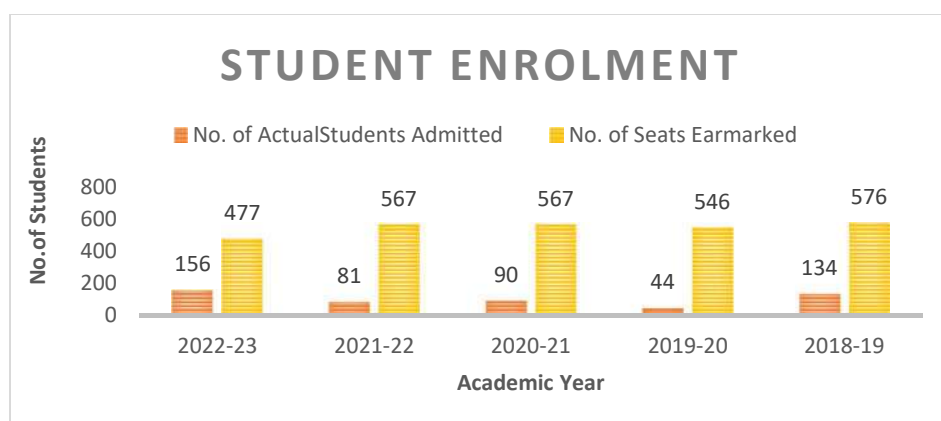
Outcomes (COs) for all programs, and we communicate this information to our faculty and students. We consistently measure student performance based on the attainment of learning outcomes in each program and incorporate appropriate improvement measures in content delivery, assessment, and evaluation to enhance skills and competencies.

2.1 Student Enrolment and profile

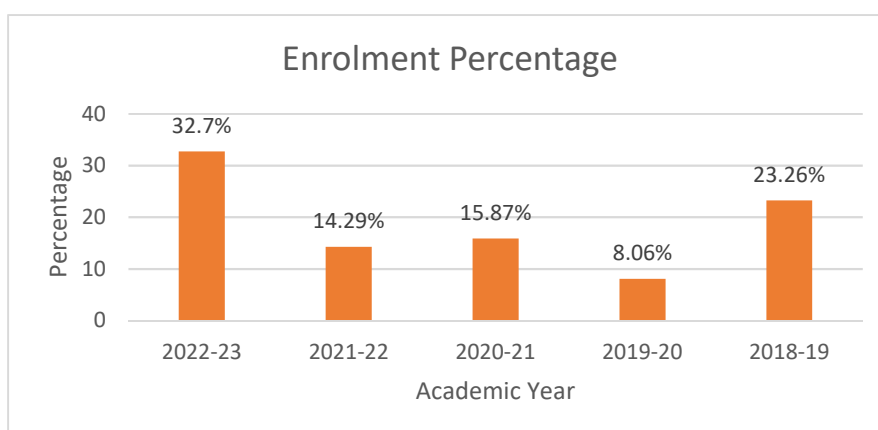
2.1.1.1 Number of seats filled year wise during last five years (Only first year admissions to be considered)

2.1.1.2 Number of sanctioned seats year wise during last five years

Academic Year	2022-23	2021-22	2020-21	2019-20	2018-19
No. of Actual Students Admitted	156	81	90	44	134
No. of Seats Earmarked	477	567	567	546	576



2.1.1 Enrolment percentage





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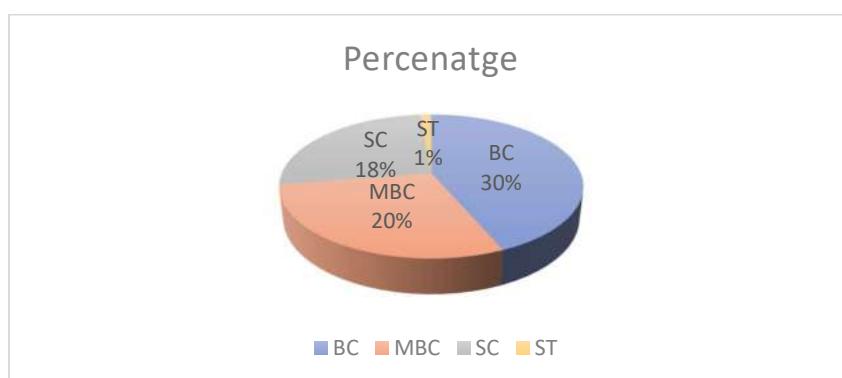
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2.1.2 Average percentage of seats filled against reserved categories

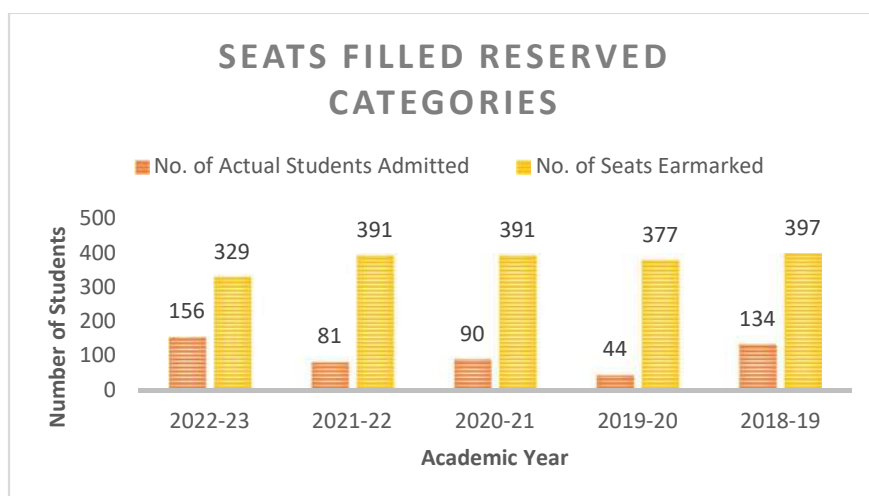
2.1.2.1 Number of actual students admitted from the reserved categories year wise during last five years

2.1.2.2 Number of seats earmarked for reserved category as per GOI/ State Govt rule year wise during the last five years

Reservation Policy followed in the state of Tamilnadu



Academic Year	2022-23	2021-22	2020-21	2019-20	2018-19
No. of Actual Students Admitted	156	81	90	44	134
No. of Seats Earmarked	329	391	391	377	397





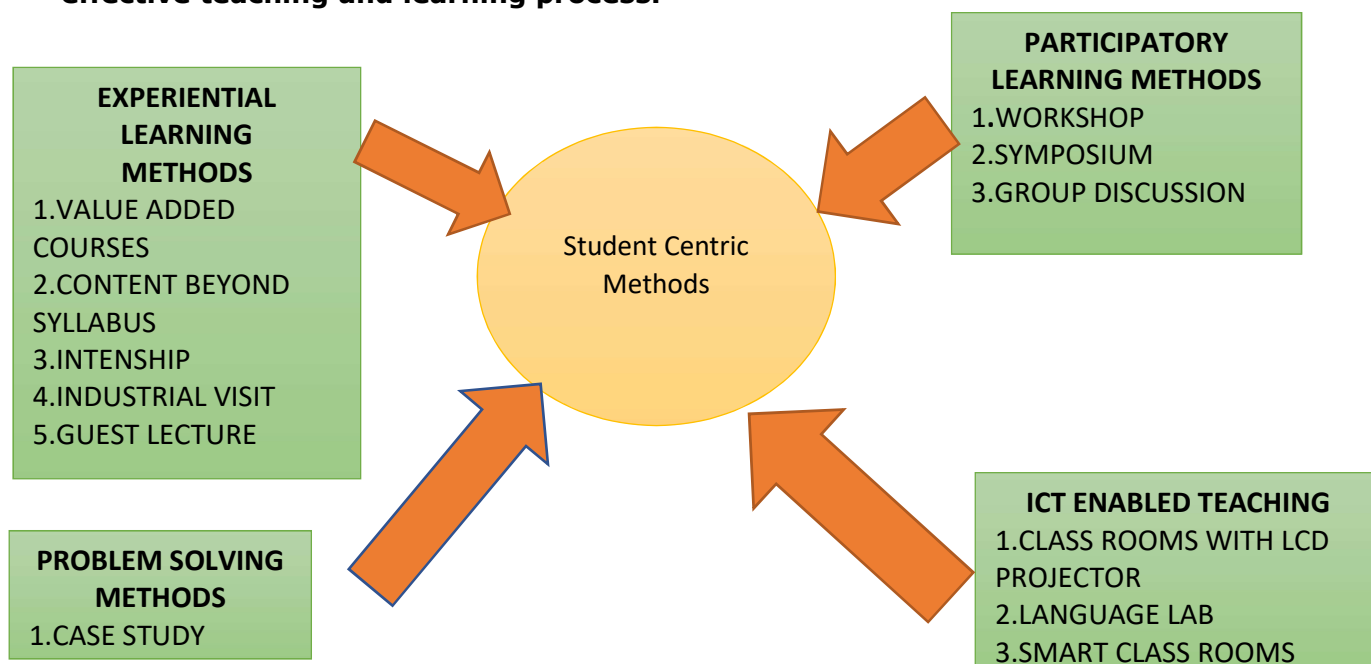
2.2 Student Teacher Ratio

2.2.1 Student – Full time Teacher Ratio

Academic Year	Total number of students enrolled in the institution	Total number of full-time teachers in the institution	Students – Teacher Ratio
2022-23	501	132	1:4

2.3 Teaching- Learning Process

2.3.1 Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences and teachers use ICT- enabled tools including online resources for effective teaching and learning process.



It is ensured that the text written on the board is legible and large enough to read from the last bench of the room. The faculty use the green board most of the time and effectively uses the entire board by Partitioning them into columns to ensure the flow. The students take notes of whatever is presented to them on the board. The faculty also provide enough time for students to draw the illustrations/ figures on the board. Any new term introduced to the students is written on the board to ensure they learn it correctly



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on the first attempt. Faculty also makes use of colored chalk to provide differential emphasis to students.

Description about centric methods

The institution provides different centric learning methods by creating a good atmosphere through which the students think in different way, answers and pose queries. Faculties, by playing an important role of facilitators, create discussions in classrooms among students and let the brainstorming evolve from student's perspective. By different experiential learning and participative learning activities, the students can able to broaden their scope of education by imparting valuable thinking. During the tutorial hours the students are stimulated their own way of thinking by building problems/case studies by providing individual attention to them. The faculties are encouraged to undergo different workshop activities, short term Training programs, Faculty Development Programs, online courses for effective design and exercise the student centric activities. For better classroom teaching, the teachers are advised to follow an academic plan (Lesson Plan), which contains the details regarding course objectives, details of contents to be covered, previous years internal and university question papers are referred. Special lectures, different illustration activities, field study, case studies, project-based activities, experimental and group learning methods are included in problem solving methodologies. In order to improve the interactive, collaborative and independent learning process the college organizes guest lecturers and arranges industrial visits to the student. To bring out the course interest during their library hours the students are allowed to utilize digital library with video lectures, e-books and e-journals. The performance of the students is measured through internal and class tests, during practical hours and seminar hours. Our institution followed experiential learning, participatory learning and problem-solving methodologies for enhancing learners' learning experience. Various Participatory learning activities followed in our institution.



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EXPERIENTIAL LEARNING METHODS

- Department conducts add-on/ value added programs to support students in their experiential learning.
- Value-added courses can help students gain practical exposure, industry insights, certification, networking, and career guidance.
- Laboratory Sessions are conducted with content beyond syllabus experiments.
- Internship -Students get hands on training while working in the company.
- Industrial Visits to engage them in experiential learning.
- Guest lectures by eminent experts from industry and academics are organized to provide experiential learning.

Workshop to provide Experiential Learning

- Practical exposure is provided by conducting hands on workshops and value added courses .



Add-on/ value added programs

Courses aim to provide learner centric technical training. The main objectives of the program are:

- To provide students an understanding of the expectations of industry.
- To improve employability skills of students
- To bridge the skill gaps and make students industry ready.
- To provide an opportunity to students to develop inter-disciplinary skills.



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Academic Year	2022-23	2021-22	2020-21	2019-20	2018-19
No. of value added courses conducted	20	20	05	06	05
No.of Students Completed	410	290	312	436	673



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VIDYAA VIKAS COLLEGE OF ENGINEERING AND TECHNOLOGY
TIRUCHENGODE – 637 214
Approved by AICTE - New Delhi, Affiliated to Anna University - Chennai

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Submitted to the Principal: _____ Date: 25-03-2022

Sub: Solicitation of Approval for the Conduction of the "Value Added Course on "Advanced Technology in Data Science" for our students – Reg.

We propose to conduct a "Value Added Courses – Advanced Technology in Data Science" for the IInd CSE Class students in this academic year 2021 – 2022 through the training organization VI Solutions, Bangalore. This training will help our students to acquire more practical knowledge on the above said topic and help them to excel in their career.

The details of the Value Added Course have been enclosed along with this letter for your kind perusal.

It is requested that permission may kindly be granted to organize the same.

Course Co-Ordinator _____ HOD/CSE _____ Principal _____

Principal, VIDYAA VIKAS COLLEGE OF ENGINEERING AND TECHNOLOGY, TIRUCHENGODE-637 214.

VIDYAA VIKAS COLLEGE OF ENGINEERING AND TECHNOLOGY
TIRUCHENGODE
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Value Added Course on
ADVANCE TECHNOLOGY IN DATA SCIENCE

Course Content

- ❖ BASICS OF DATA SCIENCE
- ❖ DATA HANDLING
- ❖ EXCEL FOR DATA SCIENCE

Coordinator: Ms. S. Revathi AP / CSE

Course Instructor: Ms. S. Deepika Trainer VI Solutions Bangalore

Date: 21.04.2022 TO 04.05.2022

Principal, VIDYAA VIKAS COLLEGE OF ENGINEERING AND TECHNOLOGY, TIRUCHENGODE-637 214.

