



Estd. 2001

VIVEKANANDHA

COLLEGE OF ENGINEERING FOR WOMEN

[Autonomous]



Prof. Dr. M. Karunanithi,
CHAIRMAN & SECRETARY



DEPARTMENT OF INFORMATION TECHNOLOGY

ZealTech-2k23

NEWS LETTER

2023-2024 ODD SEM

VOLUME 5 ISSUE 9

Department Vision

Providing quality education to transform students into technically competent skilled women to excel in IT profession, innovation and entrepreneurship.

Department Mission

- To empower knowledge on cutting-edge technologies in the field of Information Technology to develop innovative solutions for real-world problems.
- To create a platform for innovation, research and new technology development
- To inculcate ethical practices, life-long learning and sense of societal responsibilities to support the career and personal development of the learners.

About the Institution

Vivekanandha college of Engineering for women(VCEW) is autonomous; self-financing engineering college approved by AICTE and affiliated to Anna University. VCEW was founded by a Philanthropist Prof. Dr. M. Karunanithi, B.Pharm., M.S., Ph.D., D.Litt., in the year 2001 with the vision of providing technical education for rural women. It is accredited by NBA Tier I (CSE, EEE, BT & IT), NAAC, and Tata Consultancy Service (TCS). The Institution is marching towards excellence under the able guidance of Prof. S. Kuppuswami, B.E., M.Sc(Engg)., Dr.Ing(France)., a well-known academician in the field of technical education for the past four decades. He is a former Pro-Vice-Chancellor of Pondicherry University and an expert member in various acadmic bodies like UNIDO, UNESCO, MHRD, UGC, AICTE, NBA & NAAC. The College offers seven UG (CSE, EEE, ECE, BME, CST, IT & BT), five PG (CSE, PSE, VLSI, IT & BT), and four Research Programmes in the departments of CSE, EEE, ECE & Chemistry. The Rooms, Digital Library, and AV halls for effective knowledge transformation. VCEW is the recipient of the National Award for the Best Women Engineering College in India” awarded by the Indian Society for Technical Education (ISTE), New Delhi during the year 2018.

Vision

To impart value based education in Engineering and Technology to empower young women to meet the societal exigency with a global outlook.

College Mission

- To provide holistic education through innovative teaching-learning practices
- To in still self confidence among rural students by supplementing with co-