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TIRUCHENGODE – 637 214
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Value Added Course
Student Name List

Course name: Advanced Technology in Data Science

S. No	Reg. No.	Name
1	733120104001	ARJUN M
2	733120104002	ARULMOZHI E
3	733120104003	AYYAPPAN V
4	733120104004	CHIDAMBARAM S
5	733120104005	DHANUSH S
6	733120104006	DURGA K
7	733120104007	DURGA S
8	733120104008	GAYATHRI K
9	733120104009	GNANASEKAR A
10	733120104011	HARINI G
11	733120104012	INDHUMATHI D
12	733120104013	KARTHIK KUMAR M
13	733120104015	KAVIN E
14	733120104016	LOGESH B
15	733120104017	MAHALAKSHMI B
16	733120104018	MANICKARAJ M
17	733120104019	NIVETHINI M
18	733120104020	PRAVEEN KUMAR A
19	733120104021	PRIYADARSHINI V
20	733120104022	RAMESH P
21	733120104023	RAMYA D
22	733120104024	RAMYA R
23	733120104025	SAVITHA A
24	733120104026	SENTHILKUMAR S
25	733120104027	SIVA S
26	733120104028	SIVARANJANI S
27	733120104029	SUBHASHINI S
28	733120104030	THIRISHA S
29	733120104031	VASANTH S
30	733120104032	BALA K
31	733120104033	GUNASEKAR K
32	733120104034	PRAKASH M
33	733120104035	SANTHOSH KUMAR S
34	733120104036	SRINATH B
35	733120104037	SUVATHI N

Course Co-Ordinator _____ HOD/CSE _____ Principal _____

Principal, VIDYAA VIKAS COLLEGE OF ENGINEERING AND TECHNOLOGY, TIRUCHENGODE-637 214.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

REPORT ON VALUE ADDED COURSE

Name of the Course : Advanced Technology in Data Science

Name of the Coordinator : Ms.S.Revathi , AP/ CSE

Academic Year : 2021-22

Advanced Technology in Data Science course conducted from 21.04.2022 to 25.05.2022. The total duration of the course was 40 Hours. Total 35 students have attended the course. Resource person Ms.S.Deepika from VI Solutions, Bangalore has covered the syllabus

The main topics covered in the course were Data Science, Steps in doing Data Science, Data Science relation to other fields, Data Science and Information Science, Computational Thinking, Skills and tools needed to do Data Science. The students were interacted with the resource person by asking the questions related to topic like these technologies offer powerful computational capabilities, allowing faster and more accurate data analysis. Secondly, they provide a wide range of tools and libraries that simplify the implementation of complex algorithms and models as well as the reality in the industrial expectation. Thus the students were effectively used this session for improving the technical skills for their career.

Co-ORDINATOR _____ HOD/CSE _____ Principal _____

Principal, VIDYAA VIKAS COLLEGE OF ENGINEERING AND TECHNOLOGY, TIRUCHENGODE-637 214.



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CONTENT BEYOND EXPERIMENT

In our institution we are conducting laboratory sessions as per Anna University Chennai Curriculum. We are conducting content beyond syllabus experiments for each laboratory to meet PO and CO.

S.NO.	DEPARTMENT	LABORATORY DETAILS
1	Science and Humanities	Problem Solving and Python Programming Laboratory
2		Engineering Practices Laboratory
3		Physics Laboratory
4		Chemistry Laboratory
5	Mechanical Engineering	Computer Aided Machine Drawing
6		Manufacturing Technology Laboratory
7		Strength of Materials and Fluid Machinery Laboratory
8		Thermal Engineering Laboratory
9		Metrology And Dynamics Laboratory
10		CAD/CAM Laboratory
11		Heat Transfer Laboratory
12	EEE	Electronic Devices and Circuits Laboratory
13		Electrical Machines Laboratory - I
14		Electrical Machines Laboratory – I
15		Linear and Digital Circuits Laboratory
16		Microprocessor and Microcontroller Laboratory
17		Control and Instrumentation Laboratory
18		Power Electronics Laboratory
19		Power System Laboratory



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S.NO.	DEPARTMENT	LABORATORY DETAILS
20	CSE	C Programming and Data Structures Laboratory
21		Data Structures Laboratory
22		Object Oriented Programming Laboratory
23		Data Science Laboratory
24		Operating Systems Laboratory
25		Database Management Systems Laboratory
26		Computer Networks Lab
27	ECE	CIRCUIT ANALYSIS LABORATORY
28		Electronic Devices and Circuits Laboratory
29		Digital Electronics Lab
30		Communication Systems Laboratory
31		Digital Signal Processing Lab
32		Linear Integrated Circuits Laboratory
33		VLSI Laboratory
34	Civil	Surveying and Levelling Laboratory
35		Water and Wastewater Analysis Laboratory
36		Hydraulic Engineering Laboratory
37		Materials Testing Laboratory
38		Soil Mechanics Laboratory
39		Highway Engineering Laboratory
40		Building Drawing and Detailing Laboratory



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Department of Civil Engineering

Strength of Materials Lab



Fig: 1 Students are doing Experiments in Strength of material lab

Strength of material laboratory provides the basic knowledge of strength of materials and the students can perform different tests on variety of materials. Experiments are performed to measure the properties of materials such as impact strength, tensile strength, compressive strength, hardness, etc.



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Department of Mechanical Engineering

Fluid Mechanics Lab



Fig: 2 Students are doing Experiments in Fluid Mechanics Lab

This Laboratory consists of flow measurement devices, head loss measurement in pipe flow, impact of water jet on vanes, flow visualization apparatus, hydraulic pumps and turbines. The students will experimentally demonstrate the knowledge gained from fluid mechanics.



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Measurement and Instrumentation Lab



Fig 3: Students are doing Experiment in Measurement and Instrumentation Lab

In industrial processes, measurement and efficient control of parameters plays a crucial role so as to maintain the quality of the products produced and the process behind it. The Main Objective is to impart knowledge on handling various measurement devices, sensors and control units.



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Department of Electronics and Communication Engineering

Digital Electronics Lab



Fig 4: Students are doing Experiment in Digital System Design Lab

Digital systems are designed to store, process, and communicate information in digital form. They are found in a wide range of applications, including process control, communication systems, digital instruments, and consumer products. Students learn to navigate and manage the technical constraints of a project while considering business and brands.



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Department of Computer Science and Engineering

Data Science Lab



Activities and Objectives

- To apply quantitative modeling and data analysis techniques to the solution of real-world business problems, communicate findings, and effectively present results using data visualization techniques.
- To demonstrate knowledge of statistical data analysis techniques utilized in business decision making.
- To apply principles of Data Science to analyze the business problems.
- To develop a basic understanding of the building blocks of Artificial Intelligence as presented in terms of intelligent agents: search, knowledge representation, inference, logic, and learning.
- To apply algorithms to build machine intelligence.



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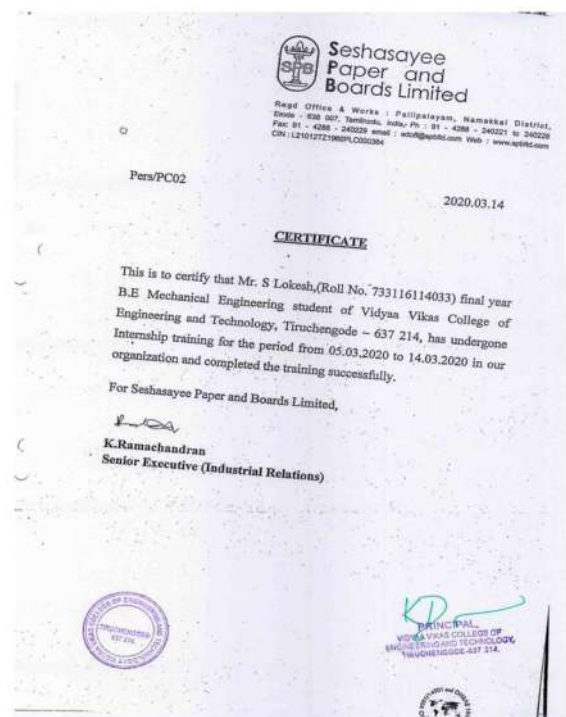
Internship

Internships assist students in developing, enhancing, and applying their communication, leadership, problem-solving, and critical-thinking skills. It allows students to reflect on their professional experiences and demonstrate their potential, proficiency, and talents.

In our Institution we encourage the students to undergo internship during summer and winter holidays.

Importance of Internship for Engineering Students

- Real-World Application of Knowledge. Classroom lectures and textbooks provide students with valuable theoretical knowledge.
- Skill Enhancement.
- Networking Opportunities.
- Insight into Industry Dynamics.
- Resume Building and Career Opportunities.





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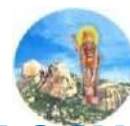




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INDUSTRIAL VISIT

Main aim of industrial visit is to provide an exposure to students about practical working environment. They also provide students a good opportunity to gain full awareness about industrial practices.

Industrial visits are not merely educational outings; they are transformative experiences that mold well-rounded individuals prepared for the challenges of the professional world.

INDUSTRIAL VISIT-KODAI FM-Report

Duration: Two Days (23.09.2022 & 24.09.2022)

Number of Students: 16 Girls

Departments: Civil, CSE, ECE, EEE & Mech -Girls

Accompanied Faculty Members: Mr. B.Ravi ASP/Phy, Mr. S.Vigneshwaran AP/Eng,
Ms. P.Amutha AP/Che, Ms A. Sharlin AP/EEE

Company Name: Kodai FM 100.5 Hz, Kodaikanal

Day 1 (23.09.2022)

On 23.09.2022 at 2.30 Am, 16 Girls students of all departments and 4 faculty members left the college campus for an industrial visit to KODAI FM 100.5, Kodaikanal. We reached majestic Silver cascade waterfalls at 9.00 Am. Students enjoyed the beauty of the falls. After we took breakfast at a hotel, we entered marvelous man made water body and Heart of Kodaikanal, Star Lake at 11.00 am. Our students enjoyed the raiding bicycles, horses & boats to roam around seven kilometer stretch of the star shaped stunning Lake and Bryant Park in kodaikanal. Accommodation was arranged in Sri Sathya Sai Seva Organization, Kodaikanal.

We visit Kodai FM 100.5Hz at 4.00 pm, Team was welcomed by Radio Jockey Mr. John Brito and his colleagues, our students are shown the each and every part of the broadcasting center and its operation such as preparing, reharsaling, and broadcasting of the events(programmes) in Kodai FM. Students and staff members are interviewed and this interview was said to be propagated in upcoming days. Our students are get knowledge on different stages of functioning of telecasting programmes in frequency Modulation.



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Then we visit Rose garden. We were mesmerized by the beauty and variety of colourful roses and returned to Sri Sathya Sai Seva Organization, Kodaikanal at 7.00 pm.

Day 2 (24.09.2022)

Second day In kodaikanal starts with divine bajan and speech by Sairam, Sri Sathya Sai Seva Organization, Kodaikanal. Then after breakfast we visit Moir point, Pine Forest, Guna Cave, Pillar Rock and Green Valley. We were confirmed that kodaikanal is indeed the 'princesses of hills'. The winter season blankets the valley with a white mist that associate to form a panoramic visual that is incomparable to anything else we have ever seen.

After Lunch in a hotel, we came down from the wonderful white cloud-painted mountains, and reached Palani Arulmigu Dhandayuthapaniswamy Temple at 7.00pm and get darshan and took dinner. We started our journey to our college and reached at 11 pm.



Majestic Silver Cascade Waterfalls



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Sri Sathya Sai Seva Organization, Kodaikanal



At Kodai FM 100.5Hz, Kodaikanal.



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Recording the interview at Kodai FM 100.5Hz, Kodaikanal



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INDUSTRIAL VISIT TO KKNPP- SUMMARY

Date of Visit: 09-06-2023

Duration: 9.30am – 4.30 pm.

Class: I & All Branches

Students: 53

Accompanied faculty members : 1.Mr. B.Ravi ASP/Phy,
2. Mr.K.S.Gowtham AP/Mech,
3. Mrs.J.Padmapriya AP/Maths
4. Mrs.S.Gomathi AP/Maths

Company Name

: Kudankulam Nuclear Power Plant

Keloor - Kudankulam Road, Kudankulam,
Tirunelveli, Tamil Nadu

Name of the Engineer

: 1. R. Velmail Murugan
Member, Public Awareness Committee
9489046177.

2. Mr. A.V.Sathish,
Manager, Public Awareness and Press Relation
9488643657.

Report

Day one (08.06.2023)

On 07.06.2023 at 10.0 PM, a group of 53 First year students and 4 faculty members left the college campus in two buses for an Industrial Visit to KKNPP. On Thursday (08.06.2023) at 5.30 am, the members reached Kanyakumari. Accommodation was arranged in the hotels Triveni Tourist home and Raja Palace. All the members reached the seashore at 5.45 AM. It was a great feast for everyone's eyes to see the Sun emerging from the waters far away. After taking the breakfast, we went to Suchindram temple which is dedicated to three different deities represented by one image in the sanctum and is called **Sthanumalayam** (Sthanu-Shiva; Maal-Vishnu and Ayam-Brahma) kovil. The temple is rich in sculpture and architecture and Thiruparapu falls, which is having 50 feet height, there we took nice bath. Everybody was spell bound with falling water and nature. After having lunch, we returned to Kanyakumari to see the marvelous sun set in the sea shore. There, we saw the wonders



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of the sites, the famous Vivekananda rock memorial, which is an inspiring site and Thiruvalluvar's rock where a gigantic statue (133 feet) high of Thiruvalluvar attracts people from all over the world. Next, we visited Gandhi mandapam a memorial for the father of our nation. then we returned to hotel take rest.

Day Two (09.06.2023)

The second day, our team started our journey to Kudankulam Nuclear Power Project (KKNPP) on an Industrial Visit.

The team was welcomed by the Project Engineer. Before entering the power generating section, an orientation lecture was given by Mr.N.K.Asokan, the Scientific Officer in the auditorium specially meant for this purpose. The importance of power in the light of the production and consumption was clearly remarked by the project Engineer. There was a wonderful interaction between the students, staff and the project Engineer.

The Students were divided into groups and special talented persons were allotted. They explained in detail about the functioning of the Project. The team was taken quite near the sea shore and everybody enjoyed the sight besides understanding the way in which the Project functions. KKNPP officials offered tea, snacks and lunch to all the participants. At 4.00 pm the team left the campus and started journey towards their native place. Through this visit, we understood the concepts behind the power production and distribution from the atomic reactor. And also the risk factors associated with power generation.

CONCLUSION

Students have experienced the real feel of power generation and safety precautions which is adopted in KKNPP. This will help students to understand how the electricity is produced from nuclear reactions. We would like to extend our gratitude to KKNPP for giving permission and support to make our visit as a successful and memorable one.



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GALLERY





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INDUSTRIAL VISIT TO -DODDAPETTA TEA FACTORY AND MEUSIUM

Date of Visit: 08-03-2024

Duration: 2.00pm – 4.30 pm.

Year & Branch: I & CSE, CSE (SC), AI&DS, ECE, EEE and MECH Students: 50 (22 Boys +28 Girls)

Accompanied faculty members: 1.Mr. B.Ravi ASP/Phy,
2. Mr.Danaseelan PL/CSE,
3. K.T.Jawahar AP/MBA,
4. Mrs.G.Sowmiya AP/CIVIL
5. Mrs.Pattu PL/MBA

Company Name : DODDAPETTA TEA FACTORY AND MEUSIUM
Doddapetta Road,. Udhagamandalam, Tamil Nadu

Name of the Contact Person : 1. Mr. Diwahar,
Doddapetta Tea Factory and Museum
Ph: 7010240816
Mail: dtfstock@gmail.com

REPORT

Day one (8.03.2024)

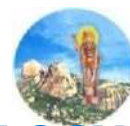
On 07.03.2024 (Thursday) at 11.0 PM, a group of 50 first year students and 5 faculty members, left the college campus in two buses for an Industrial Visit to Doddapetta Tea Factory And Museum, Ooty. On Friday (08.03.2024) at 6.30 am, the members reached Ooty, which is famously known as a misty hill station spread across a lush green carpet in Tamil Nadu that nestles serenely in the Nilgiri District. Accommodation was arranged in Hills Stay Resort. After Refreshing and breakfast, we went to Karnataka Siri Horticulture Garden which is one of the best gardens maintained by Karnataka in Tamil Nadu. The real enjoyment is on seeing each and every trees and plants and huge garden with a hanging Bridge. Beautiful tea garden view from the bridge is really wonderful. Then we visited to boating house which has man-made lake in an elegant way to enjoy the serene view and rich biodiversity.



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After having lunch, we visited to **Doddapetta Tea Factory And Museum** as an Industrial Visit, which is among the highest-elevation tea factory of the Nilgiris, established 15 years ago, with a view to produce and promote purely authentic Nilgiri teas. We studied the process involving in manufacturing of different types of tea and chocolates from it raw materials. Next, we visited Government Botanical Garden in Udthagamandalam which is maintained by the Tamil Nadu Horticulture Department and I which we saw the fern house that harbors 127 species of ferns; the New Garden, which contains the rose garden, a lot of natural floral carpets and natural ponds, the Italian Garden, the Conservatory, which has lots of groups of flowering plants; and the Nurseries, which contains a series of glass houses having innumerable varieties of exotic plants.. Then we returned to resort take rest.

Day Two (9.03.2024)

The second day, our team started our journey to Pykara Lake. The lake is exceptional clean and blue and. set amidst lush greenery. It is an ideal picnic spot and also provides boating facilities. Then we moved to 6th Mile and 9th mile which is a The Most Indian movies featured Shooting Spot situated at a distance of exactly 6 miles and 9 miles from Ooty. This tourist spot is green, extensive and replete with dense forest. Next we went to pine forest, the one of the magical wonders for its scenic canvas of tall and magnificent trees.

CONCLUSION

Our students acquired the knowledge of manufacturing stages and processes of different Tea varieties such as masala tea, ginger tea, Black tea, Green tea, Oolong tea, White tea and Yellow tea from the leaves of tea plant i.e., Camellia sinensis plant. We would like to extend our gratitude to officials of Doddapetta Tea Factory for giving permission and support to make our visit as a successful and memorable one.



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GALLERY





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ICT FACILITIES

- ICT enabled teaching includes class rooms with LCD, Language Lab, Smart Class rooms, etc. The institution adopts modern pedagogy to enhance teaching-learning process.

ICT FACILITIES

ROOM NUMBER OR NAME OF CLASSROOMS/SEMINARHALLS WITH LCD/WIFI/LAN FACILITIES WITH ROOM NUMBERS	TYPES OF ICT FACILITY
A106	CONFERENCE HALL -1 (LCD PROJECTORS FOR CLASS ROOM TEACHING)
	MAIN AUDITORIUM HALL (AUDIO/VISUAL TOOLS)
A 401	A.P.J.ABDUL KALAM HALL (AUDIO/VISUAL)
A 408	GROUP DISCUSSION HALL (PROJECTORS FOR CLASS ROOM TEACHING)
A 409	CONFERENCE HALL (LCD PROJECTORS FOR CLASS ROOM TEACHING)
B216	SEMINAR HALL (SMART CLASSROOM)
II ECE A	LECTURE HALL (SMART CLASS ROOM)
B 301	POWER ELECTRONICS LAB (INTERNET CONNECTIVITY,WIFI NETWORKS)



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SEMINAR HALL & LECTURE HALL



GROUP DISCUSSION HALL & LCD PROJECTORS CLASSROOM





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API ABDUL KALAM HALL





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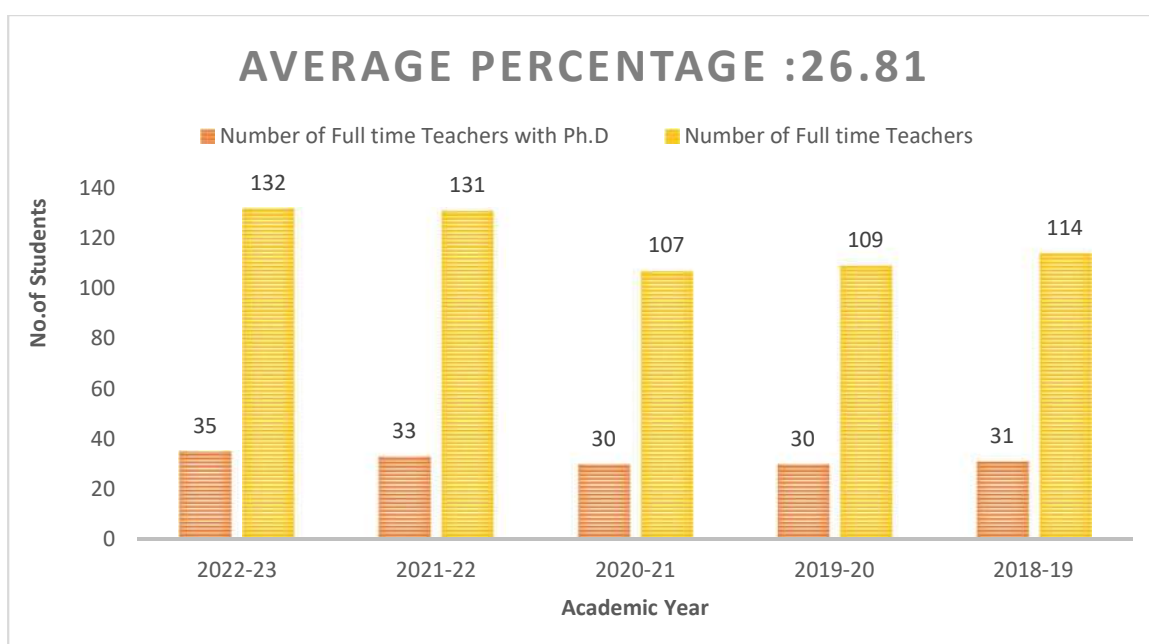
2.4.1. Percentage of full-time teachers against sanctioned posts during the last five years

ACADEMIC YEAR	2022-23	2021-22	2020-21	2019-20	2018-19
Number of sanctioned posts	132	131	107	109	114
Number of Full time Teachers	132	131	107	109	114

Average Percentage: 100%

2.4.2 PERCENTAGE OF FULL TIME TEACHERS WITH NET/SET/SLET/ PH. D. / D.M. / M.CH. / D.N.B SUPERSPECIALITY / D.SC. / D.LITT. DURING THE LAST FIVE YEARS

ACADEMIC YEAR	2022-23	2021-22	2020-21	2019-20	2018-19
Number of Full time Teachers with Ph.D	35	33	30	30	31
Number of Full time Teachers	132	131	107	109	114





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2.5 Evaluation Process and Reforms

2.5.1 Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient

Our Institution is affiliated with Anna University, Chennai. The rules and regulations for the internal/external assessment are laid down by the university. The first-year students are made aware of the evaluation processes through induction programs. The university allows 80% marks for the end-semester exams and 20% internal marks. The internal Assessment marks are uploaded to the University web portal periodically based on the assessment schedule provided by the university.

At Institution Level

Three internal assessment tests (IAT) are conducted per semester. Internal Assessment test Schedules are mentioned in the Academic Calendar of every semester. The timetable for the same is announced two weeks prior to the commencement of the Internal Assessment Test. The seating plan and table marking are followed even for internal assessment tests. Faculty members should set their Course question papers and all the subject question papers duly signed by the Head of the department and Principal are handed over to the internal examination cell four days prior to the respective exam. After the successful completion of the Internal assessment test, internal marks are uploaded to the Institute ERP portal and University web portal as per the University schedule. Students can view their internal marks in their own login to the University. Grievances identified in the internal assessment test for the student are rectified by the internal examination cell Coordinator and Principal.

At University Level

Students are permitted to appear for the semester examination after they registered for courses according to Anna University regulations. The hall tickets are issued to the students well in advance. Any grievance related to the hall ticket like printing of the wrong name or delay in issuance is addressed by the exam cell. After Successful conduction of the University examination, Students are getting every university semester's result through their own login in the University portal. Grievances identified regarding the Anna University examination results such as applying photocopy, revaluation, and review process for the results they obtained, and other grievances like the correction in the grade sheet (DOB, printing mistakes, duplicate grade sheet, etc.) are rectified by college



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university examination cell and Control of examination of Anna University, Chennai. The issues of the students are addressed with high priority.

Challenge Evaluation

If the re-evaluation results are not satisfactory, a student can apply for challenge evaluation within a week after the announcement of the results. This evaluation process is carried out in the presence of students by two subject experts; one represents the institution and the other from the university.



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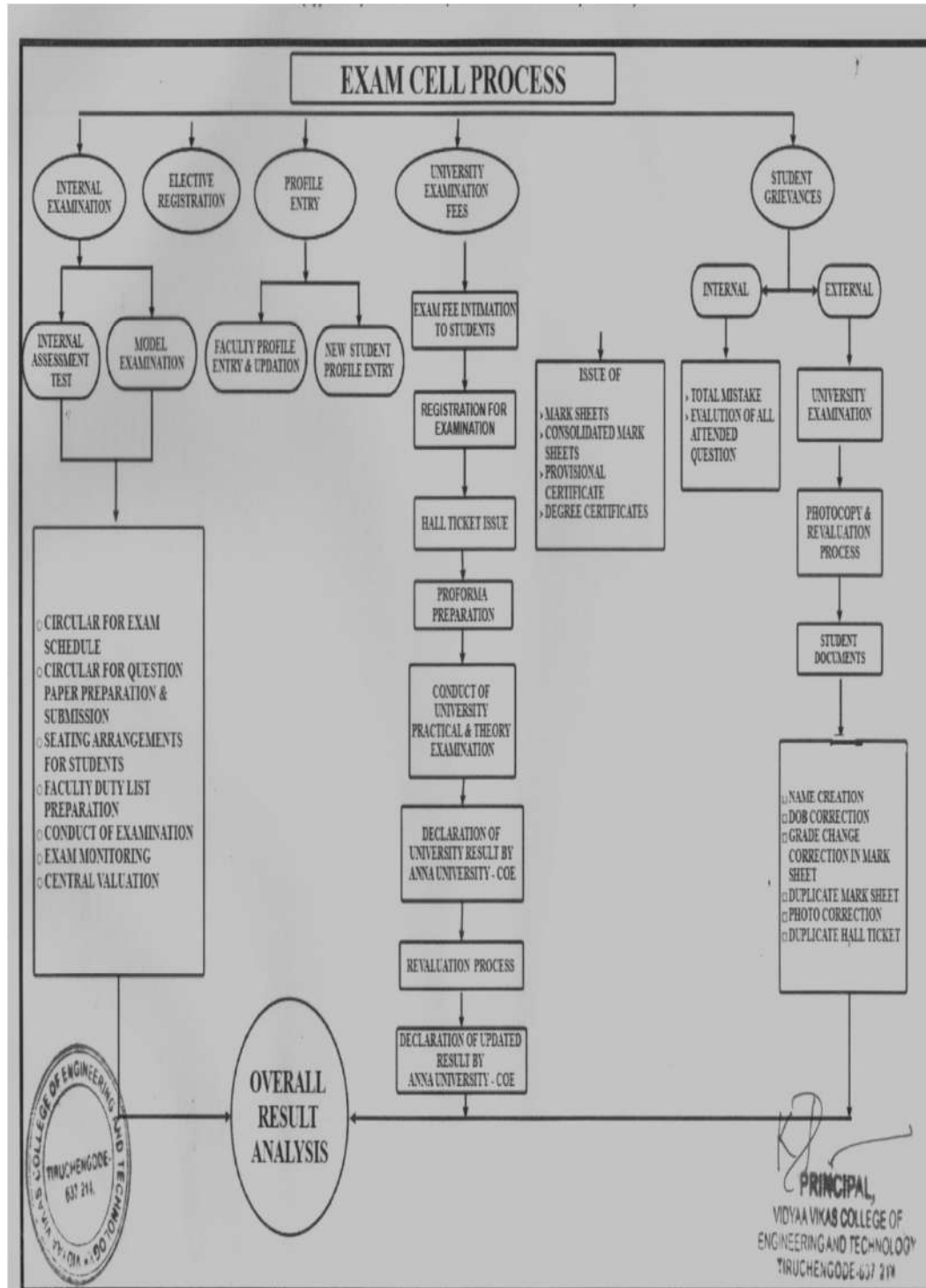
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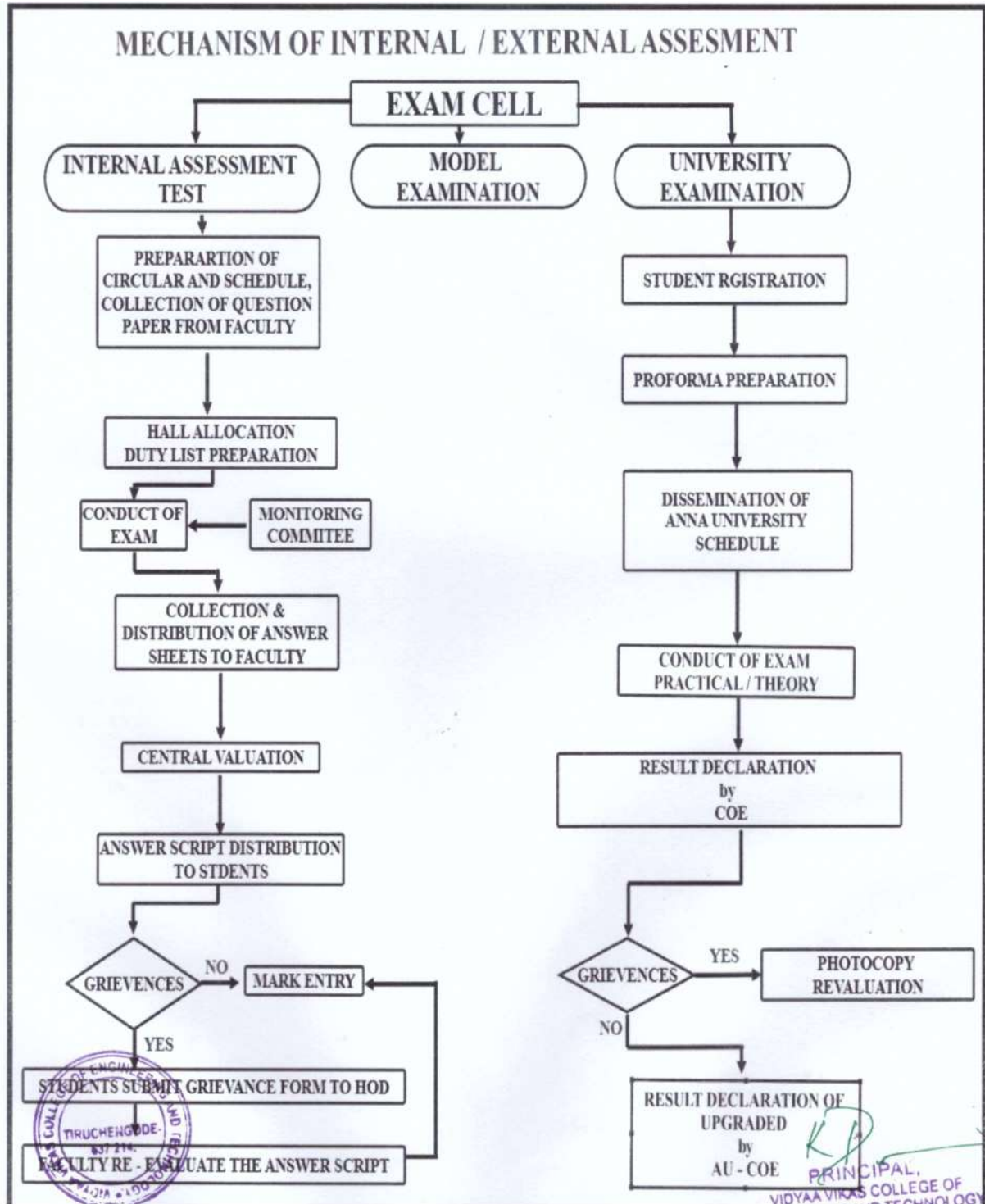
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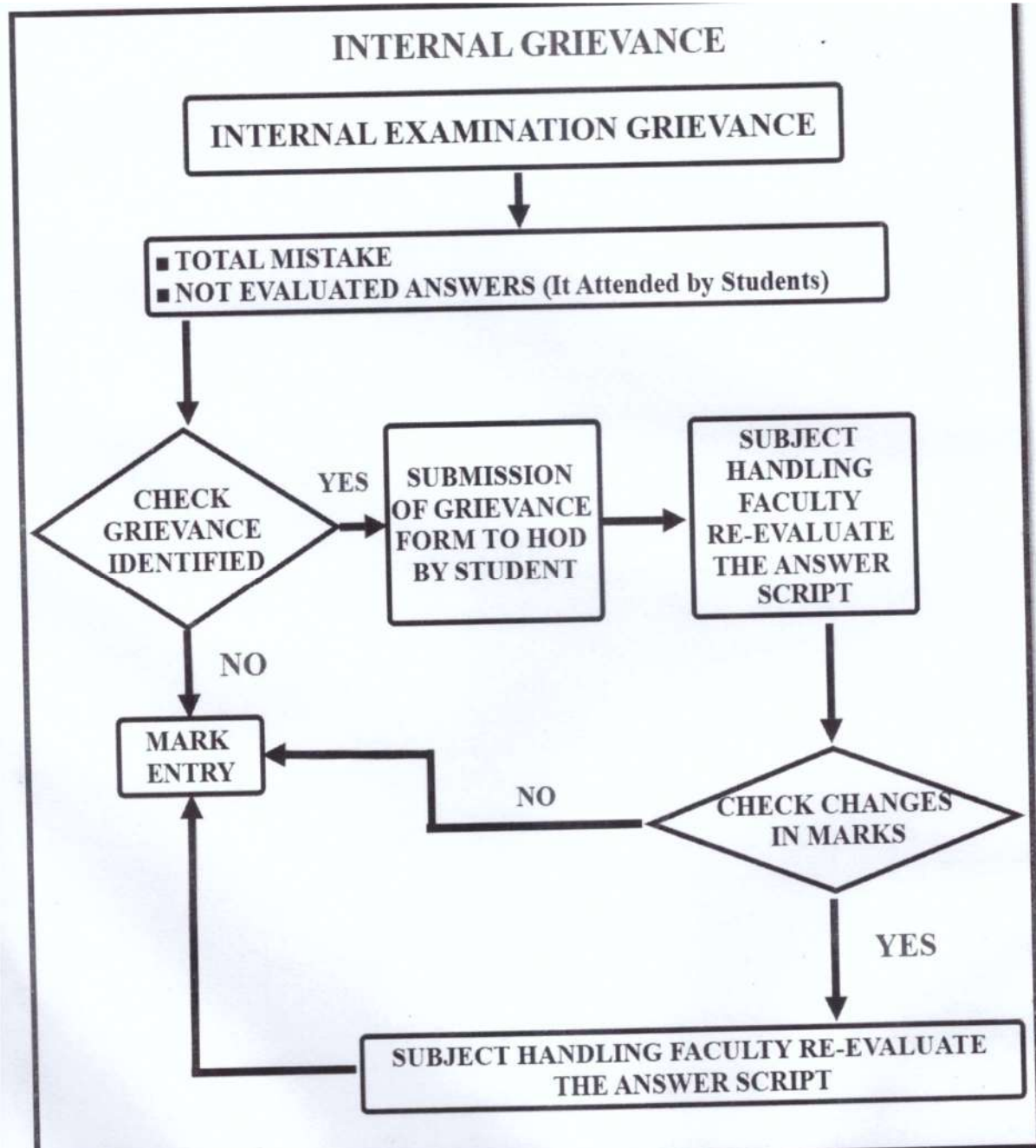
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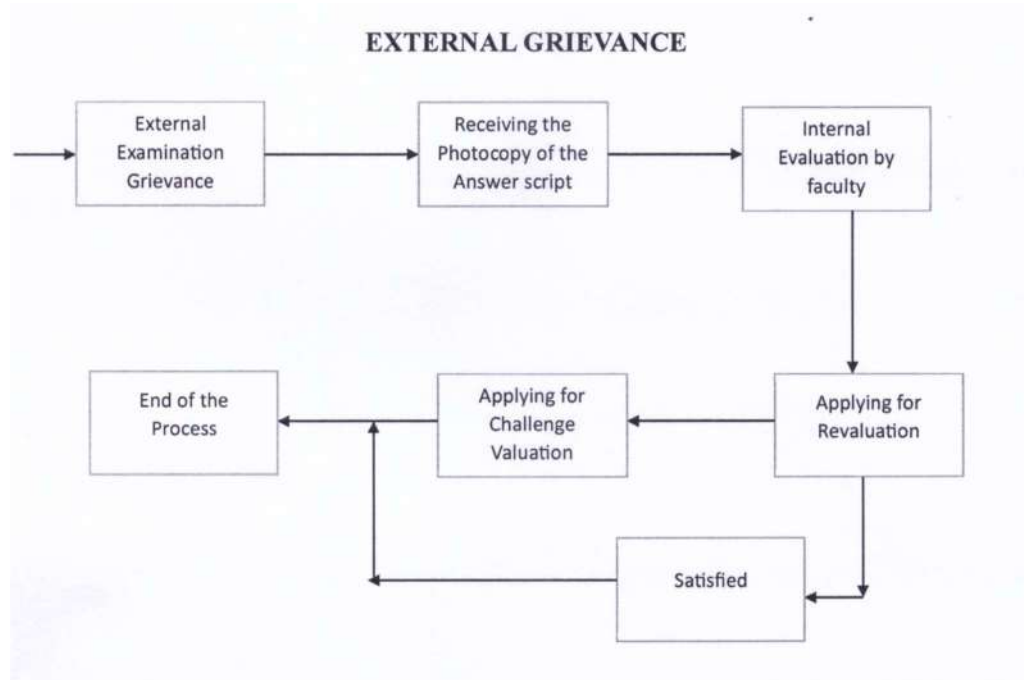
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INTERNAL ASSESSMENT EXAMINATION GRIEVANCE FORM

IAT#1 / IAT#2/IAT#3

Date :

Name of the Student :
Register Number :
Department :
Year of Study :
Subject Code and Name :
Grievance :

Signature of the Student

Investigation of grievance and Action Taken

Signatur of the HOD



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ANNA UNIVERSITY :: CHENNAI 600 025

Internal Assessment Schedule for Non Autonomous Affiliated Institutions

MARCH - JUNE 2022 - For all UG - Programmes (Even Semester – Except Semester II)

Report No	Report Period	Test Period	Report Entry Period
I	16-03-2022 – 01-04-2022	—	21-04-2022 – 25-04-2022
II	04-04-2022 – 29-04-2022	25-04-2022 – 29-04-2022	29-04-2022 – 04-05-2022
III	30-04-2022 – 24-05-2022	19-05-2022 – 24-05-2022	24-05-2022 – 28-05-2022
IV	25-05-2022 – 16-06-2022	11-06-2022 – 16-06-2022	16-06-2022 – 17-06-2022

Saturdays may be included as working days to make good the Shortages, if any.

Signature of the Controller of Examinations

Signature of the Principal

Anna University, Chennai
Office of the Controller of Examinations
Abstract of All Elective List - UG

College Code / Name : 701 - VIDYAA VIKAS COLLEGE OF ENGINEERING AND TECHNOLOGY
Branch Code / Name : 701 - B.E. Computer Science and Engineering
Semester : III University : 605 Regulation : 2021 All Electives

Elective No	Elective Name	Elective Code
1	Elective I	701E110001
2	Elective II	701E110002
3	Elective III	701E110003
4	Elective IV	701E110004
5	Elective V	701E110005
6	Elective VI	701E110006
7	Elective VII	701E110007
8	Elective VIII	701E110008
9	Elective IX	701E110009
10	Elective X	701E110010
11	Elective XI	701E110011
12	Elective XII	701E110012
13	Elective XIII	701E110013
14	Elective XIV	701E110014
15	Elective XV	701E110015
16	Elective XVI	701E110016
17	Elective XVII	701E110017
18	Elective XVIII	701E110018
19	Elective XIX	701E110019
20	Elective XX	701E110020

Signature of the Principal with seal

VIDYAA VIKAS COLLEGE OF ENGINEERING AND TECHNOLOGY

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ACADEMIC CALENDAR - 2022-2023 (EVEN SEMESTER) - UG (II, III, IV YEAR) and PG MBA (II YEAR) - 06.02.2023

Day	Date	Activity (for all Dept)	No. of Wks. Run	Common for All UG Programmes (I, II, III & IV Year) and PG MBA (II Year)	Saturday	25-Mar-23	39	TUESDAY - TT
Monday	6-Feb-23	1	1	Common for All UG Programmes (I, II, III & IV Year) and PG MBA (II Year)	Sunday	26-Mar-23	HOLIDAY	H HOLIDAY
Tuesday	7-Feb-23	2	2	Common for All UG Programmes (I, II, III & IV Year) and PG MBA (II Year)	Monday	27-Mar-23	40	
Wednesday	8-Feb-23	3	3	Common for All UG Programmes (I, II, III & IV Year) and PG MBA (II Year)	Tuesday	28-Mar-23	41	
Thursday	9-Feb-23	4	4	Common for All UG Programmes (I, II, III & IV Year) and PG MBA (II Year)	Wednesday	29-Mar-23	42	11 UNIT - COMPLETION
Friday	10-Feb-23	5	5	Common for All UG Programmes (I, II, III & IV Year) and PG MBA (II Year)	Thursday	30-Mar-23	43	
Saturday	11-Feb-23	6	6	MONDAY - TT	Friday	31-Mar-23	44	
Sunday	12-Feb-23	7	7	HOLIDAY	Saturday	1-Apr-23	45	WEDNESDAY TT
Monday	13-Feb-23	8	8	HOLIDAY	Sunday	2-Apr-23	46	H HOLIDAY
Tuesday	14-Feb-23	9	9	HOLIDAY	Monday	3-Apr-23	47	Mathematical Analysis
Wednesday	15-Feb-23	10	10	HOLIDAY	Tuesday	4-Apr-23	48	
Thursday	16-Feb-23	11	11	HOLIDAY	Wednesday	5-Apr-23	49	
Friday	17-Feb-23	12	12	TUESDAY - TT	Thursday	6-Apr-23	50	THURSDAY - TT
Saturday	18-Feb-23	13	13	HOLIDAY	Friday	7-Apr-23	51	FRIDAY - TT
Sunday	19-Feb-23	14	14	HOLIDAY	Saturday	8-Apr-23	52	GOOD FRIDAY
Monday	20-Feb-23	15	15	HOLIDAY	Sunday	9-Apr-23	53	
Tuesday	21-Feb-23	16	16	11 UNIT - COMPLETION	Monday	10-Apr-23	54	
Wednesday	22-Feb-23	17	17		Tuesday	11-Apr-23	55	
Thursday	23-Feb-23	18	18		Wednesday	12-Apr-23	56	
Friday	24-Feb-23	19	19		Thursday	13-Apr-23	57	TUESDAY TT
Saturday	25-Feb-23	20	20	WEDNESDAY - TT	Friday	14-Apr-23	58	THURSDAY TT
Sunday	26-Feb-23	21	21	HOLIDAY	Saturday	15-Apr-23	59	FRIDAY TT
Monday	27-Feb-23	22	22	HOLIDAY	Sunday	16-Apr-23	60	H HOLIDAY
Tuesday	28-Feb-23	23	23	HOLIDAY	Monday	17-Apr-23	61	11 UNIT - COMPLETION
Wednesday	29-Feb-23	24	24	HOLIDAY	Tuesday	18-Apr-23	62	11 UNIT - TT
Thursday	30-Feb-23	25	25	HOLIDAY	Wednesday	19-Apr-23	63	
Friday	31-Mar-23	26	26	HOLIDAY	Thursday	20-Apr-23	64	
Saturday	1-Apr-23	27	27	HOLIDAY	Friday	21-Apr-23	65	
Sunday	2-Apr-23	28	28	HOLIDAY	Saturday	22-Apr-23	66	SATURDAY HOLIDAY
Monday	3-Apr-23	29	29	HOLIDAY	Sunday	23-Apr-23	67	H HOLIDAY
Tuesday	4-Apr-23	30	30	HOLIDAY	Monday	24-Apr-23	68	
Wednesday	5-Apr-23	31	31	HOLIDAY	Tuesday	25-Apr-23	69	
Thursday	6-Apr-23	32	32	HOLIDAY	Wednesday	26-Apr-23	70	
Friday	7-Apr-23	33	33	HOLIDAY	Thursday	27-Apr-23	71	WEDNESDAY TT
Saturday	8-Apr-23	34	34	HOLIDAY	Friday	28-Apr-23	72	
Sunday	9-Apr-23	35	35	HOLIDAY	Saturday	29-Apr-23	73	
Monday	10-Apr-23	36	36	HOLIDAY	Sunday	30-Apr-23	74	H HOLIDAY
Tuesday	11-Apr-23	37	37	HOLIDAY	Monday	1-May-23	75	11 UNIT - COMPLETION
Wednesday	12-Apr-23	38	38	HOLIDAY	Tuesday	2-May-23	76	11 UNIT - TT
Thursday	13-Apr-23	39	39	HOLIDAY	Wednesday	3-May-23	77	11 UNIT - COMPLETION
Friday	14-Apr-23	40	40	HOLIDAY	Thursday	4-May-23	78	11 UNIT - COMPLETION
Saturday	15-Apr-23	41	41	HOLIDAY	Friday	5-May-23	79	11 UNIT - COMPLETION
Sunday	16-Apr-23	42	42	HOLIDAY	Saturday	6-May-23	80	11 UNIT - COMPLETION
Monday	17-Apr-23	43	43	HOLIDAY	Sunday	7-May-23	81	11 UNIT - COMPLETION
Tuesday	18-Apr-23	44	44	HOLIDAY	Monday	8-May-23	82	11 UNIT - COMPLETION
Wednesday	19-Apr-23	45	45	HOLIDAY	Tuesday	9-May-23	83	11 UNIT - COMPLETION
Thursday	20-Apr-23	46	46	HOLIDAY	Wednesday	10-May-23	84	11 UNIT - COMPLETION
Friday	21-Apr-23	47	47	HOLIDAY	Thursday	11-May-23	85	11 UNIT - COMPLETION
Saturday	22-Apr-23	48	48	HOLIDAY	Friday	12-May-23	86	11 UNIT - COMPLETION
Sunday	23-Apr-23	49	49	HOLIDAY	Saturday	13-May-23	87	11 UNIT - COMPLETION
Monday	24-Apr-23	50	50	HOLIDAY	Sunday	14-May-23	88	11 UNIT - COMPLETION
Tuesday	25-Apr-23	51	51	HOLIDAY	Monday	15-May-23	89	11 UNIT - COMPLETION
Wednesday	26-Apr-23	52	52	HOLIDAY	Tuesday	16-May-23	90	11 UNIT - COMPLETION
Thursday	27-Apr-23	53	53	HOLIDAY	Wednesday	17-May-23	91	11 UNIT - COMPLETION
Friday	28-Apr-23	54	54	HOLIDAY	Thursday	18-May-23	92	11 UNIT - COMPLETION
Saturday	29-Apr-23	55	55	HOLIDAY	Friday	19-May-23	93	11 UNIT - COMPLETION
Sunday	30-Apr-23	56	56	HOLIDAY	Saturday	20-May-23	94	11 UNIT - COMPLETION
Monday	1-May-23	57	57	HOLIDAY	Sunday	21-May-23	95	11 UNIT - COMPLETION
Tuesday	2-May-23	58	58	HOLIDAY	Monday	22-May-23	96	11 UNIT - COMPLETION
Wednesday	3-May-23	59	59	HOLIDAY	Tuesday	23-May-23	97	11 UNIT - COMPLETION
Thursday	4-May-23	60	60	HOLIDAY	Wednesday	24-May-23	98	11 UNIT - COMPLETION
Friday	5-May-23	61	61	HOLIDAY	Thursday	25-May-23	99	11 UNIT - COMPLETION
Saturday	6-May-23	62	62	HOLIDAY	Friday	26-May-23	100	11 UNIT - COMPLETION
Sunday	7-May-23	63	63	HOLIDAY	Saturday	27-May-23	101	11 UNIT - COMPLETION
Monday	8-May-23	64	64	HOLIDAY	Sunday	28-May-23	102	11 UNIT - COMPLETION
Tuesday	9-May-23	65	65	HOLIDAY	Monday	29-May-23	103	11 UNIT - COMPLETION
Wednesday	10-May-23	66	66	HOLIDAY	Tuesday	30-May-23	104	11 UNIT - COMPLETION
Thursday	11-May-23	67	67	HOLIDAY	Wednesday	31-May-23	105	11 UNIT - COMPLETION
Friday	12-May-23	68	68	HOLIDAY	Thursday	1-Jun-23	106	11 UNIT - COMPLETION
Saturday	13-May-23	69	69	HOLIDAY	Friday	2-Jun-23	107	11 UNIT - COMPLETION
Sunday	14-May-23	70	70	HOLIDAY	Saturday	3-Jun-23	108	11 UNIT - COMPLETION
Monday	15-May-23	71	71	HOLIDAY	Sunday	4-Jun-23	109	11 UNIT - COMPLETION
Tuesday	16-May-23	72	72	HOLIDAY	Monday	5-Jun-23	110	11 UNIT - COMPLETION
Wednesday	17-May-23	73	73	HOLIDAY	Tuesday	6-Jun-23	111	11 UNIT - COMPLETION
Thursday	18-May-23	74	74	HOLIDAY	Wednesday	7-Jun-23	112	11 UNIT - COMPLETION
Friday	19-May-23	75	75	HOLIDAY	Thursday	8-Jun-23	113	11 UNIT - COMPLETION
Saturday	20-May-23	76	76	HOLIDAY	Friday	9-Jun-23	114	11 UNIT - COMPLETION
Sunday	21-May-23	77	77	HOLIDAY	Saturday	10-Jun-23	115	11 UNIT - COMPLETION
Monday	22-May-23	78	78	HOLIDAY	Sunday	11-Jun-23	116	11 UNIT - COMPLETION
Tuesday	23-May-23	79	79	HOLIDAY	Monday	12-Jun-23	117	11 UNIT - COMPLETION
Wednesday	24-May-23	80	80	HOLIDAY	Tuesday	13-Jun-23	118	11 UNIT - COMPLETION
Thursday	25-May-23	81	81	HOLIDAY	Wednesday	14-Jun-23	119	11 UNIT - COMPLETION
Friday	26-May-23	82	82	HOLIDAY	Thursday	15-Jun-23	120	11 UNIT - COMPLETION
Saturday	27-May-23	83	83	HOLIDAY	Friday	16-Jun-23	121	11 UNIT - COMPLETION
Sunday	28-May-23	84	84	HOLIDAY	Saturday	17-Jun-23	122	11 UNIT - COMPLETION
Monday	29-May-23	85	85	HOLIDAY	Sunday	18-Jun-23	123	11 UNIT - COMPLETION
Tuesday	30-May-23	86	86	HOLIDAY	Monday	19-Jun-23	124	11 UNIT - COMPLETION
Wednesday	31-May-23	87	87	HOLIDAY	Tuesday	20-Jun-23	125	11 UNIT - COMPLETION
Thursday	1-Jun-23	88	88	HOLIDAY	Wednesday	21-Jun-23	126	11 UNIT - COMPLETION
Friday	2-Jun-23	89	89	HOLIDAY	Thursday	22-Jun-23	127	11 UNIT - COMPLETION
Saturday	3-Jun-23	90	90	HOLIDAY	Friday	23-Jun-23	128	11 UNIT - COMPLETION
Sunday	4-Jun-23	91	91	HOLIDAY	Saturday	24-Jun-23	129	11 UNIT - COMPLETION
Monday	5-Jun-23	92	92	HOLIDAY	Sunday	25-Jun-23	130	11 UNIT - COMPLETION
Tuesday	6-Jun-23	93	93	HOLIDAY	Monday	26-Jun-23	131	11 UNIT - COMPLETION
Wednesday	7-Jun-23	94	94	HOLIDAY	Tuesday	27-Jun-23	132	11 UNIT - COMPLETION
Thursday	8-Jun-23	95	95	HOLIDAY	Wednesday	28-Jun-23	133	11 UNIT - COMPLETION
Friday	9-Jun-23	96	96	HOLIDAY	Thursday	29-Jun-23	134	11 UNIT - COMPLETION
Saturday	10-Jun-23	97	97	HOLIDAY	Friday	30-Jun-23	135	11 UNIT - COMPLETION
Sunday	11-Jun-23	98	98	HOLIDAY	Saturday	1-Jul-23	136	11 UNIT - COMPLETION
Monday	12-Jun-23	99	99	HOLIDAY	Sunday	2-Jul-23	137	11 UNIT - COMPLETION
Tuesday	13-Jun-23	100	100	HOLIDAY	Monday	3-Jul-23	138	11 UNIT - COMPLETION
Wednesday	14-Jun-23	101	101	HOLIDAY	Tuesday	4-Jul-23	139	11 UNIT - COMPLETION
Thursday	15-Jun-23	102	102	HOLIDAY	Wednesday	5-Jul-23	140	11 UNIT - COMPLETION
Friday	16-Jun-23	103	103	HOLIDAY	Thursday	6-Jul-23	141	11 UNIT - COMPLETION
Saturday	17-Jun-23	104	104	HOLIDAY	Friday	7-Jul-23	142	11 UNIT - COMPLETION
Sunday	18-Jun-23	105	105	HOLIDAY	Saturday	8-Jul-23	143	11 UNIT - COMPLETION
Monday	19-Jun-23	106	106	HOLIDAY	Sunday	9-Jul-23	144	11 UNIT - COMPLETION
Tuesday	20-Jun-23	107	107	HOLIDAY	Monday	10-Jul-23	145	11 UNIT - COMPLETION
Wednesday	21-Jun-23	108	108	HOLIDAY	Tuesday	11-Jul-23	146	11 UNIT - COMPLETION
Thursday	22-Jun-23	109	109	HOLIDAY	Wednesday	12-Jul-23	147	11 UNIT - COMPLETION
Friday	23-Jun-23	110	110	HOLIDAY	Thursday	13-Jul-23	148	11 UNIT - COMPLETION
Saturday	24-Jun-23	111	111	HOLIDAY	Friday	14-Jul-23	149	11 UNIT - COMPLETION
Sunday	25-Jun-23	112	112	HOLIDAY	Saturday	15-Jul-23	150	11 UNIT - COMPLETION
Monday	26-Jun-23	113	113	HOLIDAY	Sunday	16-Jul-23	151	11 UNIT - COMPLETION
Tuesday	27-Jun-23	114	114	HOLIDAY	Monday	17-Jul-23	152	11 UNIT - COMPLETION
Wednesday	28-Jun-23	115	115	HOLIDAY	Tuesday	18-Jul-23	153	11 UNIT - COMPLETION
Thursday	29-Jun-23	116	116	HOLIDAY	Wednesday	19-Jul-23	154	11 UNIT - COMPLETION
Friday	30-Jun-23	117	117	HOLIDAY	Thursday	20-Jul-23	155	11 UNIT - COMPLETION
Saturday	1-Jul-23	118	118	HOLIDAY	Friday	21-Jul-23	156	11 UNIT - COMPLETION
Sunday	2-Jul-23	119	119	HOLIDAY	Saturday	22-Jul-23	157	11 UNIT - COMPLETION
Monday	3-Jul-23	120	120	HOLIDAY	Sunday	23-Jul-23	158	11 UNIT - COMPLETION
Tuesday	4-Jul-23	121	121	HOLIDAY	Monday	24-Jul-23	159	11 UNIT - COMPLETION
Wednesday	5-Jul-23	122	122	HOLIDAY	Tuesday	25-Jul-23	160	11 UNIT - COMPLETION
Thursday	6-Jul-23	123	123	HOLIDAY	Wednesday	26-Jul-23	161	11 UNIT - COMPLETION
Friday	7-Jul-23	124	124	HOLIDAY	Thursday	27-Jul-23	162	11 UNIT - COMPLETION
Saturday	8-Jul-23	125	125	HOLIDAY	Friday	28-Jul-23	163	11 UNIT - COMPLETION
Sunday	9-Jul-23	126	126	HOLIDAY	Saturday	29-Jul-23	164	11 UNIT - COMPLETION
Monday	10-Jul-23	127	127	HOLIDAY	Sunday	30-Jul-23	165	11 UNIT - COMPLETION
Tuesday	11-Jul-23	128	128	HOLIDAY	Monday	31-Jul-23	166	11 UNIT - COMPLETION
Wednesday	12-Jul-23	129	129	HOLIDAY	Tuesday	1-Aug-23	167	11 UNIT - COMPLETION
Thursday	13-Jul-23	130	130	HOLIDAY	Wednesday	2-Aug-23	168	11 UNIT - COMPLETION
Friday	14-Jul-23	131	131	HOLIDAY	Thursday	3-Aug-23	169	11 UNIT - COMPLETION
Saturday	15-Jul-23	132	132	HOLIDAY	Friday	4-Aug-23	170	11 UNIT - COMPLETION
Sunday	16-Jul-23	133	133	HOLIDAY	Saturday	5-Aug-23	171	11 UNIT - COMPLETION
Monday	17-Jul-23	134	134	HOLIDAY	Sunday	6-Aug-23	172	11 UNIT - COMPLETION
Tuesday	18-Jul-23	135	135	HOLIDAY	Monday	7-Aug-23	173	11 UNIT - COMPLETION
Wednesday	19-Jul-23	136	136	HOLIDAY	Tuesday	8-Aug-23	174	11 UNIT - COMPLETION
Thursday	20-Jul-23	137	137	HOLIDAY	Wednesday	9-Aug-23	175	11 UNIT - COMPLETION
Friday	21-Jul-23	138	138	HOLIDAY	Thursday	10-Aug-23	176	11 UNIT - COMPLETION
Saturday	22-Jul-23	139	139	HOLIDAY	Friday	11-Aug-23	177	11 UNIT - COMPLETION
Sunday	23-Jul-23	140	140	HOLIDAY	Saturday	12-Aug-23	178	11 UNIT - COMPLETION
Monday	24-Jul-23	141	141	HOLIDAY	Sunday	13-Aug-23	179	11 UNIT - COMPLETION
Tuesday	25-Jul-23	142	142	HOLIDAY	Monday	14-Aug-23	180	11 UNIT - COMPLETION
Wednesday	26-Jul-23	143	143	HOLIDAY	Tuesday	15-Aug-23	181	11 UNIT - COMPLETION
Thursday	27-Jul-23	144	144	HOLIDAY	Wednesday	16-Aug-23	182	11 UNIT - COMPLETION
Friday	28-Jul-23	145	145	HOLIDAY	Thursday	17-Aug-23	183	11 UNIT - COMPLETION
Saturday	29-Jul-23	146	146	HOLIDAY	Friday	18-Aug-23	184	11 UNIT - COMPLETION
Sunday	30-Jul-23	147	147	HOLIDAY	Saturday	19-Aug-23	185	11 UNIT - COMPLETION
Monday	31-Jul-23	148	148	HOLIDAY	Sunday	20-Aug-23	186	11 UNIT - COMPLETION
Tuesday	1-Aug-23	149	149	HOLIDAY	Monday	21-Aug-23	187	11 UNIT - COMPLETION
Wednesday	2-Aug-23	150	150	HOLIDAY	Tuesday	22-Aug-23	188	11 UNIT - COMPLETION



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INTERNAL ASSESSMENT TEST - I / II / III / MODEL		
Register Number	7 5 3 1 2 2 1 0 4 0 4 3	
Name	PERUMAL SATHISHKARAN	Degree / Branch
Sub Code & Name	ME3401 - ENGINEERING MATERIALS SCIENCE AND TECHNOLOGY	REF CODE
Semester	IV	All Particulars given are verified
Date & Section	04/10/21 / EN	
No. of Pages Used	19 Pages	SIGNATURE OF THE HALL INVIGILATOR WITH NAME & DATE


PART - A											
C/O	Q.1	Q.2	Q.3	Q.4	Q.5	Q.6	Q.7	Q.8	Q.9	Q.10	TOT
C01	2	2									4
C02			2	2							4
C03				2	2						4
C04						2	2				4
C05								2	2		4
C06											
TOTAL											20

PART - B																					
C/O	11(a)		11(b)		12(a)		12(b)		13(a)		13(b)		14(a)		14(b)		15(a)		15(b)		TOT
	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	
C01	6.5																				11
C02					8				12												8
C03																					12
C04													6.5								11
C05																					5.05
C06																					
TOTAL MARKS																					47

PART C		C/O		Grand Total		Name of Examiner	
16 (a)	16 (b)						
C01	4.5	I	II	10.5	1.5	Signature of this	S. Sathishkaran
C02	4.5	I	II	10.5	1.5	Signature of this	S. Sathishkaran
C03	4.5	I	II	10.5	1.5	Signature of this	S. Sathishkaran
C04	4.5	I	II	10.5	1.5	Signature of this	S. Sathishkaran
C05	4.5	I	II	10.5	1.5	Signature of this	S. Sathishkaran
C06	4.5	I	II	10.5	1.5	Signature of this	S. Sathishkaran
TOTAL		Grand Total		Grand Total		Signature of the Principal with Date	

[illegible]

Date: 27.07.2021



CENTRE FOR ACADEMIC COURSES
ANNA UNIVERSITY - CHENNAI - 600 025

ACADEMIC SCHEDULE FOR NON AUTONOMOUS AFFILIATED COLLEGES

August 2021 – December 2021 (ODD SEMESTER)*

UG & PG Programmes

Sl. No.	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	B.E./B.Tech (Full-Time)	III, V, VII	19.08.2021	30.11.2021**	02.12.2021	12.12.2021
2.	B.E./B.Tech (Part-Time)	III, V, VII				
3.	B.Arch. (Full-Time)	III, V, VII, IX				
4.	M.C.A. (Full-Time)	V				
5.	M.Sc./S.Yis-Integrated)	V, VII, IX				
6.	M.B.A. (S.Yis-Integrated)	V, VII, IX				

* As per the directives of the Government of Tamil Nadu, the classes will be conducted in ONLINE mode


RE - OPENING DAY FOR THE NEXT SEMESTER: 19.01.2022 (Wednesday)

NOTE:

- The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).
- If necessary, less of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.


** In order to ensure minimum no. of working days, the following 7 Saturdays are declared as working days.

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed	Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	28.08.2021	Friday	5.	23.10.2021	Friday
2.	11.09.2021	Monday	6.	06.11.2021	Tuesday
3.	25.09.2021	Friday	7.	20.11.2021	Thursday
4.	09.10.2021	Thursday			



PRINCIPAL

VEDHA VASU COLLEGE OF
ENGINEERING AND TECHNOLOGY
TIRUCHENGODE-612 214



**DIRECTOR
ACADEMIC COURSES**

Slc - 55

VIDYAA VIKAS COLLEGE OF ENGINEERING AND TECHNOLOGY

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Internal Assessment Examination - I

Branch	ALL BRANCHES (CIVIL, CSE, ECE, EEE, MECH)	Sem	IV	Date	16.04.2024 (AN)	Duration	3 Hrs.
Subject Code and Name	GE3451 - Environmental Sciences and Sustainability			Max.Marks	100 Marks		
Course Outcomes						RBT	
CO1	To recognize and understand the functions of environment, ecosystems and biodiversity and their conservation.					Understanding	
CO2	To identify the causes, effects of environmental pollution and natural disasters and contribute to the preventive measures in the society.					Understanding	
CO3	To identify and apply the understanding of renewable and non-renewable resources and contribute to the sustainable measures to preserve them for future generations.					Understanding	
CO4	To recognize the different goals of sustainable development and apply them for suitable technological advancement and societal development.					Understanding	
CO5	To demonstrate the knowledge of sustainability practices and identify green materials, energy cycles and the role of sustainable urbanization.					Understanding	
PART - A (10 X 2 Marks = 20 Marks) Answer All the Questions				RBT	CO	Marks	
1	State the significance and scope of environmental education.			Remembering	CO1	2	
2	Define ecological succession and mention its types.			Remembering	CO1	2	
3	India is mega diversity nation account.			Understanding	CO1	2	
4	Distinguish between genetic and species diversity.			Understanding	CO1	2	
5	With suitable examples define primary and secondary air pollutants.			Remembering	CO2	2	
6	What do you understand by soil pollution?			Remembering	CO2	2	
7	Give a brief description about E-waste management.			Understanding	CO2	2	
8	Mention some drawbacks of pollution related acts.			Remembering	CO2	2	
9	Define GHASMS.			Remembering	CO2	2	
10	Give any four methods to control noise pollution.			Understanding	CO2	2	
PART - B (5 X 13 Marks = 65 Marks) Answer All the Questions				RBT	CO	Marks	
11(a)	Elaborate in a systematic manner about the structure and functions of various components of an ecosystem.			Understanding	CO1	13	
OR							
11(b)	What do you understand by "Hot spots of biodiversity"? Name and briefly describe the two hotspots of biodiversity that extend into India.			Understanding	CO1	13	
12(a)	Discuss about the In situ and Ex situ conservation along with their merits and limitations.			Understanding	CO1	13	
OR							

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TRICHENGODE - 637214

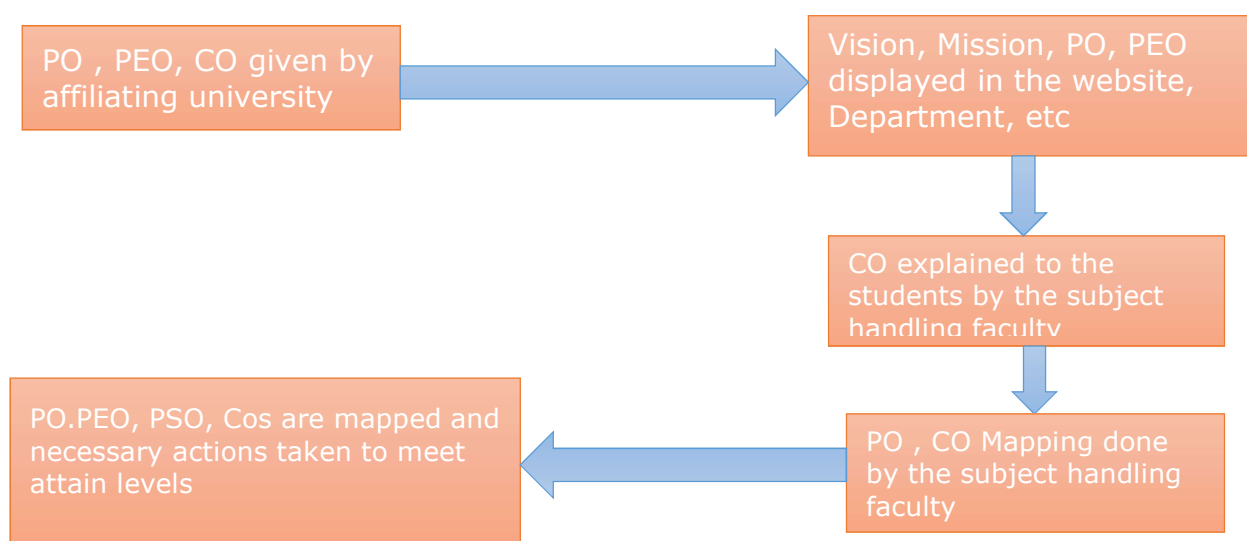


2.6 Students Performance and Learning Outcomes

Our College is affiliated with Anna University, Chennai. The college has well-defined Program Outcomes (POs), Program Specific Outcomes (PSOs), and Course Outcomes (COs) that are based on its Vision and Mission statements and the course content. All faculty members receive a course file that includes POs and COs, which helps them understand the course outcomes and plan lessons accordingly.

The college takes great care to ensure that all stakeholders are informed about POs and COs. They are displayed on the college website, academic regulations, and curriculum book, and are made accessible through faculty members, student induction programs, and faculty meetings.

The curriculum is designed to achieve program outcomes and program-specific outcomes through a set of courses, each with defined course outcomes that are linked to the program outcomes and a set of performance criteria. The course outcomes are directly and quantitatively assessed and are correlated with the program outcomes and program-specific outcomes. The course outcomes of each course are mapped to the program outcomes using a correlation framework. Projects are reviewed by experts from industry to ensure that they align with the learning outcomes, with employability being one of the primary outcomes.





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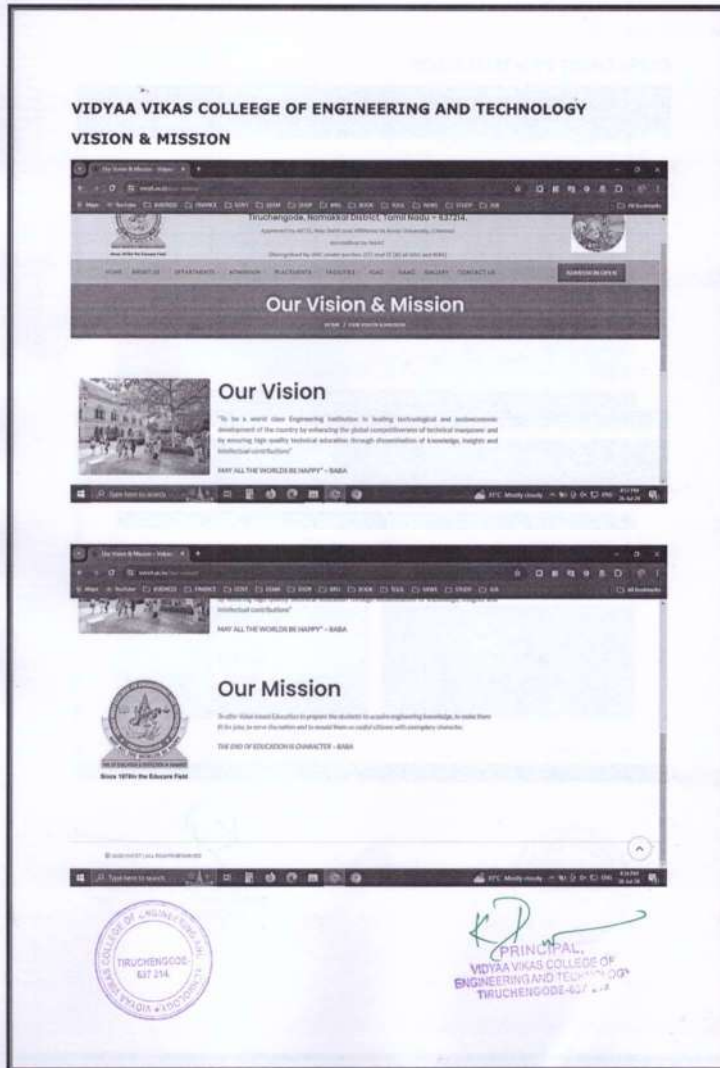
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VISION

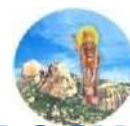
"To be a world class Engineering Institution in leading technological and socioeconomic development of the country by enhancing the global competitiveness of technical manpower and by ensuring high quality technical education through dissemination of knowledge, insights and intellectual contributions"



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MISSION

To offer Value based Education to prepare the students to acquire engineering knowledge, to make them fit for jobs, to serve the nation and to mould them as useful citizens with exemplary character.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

1. To provide the students with a strong foundation in the required sciences in order to pursue studies in Electronics and Communication Engineering.
2. To gain adequate knowledge to become good professional in electronic and communication engineering associated industries, higher education and research.
3. To develop attitude in lifelong learning, applying and adapting new ideas and technologies as their field evolves.
4. To prepare students to critically analyze existing literature in an area of specialization and ethically develop innovative and research-oriented methodologies to solve the problems identified.
5. To inculcate in the students a professional and ethical attitude and an ability to visualize the engineering issues in a broader social context.

PROGRAM OUTCOMES (POs)

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.



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- 3. Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- 4. Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- 5. Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- 6. The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice
- 7. Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- 8. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 9. Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 10. Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- 11. Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- 12. Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



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PROGRAM SPECIFIC OUTCOMES (PSOs)

1. Design, develop and analyze electronic systems through application of relevant electronics, mathematics and engineering principles
2. Design, develop and analyze communication systems through application of fundamentals from communication principles, signal processing, and RF System Design & Electromagnetics.
3. Adapt to emerging electronics and communication technologies and develop innovative solutions for existing and newer problems

COURSE OUTCOME

I-SEM

HS3152

PROFESSIONAL ENGLISH I

CO1	To use appropriate words in a professional context
CO2	To gain understanding of basic grammatic structures and use them in right context.
CO3	To read and infer the denotative and connotative meanings of technical texts
CO4	To write definitions, descriptions, narrations and essays on various topics

MA3151

MATRICES AND CALCULUS

CO1	Use the matrix algebra methods for solving practical problems.
CO2	Apply differential calculus tools in solving various application problems.
CO3	Able to use differential calculus ideas on several variable functions.
CO4	Apply different methods of integration in solving practical problems.
CO5	Apply multiple integral ideas in solving areas, volumes and other practical problems.



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PH3151	ENGINEERING PHYSICS
C01	Understand the importance of mechanics.
C02	Express their knowledge in electromagnetic waves.
C03	Demonstrate a strong foundational knowledge in oscillations, optics and lasers.
C04	Understand the importance of quantum physics.
C05	Comprehend and apply quantum mechanical principles towards the formation of energy bands.
CY3151	ENGINEERING CHEMISTRY

- C01 To infer the quality of water from quality parameter data and propose suitable treatment methodologies to treat water.
- C02 To identify and apply basic concepts of nanoscience and nanotechnology in designing the synthesis of nanomaterials for engineering and technology
- C03 To apply the knowledge of phase rule and composites for material selection requirements.
- C04 To recommend suitable fuels for engineering processes and applications.
- C05 To recognize different forms of energy resources and apply them for suitable applications in energy sectors.

GE3151 PROBLEM SOLVING AND PYTHON PROGRAMMING

- C01 Develop algorithmic solutions to simple computational problems.
- C02 Develop and execute simple Python programs.
- C03 Write simple Python programs using conditionals and loops for solving problems.
- C04 Decompose a Python program into functions.
- C05 Represent compound data using Python lists, tuples, dictionaries etc.
- C06 Read and write data from/to files in Python programs.



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GE3171 PROBLEM SOLVING AND PYTHON PROGRAMMING LABORATORY

- C01** Develop algorithmic solutions to simple computational problems.
- C02** Develop and execute simple Python programs.
- C03** Implement programs in Python using conditionals and loops for solving problems.
- C04** Deploy functions to decompose a Python program.
- C05** Process compound data using Python data structures.
- C06** Utilize Python packages in developing software applications.

BS3171 PHYSICS LABORATORY

- C01** Understand the functioning of various physics laboratory equipment.
- C02** Use graphical models to analyze laboratory data.
- C03** Use mathematical models as a medium for quantitative reasoning and describing physical reality.
- C04** Access, process and analyze scientific information.
- C05** Solve problems individually and collaboratively.

BS3171 CHEMISTRY LABORATORY

- C01** To analyse the quality of water samples with respect to their acidity, alkalinity, hardness and DO.
- C02** To determine the amount of metal ions through volumetric and spectroscopic techniques
- C03** To analyse and determine the composition of alloys.
- C04** To learn simple method of synthesis of nanoparticles
- C05** To quantitatively analyse the impurities in solution by electroanalytical techniques



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GE3172

ENGLISH LABORATORY

- C01** To listen to and comprehend general as well as complex academic information
- C02** To listen to and understand different points of view in a discussion
- C03** To speak fluently and accurately in formal and informal communicative contexts
- C04** To describe products and processes and explain their uses and purposes clearly and accurately
- C05** To express their opinions effectively in both formal and informal discussions

II SEM

HS3252

PROFESSIONAL ENGLISH -II

- C01** To compare and contrast products and ideas in technical texts.
- C02** To identify and report cause and effects in events, industrial processes through technical texts
- C03** To analyse problems in order to arrive at feasible solutions and communicate them in the written format.
- C04** To present their ideas and opinions in a planned and logical manner
- C05** To draft effective resumes in the context of job search.

MA3251 STATISTICS AND NUMERICAL METHODS

- C01** Apply the concept of testing of hypothesis for small and large samples in real life problems.
- C02** Apply the basic concepts of classifications of design of experiments in the field of agriculture.
- C03** Appreciate the numerical techniques of interpolation in various intervals and apply the numerical techniques of differentiation and integration for engineering problems.
- C04** Understand the knowledge of various techniques and methods for solving first and second order ordinary differential equations.
- C05** Solve the partial and ordinary differential equations with initial and boundary conditions by using certain techniques with engineering applications.



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PH3254 PHYSICS FOR ELECTRONICS ENGINEERING

- CO1** Know basics of crystallography and its importance for varied materials properties
- CO2** Gain knowledge on the electrical and magnetic properties of materials and their applications
- CO3** Understand clearly of semiconductor physics and functioning of semiconductor devices
- CO4** Understand the optical properties of materials and working principles of various optical devices
- CO5** Appreciate the importance of nanotechnology and nanodevices.

BE3254 ELECTRICAL AND INSTRUMENTATION ENGINEERING

- CO1** Explain the working principle of electrical machines
- CO2** Analyze the output characterizes of electrical machines
- CO3** Choose the appropriate electrical machines for various applications
- CO4** Explain the types and operating principles of measuring instruments
- CO5** Explain the basic power system structure and protection schemes

GE3251 ENGINEERING GRAPHICS

- CO1** Use BIS conventions and specifications for engineering drawing.
- CO2** Construct the conic curves, involutes and cycloid.
- CO3** Solve practical problems involving projection of lines.
- CO4** Draw the orthographic, isometric and perspective projections of simple solids.
- CO5** Draw the development of simple solids.

EC3251 CIRCUIT ANALYSIS

- CO1** Apply the basic concepts of circuit analysis such as Kirchoff's laws, mesh current and node voltage method for analysis of DC and AC circuits.
- CO2** Apply suitable network theorems and analyze AC and DC circuits
- CO3** Analyze steady state response of any R, L and C circuits
- CO4** Analyze the transient response for any RC, RL and RLC circuits and frequency response of parallel and series resonance circuits.
- CO5** Analyze the coupled circuits and network topologies



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GE3271 ENGINEERING PRACTICES LABORATORY

- C01** Draw pipe line plan; lay and connect various pipe fittings used in common household plumbing work; Saw; plan; make joints in wood materials used in common household wood work.
- C02** Wire various electrical joints in common household electrical wire work. Weld various joints in steel plates using arc welding work; Machine various simple processes like turning, drilling, tapping in parts; Assemble simple mechanical assembly of common household equipments; Make a tray out of metal sheet using sheet metal work.
- C03**
- C04** Solder and test simple electronic circuits; Assemble and test simple electronic components on PCB.

EC3271 CIRCUIT ANALYSIS LABORATORY

- C01** Design RL and RC circuits.
- C02** Verify Thevenin & Norton theorem KVL & KCL, and Super Position Theorems.

GE3272 COMMUNICATION LABORATORY

- C01** Speak effectively in group discussions held in formal/semi formal contexts.
- C02** Discuss, analyse and present concepts and problems from various perspectives to arrive at suitable solutions
- C03** Write emails, letters and effective job applications.
- C04** Write critical reports to convey data and information with clarity and precision
- C05** Give appropriate instructions and recommendations for safe execution of tasks

III SEM

MA3355 RANDOM PROCESSES AND LINEAR ALGEBRA

- C01** Explain the fundamental concepts of advanced algebra and their role in modern mathematics and applied contexts.
- C02** Accurate and efficient use of advanced algebraic techniques.
- C03** Apply the concept of random processes in engineering disciplines.
- C04** Understand the fundamental concepts of probability with a thorough knowledge of standard distributions that can describe certain real-life phenomenon.
- C05** Understand the basic concepts of one- and two-dimensional random variables and apply them to model engineering problems.

CS3353 C PROGRAMMING AND DATA STRUCTURES



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- C01** Develop C programs for any real world/technical application.
- C02** Apply advanced features of C in solving problems.
- C03** Write functions to implement linear and non-linear data structure operations.
- C04** Suggest and use appropriate linear/non-linear data structure operations for
- C05** Appropriately use sort and search algorithms for a given application.
- C06** Apply appropriate hash functions that result in a collision free scenario for data storage and retrieval.

EC3354

SIGNALS AND SYSTEMS

- C01** Determine if a given system is linear/causal/stable
- C02** Determine the frequency components present in a deterministic signal
- C03** Characterize continuous LTI systems in the time domain and frequency domain
- C04** Characterize discrete LTI systems in the time domain and frequency domain
- C05** Compute the output of an LTI system in the time and frequency domains

EC3353

ELECTRONIC DEVICES AND CIRCUITS

- C01** Explain the structure and working operation of basic electronic devices.
- C02** Design and analyze amplifiers.
- C03** Analyze frequency response of BJT and MOSFET amplifiers
- C04** Design and analyze feedback amplifiers and oscillator principles.
- C05** Design and analyze power amplifiers and supply circuits

EC3351

CONTROL SYSTEMS

- C01** Compute the transfer function of different physical systems.
- C02** Analyse the time domain specification and calculate the steady state error.
- C03** Illustrate the frequency response characteristics of open loop and closed loop system response.
- C04** Analyse the stability using Routh and root locus techniques.
- C05** Illustrate the state space model of a physical system and discuss the concepts of sampled data control system.

EC3352

DIGITAL SYSTEMS DESIGN

- C01** Use Boolean algebra and simplification procedures relevant to digital logic.
- C02** Design various combinational digital circuits using logic gates.
- C03** Analyse and design synchronous sequential circuits.



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CO4 Analyse and design asynchronous sequential circuits. .

CO5 Build logic gates and use programmable devices

EC3361 ELECTRONIC DEVICES AND CIRCUITS LABORATORY

CO1 Characteristics of PN Junction Diode and Zener diode.

CO2 Design and Testing of BJT and MOSFET amplifiers.

CO3 Operation of power amplifiers.

CS3362 C PROGRAMMING AND DATA STRUCTURES LABORATORY

CO1 Use different constructs of C and develop applications

CO2 Write functions to implement linear and non-linear data structure operations

CO3 Suggest and use the appropriate linear / non-linear data structure operations for a given problem

CO4 Apply appropriate hash functions that result in a collision free scenario for data storage and Retrieval

CO5 Implement Sorting and searching algorithms for a given application

GE3361 PROFESSIONAL DEVELOPMENT

CO1 Use MS Word to create quality documents, by structuring and organizing content for their day to day technical and academic requirements

CO2 Use MS EXCEL to perform data operations and analytics, record, retrieve data as per requirements and visualize data for ease of understanding

CO3 Use MS PowerPoint to create high quality academic presentations by including common tables, charts, graphs, interlinking other elements, and using media objects.

IV SEM

EC3452 ELECTROMAGNETIC FIELDS



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- C01** Relate the fundamentals of vector, coordinate system to electromagnetic concepts.
- C02** Analyze the characteristics of Electrostatic field.
- C03** Interpret the concepts of Electric field in material space and solve the boundary conditions.
- C04** Explain the concepts and characteristics of Magneto Static field in material space and solve boundary conditions.
- C05** Determine the significance of time varying fields.

EC3401

NETWORKS AND SECURITY

- C01** Explain the Network Models, layers and functions.
- C02** Categorize and classify the routing protocols.
- C03** List the functions of the transport and application layer.
- C04** Evaluate and choose the network security mechanisms.
- C05** Discuss the hardware security attacks and countermeasures.

EC3451

LINEAR INTEGRATED CIRCUITS

- C01** Design linear and nonlinear applications of OP – AMPS
- C02** Design applications using analog multiplier and PLL
- C03** Design ADC and DAC using OP – AMPS
- C04** Generate waveforms using OP – AMP Circuits
- C05** Analyze special function ICs

EC3492

DIGITAL SIGNAL PROCESSING

- C01** Apply DFT for the analysis of digital signals and systems
- C02** Design IIR and FIR filters
- C03** Characterize the effects of finite precision representation on digital filters
- C04** Design multirate filters



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CO5 Apply adaptive filters appropriately in communication systems

EC3491 COMMUNICATION SYSTEMS

CO1 Gain knowledge in amplitude modulation techniques

CO2 Understand the concepts of Random Process to the design of communication systems

CO3 Gain knowledge in digital techniques

CO4 Gain knowledge in sampling and quantization

CO5 Understand the importance of demodulation techniques

GE3451 ENVIRONMENTAL SCIENCES AND SUSTAINABILITY

CO1 To recognize and understand the functions of environment, ecosystems and biodiversity and their conservation.

CO2 To identify the causes, effects of environmental pollution and natural disasters and contribute to the preventive measures in the society.

CO3 To identify and apply the understanding of renewable and non-renewable resources and contribute to the sustainable measures to preserve them for future generations.

CO4 To recognize the different goals of sustainable development and apply them for suitable technological advancement and societal development.

CO5 To demonstrate the knowledge of sustainability practices and identify green materials, energy cycles and the role of sustainable urbanization.

EC3461 COMMUNICATION SYSTEMS LABORATORY

CO1 Design AM, FM & Digital Modulators for specific applications.

CO2 Compute the sampling frequency for digital modulation.

CO3 Simulate & validate the various functional modules of Communication system.

CO4 Demonstrate their knowledge in base band signaling schemes through implementation of digital modulation schemes.

CO5 Apply various channel coding schemes & demonstrate their capabilities towards the improvement of the noise performance of Communication system.



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EC3462 LINEAR INTEGRATED CIRCUITS LABORATORY

- CO1** Analyze various types of feedback amplifiers
- CO2** Design oscillators, tuned amplifiers, wave-shaping circuits and multivibrators
- CO3** Design and simulate feedback amplifiers, oscillators, tuned amplifiers, wave-
- CO4** Design amplifiers, oscillators, D-A converters using operational amplifiers.
- CO5** Design filters using op-amp and perform an experiment on frequency response

EC3501 WIRELESS COMMUNICATION

- CO1** Understand The Concept and Design of a Cellular System.
- CO2** Understand Mobile Radio Propagation and Various Digital Modulation Techniques.
- CO3** Understand The Concepts of Multiple Access Techniques and Wireless Networks
- CO4** Characterize a wireless channel and evolve the system design specifications
- CO5** Design a cellular system based on resource availability and traffic demands.

EC3552 VLSI AND CHIP DESIGN

- CO1** In depth knowledge of MOS technology
- CO2** Understand Combinational Logic Circuits and Design Principles
- CO3** Understand Sequential Logic Circuits and Clocking Strategies
- CO4** Understand Memory architecture and building blocks
- CO5** Understand the ASIC Design Process and Testing.

EC3551 TRANSMISSION LINES AND RF SYSTEMS

- CO1** Explain the characteristics of transmission lines and its losses.
- CO2** Calculate the standing wave ratio and input impedance in high frequency transmission lines.
- CO3** Analyze impedance matching by stubs using Smith Charts.
- CO4** Comprehend the characteristics of TE and TM waves.
- CO5** Design a RF transceiver system for wireless communication



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CEC366 IMAGE PROCESSING

- CO1** Know and understand the basics and fundamentals of digital image processing, such as digitization, sampling, quantization, and 2D-transforms.
- CO2** Operate on images using the techniques of smoothing, sharpening and enhancement.
- CO3** Understand the restoration concepts and filtering techniques.117
- CO4** Learn the basics of segmentation, features extraction, compression and recognition methods for color models.
- CO5** Comprehend image compression concepts.

CEC365 WIRELESS SENSOR NETWORK DESIGN

- CO1** To be able to design solutions for WSNs applications
- CO2** To be able to develop efficient MAC and Routing Protocols
- CO3** To be able to design solutions for 6LOWPAN applications
- CO4** To be able to develop efficient layered protocols in 6LOWPAN
- CO5** To be able to use Tiny OS and Contiki OS in WSNs and 6LOWPAN applications

CEC345 OPTICAL COMMUNICATION & NETWORKS

- CO1** Realize Basic Elements in Optical Fibers, Different Modes and Configurations.
- CO2** Analyze The Transmission Characteristics Associated with Dispersion and Polarization Techniques.
- CO3** Design Optical Sources and Detectors with Their Use in Optical Communication System.
- CO4** Construct Fiber Optic Receiver Systems, Measurements and Techniques.
- CO5** Design Optical Communication Systems and Its Networks.



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MX3084 DISASTER RISK REDUCTION AND MANAGEMENT

- CO1** To impart knowledge on the concepts of Disaster, Vulnerability and Disaster Risk reduction (DRR)
- CO2** To enhance understanding on Hazards, Vulnerability and Disaster Risk Assessment prevention and risk reduction
- CO3** To develop disaster response skills by adopting relevant tools and technology
- CO4** Enhance awareness of institutional processes for Disaster response in the country
- CO5** Develop rudimentary ability to respond to their surroundings with potential Disaster response in areas where they live, with due sensitivity

EC3561 VLSI LABORATORY

- CO1** Write HDL code for basic as well as advanced digital integrated circuit
- CO2** Import the logic modules into FPGA Boards
- CO3** Synthesize Place and Route the digital Ips
- CO4** Design, Simulate and Extract the layouts of Digital & Analog IC Blocks using EDA tools
- CO5** Test and Verification of IC design

ET3491 EMBEDDED SYSTEMS AND IOT DESIGN

- CO1** Explain the architecture and features of 8051.
- CO2** Develop a model of an embedded system.
- CO3** List the concepts of real time operating systems.
- CO4** Learn the architecture and protocols of IoT.
- CO5** Design an IoT based system for any application.

CS3491 ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

- CO1** Use appropriate search algorithms for problem solving
- CO2** Apply reasoning under uncertainty
- CO3** Build supervised learning models
- CO4** Build assembling and unsupervised models



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C05 Build deep learning neural network models

CEC352 SATELLITE COMMUNICATION

- C01** Identify the satellite orbits
- C02** Analyze the satellite subsystems
- C03** Evaluate the satellite link power budget
- C04** Identify access technology for satellite
- C05** Design various satellite applications

CBM342 BRAIN COMPUTER INTERFACE AND APPLICATIONS

- C01** Describe BCI system and its potential applications.
- C02** Analyze event related potentials and sensory motor rhythms.
- C03** Compute features suitable for BCI.
- C04** Design classifier for a BCI system.
- C05** Implement BCI for various applications.

CEC333 ADVANCED WIRELESS COMMUNICATION TECHNIQUES

- C01** The student would be able to appreciate the necessity and the design aspects of cooperative communication
- C02** The student would be able to appreciate the necessity and the design aspects of green wireless communication.
- C03** The student would be able to evolve new techniques in wireless communication
- C04** The students would be able to demonstrate the feasibility of using mathematical models using simulation tools.
- C05** The student would be able to demonstrate the impact of the green engineering solutions in a global, economic, environmental and societal context.

MX3085 WELL-BEING WITH TRADITIONAL PRACTICES-YOGA, AYURVEDA AND SIDDHA

- C01** Learn the importance of different components of health
- C02** Gain confidence to lead a healthy life
- C03** Learn new techniques to prevent lifestyle health disorders
- C04** Understand the importance of diet and workouts in maintaining health



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EC8701 ANTENNAS AND MICROWAVE ENGINEERING

- C01** Apply the basic principles and evaluate antenna parameters and link power budgets
- C02** Design and assess the performance of various antennas
- C03** Design a microwave system given the application specifications

EC8751 OPTICAL COMMUNICATION

- C01** Realize basic elements in optical fibres, different modes and configurations.
- C02** Analyze the transmission characteristics associated with dispersion and polarization techniques.
- C03** Design optical sources and detectors with their use in optical communication system.
- C04** Construct fiber optic receiver systems, measurements and coupling techniques.
- C05** Design optical communication systems and its networks.

EC8791 EMBEDDED AND REAL TIME SYSTEMS

- C01** Describe the architecture and programming of ARM processor
- C02** Outline the concepts of embedded systems
- C03** Explain the basic concepts of real time operating system design
- C04** Model real-time applications using embedded-system concepts

EC8702 AD HOC AND WIRELESS SENSOR NETWORKS

- C01** Know the basics of Ad hoc networks and Wireless Sensor Networks
- C02** Apply this knowledge to identify the suitable routing algorithm based on the network and user requirement
- C03** Apply the knowledge to identify appropriate physical and MAC layer protocols
- C04** Understand the transport layer and security issues possible in Ad hoc and sensor networks.
- C04** Be familiar with the OS used in Wireless Sensor Networks and build basic modules

GE8071

DISASTER MANAGEMENT

- C01** Differentiate the types of disasters, causes and their impact on environment and society



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- C02** Assess vulnerability and various methods of risk reduction measures as well as mitigation.
- C03** Draw the hazard and vulnerability profile of India, Scenarios in the Indian context, Disaster damage assessment and management

EC8711 EMBEDDED LABORATORY

- C01** Write programs in ARM for a specific Application
- C02** Interface memory, A/D and D/A convertors with ARM system
- C03** Analyze the performance of interrupt
- C04** Write program for interfacing keyboard, display, motor and sensor.
- C05** Formulate a mini project using embedded system

EC8761 ADVANCED COMMUNICATION LABORATORY

- C01** Analyze the performance of simple optical link by measurement of losses and analysing the mode characteristics of fiber
- C02** Analyze the Eye Pattern, Pulse broadening of optical fiber and the impact on BER
- C03** Estimate the Wireless Channel Characteristics and Analyze the performance of Wireless Communication System
- C04** Understand the intricacies in Microwave System design

EC8094

SATELLITE COMMUNICATION

- C01** Analyze the satellite orbits
- C02** Analyze the earth segment and space segment
- C03** Analyze the satellite Link design
- C04** Design various satellite applications

Attainment of Course Outcomes

The Collection of data for CO attainment is done through Direct Assessment Methods. The Direct Assessment Methods used for the assessment of Cos by the Department are listed in table.



Direct Assessment Methods

S.No.	Methods/ Tools	Frequency of Assessment
1	Internal Assessment Examination	03/Semester
2	Class Tests	05/Semester
3	Assignments	03/Semester
4	University Examinations	01/Semester
5	Model Practical Examination	01/Semester
6	Project Reviews	04/Semester

Quality and Relevance of assessment processes and tools used

The quality and relevance of the assessment processes and tools are described below:

1. Internal Assessment Examination

Three Internal Assessment Examination are conducted in regular intervals during each semester as per the schedule mentioned in Academic Calendar. These are conducted to cover portions in stages from all the five units in each course of study to match all the Cos. The Question paper pattern

PART – A	10 x 2 = 20 Marks
PART – B	05 x 13 = 65 Marks
PART – c	01 x 15 = 15 Marks

The tests are conducted for duration of three hours for each course. The question paper is set to measure the arraignment level of the respective CO directly based on the performance of the examination. A sample assessment examination question paper shown below.

2. Class Tests

Class tests are being considered as one of the entity for the calculation of attainment of Cos. Five class tests are being conducted for all the courses in a semester.

3. Assignments

Assignment are being considered as one of the entity for the calculation of attainment of Cos. Three assignments are given for a course to the students in a



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semester. The assignment questions are framed by the faculty handling the particular course.

4. University Examinations

University Examinations have an influence in the attainment of the specific Cos with respect to the Pos. University Examination accounts weightage for the assessment of the Cos. The examinations are conducted for 100 marks covering portions of all five units of the particular course. The marks are uniformly distributed over all five units. A sample Anna University question paper is given Below.

Assessment tools and processes used for measuring the attainment of each of the Programme Outcomes and Programme Specific Outcomes

Attainments of Programme Outcomes (Pos) and Programme Specific Outcomes (PSOs) have been validated through direct (IAT, Class Tests, Assignments and University Examinations) and Indirect measurement tools (Student Feedback, Faculty Feedback, Alumni Feedback and Employer Feedback)

Direct Assessment Tools

The Courses offered by the college are credit based continuous evaluation system. Evaluation is accomplished by the course faculty throughout the semester and the university examination is conducted by the university. The direct assessment for the attainment of Pos and PSOs contribute 80%.

IAT # 1

This test is conducted 04-05 weeks after the commencement of the semester. The syllabus of the assessment examination 30-35% of the total course content.

IAT #2

This test is conducted at the mid of the semester. The syllabus for the test is the next 30-35% of the total course content.

IAT #3

This test is conducted at end of the semester. The syllabus is the remaining 30 % to 40 % of the total course content.

Assignments

Three assignments are prepared for all the subjects to evaluate the attainment of Pos and PSOs.



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University Examinations

Conducted by the university at the end of each semester.

Practical Courses

Continuous monitoring of Pos and PSOs is evaluated through student performance in the laboratory classes, Viva -voce.

Indirect Assessment Tools

PO attainment is obtained by taking Student Feedback, Faculty Feedback and Parents Feedback reports which are listed in table.

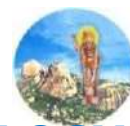
S.No.	TOOLS	Frequency of Assessment
1	Student Feedback	01 / Semester
2	Faculty Feedback	01/ Semester
3	Alumni Feedback	01/ Year
4	Employers Feedback	01/ Year



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1. Student Feedback

SSR Submission | Search results - principal@vvcet | KredovoiceOut - The Ultimate | +

← → ↻ vvcet.kredovoiceout.in/#/OtherFeedbacks ☆ ⚙

Kredo Voice Out VIDYAA VIKAS COLLEGE OF ENGINEERING AND TECHNOLOGY

STUDENT FEEDBACK ON ACADEMIC AMBIENCE

Name *

Degree *

Program *

FEEDBACK DATE *

STUDENT FEEDBACK ON ACADEMIC AMBIENCE

1	Teachers cover the syllabus with clear explanations on all topics and helps to improve student performance	<input type="radio"/> Excellent <input type="radio"/> Very Good <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
2	Teachers clarify the doubts and take to motivate the weak students.	<input type="radio"/> Excellent <input type="radio"/> Very Good <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
3	Teachers organize to participate in guest lectures/ seminars/ workshops/ internships/ field visits/ projects at industries on regular basis.	<input type="radio"/> Excellent <input type="radio"/> Very Good <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
4	Laboratory exercise are used to learn the concept.	<input type="radio"/> Excellent <input type="radio"/> Very Good <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
5	Internal tests and model examinations are benefits for university exam and improve grade points.	<input type="radio"/> Excellent <input type="radio"/> Very Good <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
6	Students' results and attendance records are informed to students and parents through proper channel.	<input type="radio"/> Excellent <input type="radio"/> Very Good <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
7	Computer lab facilities are satisfy your requirements	<input type="radio"/> Excellent <input type="radio"/> Very Good <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
	Co and Extra Curricular(sports & games) facilities give good opportunities to explore	<input type="radio"/> Excellent <input type="radio"/> Very Good <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor

35°C Partly sunny | Search | ENG IN | 13:31 28-07-2024



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2. Faculty Feedback

SSR Submission

Search results - principal@vvcet

KredoVoiceOut - The Ultimate

vvct.kredovoiceout.in/#/OtherFeedbacks

Kredo Voice Out

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FACULTY FEEDBACK DETAILS

Name *

Name

Degree *

---Select Degree---

Program *

---Select Program---

FEEDBACK DATE *

FEEDBACK DATE

FACULTY FEEDBACK DETAILS

1

Faculty monitors complete academic performance of students and adopt teaching methodologies that suit different learners.

Excellent

Very Good

Good

Fair

Poor

2

Faculty are facilitated with Laptops, LCD Projectors, Smart Boards, and WIFI to enhance ICT teaching/learning method

Excellent

Very Good

Good

Fair

Poor

3

Faculty blends additional certification and skill development programs in syllabus and facilitate to learn new skills for employability and enhance life-long learning.

Excellent

Very Good

Good

Fair

Poor

4

Faculty mentor students on regular basis in academic and overall development

Excellent

Very Good

Good

Fair

Poor

5

Academics, co and extra-curricular opportunities and facilities and ambience shaped the personality of students in terms of values, ethics, and attitudes.

Excellent

Very Good

Good

Fair

Poor

6

Institute promotes sponsored research, research publications, consultancy, faculty developments, patents etc., through faculty motivation and financial support.

Excellent

Very Good

Good

Fair

Poor

7

Class rooms and Laboratory ambience are good for effective instructional delivery and practice.

Excellent

Very Good

Good

Fair

Poor

35°C

Partly sunny

Search

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VIDYAA VIKAS COLLEGE OF ENGINEERING AND TECHNOLOGY

CRITERION - II



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(Approved by AICTE-New Delhi, Affiliated to Anna University – Chennai)

3. Employer Feedback

SSR Submission X Search results - principal@vvcet X KredovoiceOut - The Ultimate X +

← → ↻ vvcet.kredovoiceout.in/#/OtherFeedbacks ☆

Kredo Voice Out VIDYAA VIKAS COLLEGE OF ENGINEERING AND TECHNOLOGY

EMPLOYER FEEDBACK DETAILS

Name *

Degree *

Program *

FEEDBACK DATE *

EMPLOYER FEEDBACK DETAILS

1	Our graduates have Strong technical skills and domain expertise.	<input type="radio"/> Excellent <input type="radio"/> Very Good <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
2	Our graduates have Good communication and interpersonal skills.	<input type="radio"/> Excellent <input type="radio"/> Very Good <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
3	Our graduates have Good aptitude and problem solving skills.	<input type="radio"/> Excellent <input type="radio"/> Very Good <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
4	Our graduates collaborate with team members and undertake multidisciplinary tasks.	<input type="radio"/> Excellent <input type="radio"/> Very Good <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
5	Our graduates practice good values and ethics.	<input type="radio"/> Excellent <input type="radio"/> Very Good <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
6	Our graduates have Self-learning and life-long learning capabilities.	<input type="radio"/> Excellent <input type="radio"/> Very Good <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
7	The institution facilitated students self-learning by providing certification programs and laboratory practices that helps to acquire advanced knowledge and skills.	<input type="radio"/> Excellent <input type="radio"/> Very Good <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
8	The institution has given strong exposure to ICT tools and latest technologies.	<input type="radio"/> Excellent <input type="radio"/> Very Good <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor

35°C Partly sunny Search ENG IN 13:34 28-07-2024



VIDYAA VIKAS

COLLEGE OF ENGINEERING AND TECHNOLOGY

Tiruchengode – 637214



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4.Alumni Feedback

SSR Submission x Search results - principal@vvcet x KredovoiceOut - The Ultimate x +

← → vvcetkredovoiceout.in/#/OtherFeedbacks

Kredo Voice Out VIDYAA VIKAS COLLEGE OF ENGINEERING AND TECHNOLOGY

ALUMNI FEEDBACK DETAILS

Name *

Degree *

Program *

FEEDBACK DATE *

ALUMNI FEEDBACK DETAILS

1	Teachers and their mentorships helped to improve academic performance and excel in co and extra- curricular activities.	<input type="radio"/> Excellent <input type="radio"/> Very Good <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
2	Teachers have adopted both face-to-face teaching and online learning methodologies.	<input type="radio"/> Excellent <input type="radio"/> Very Good <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
3	Value added and certification programs are incorporated in syllabus to learn new skills for employability and life-long learning.	<input type="radio"/> Excellent <input type="radio"/> Very Good <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
4	The opportunities to participate in NSS/NCC/ Redcross/IRC and in other Outreach activities inculcated social responsibilities.	<input type="radio"/> Excellent <input type="radio"/> Very Good <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
5	Academics, co and extra-curricular facilities and ambience shape the personality in terms of values, ethics, and attitudes.	<input type="radio"/> Excellent <input type="radio"/> Very Good <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
6	Institute provides career development, personality development, communication skills development, employability skills development programs and enables good placements and higher studies avenues.	<input type="radio"/> Excellent <input type="radio"/> Very Good <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
7	Class Rooms and Laboratory facilities are equipped with ICT Tools, LCD Projectors, Smart Boards, Wireless internet etc.	<input type="radio"/> Excellent <input type="radio"/> Very Good <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor

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2.6.3 PASS PERCENTAGE OF STUDENTS DURING LAST FIVE YEARS

Academic Year	2022-23	2021-22	2020-21	2019-20	2018-19
Number of Students Appeared in the final year examination	62	103	169	206	196
Number of Students Passed in final year examination	49	81	161	197	122

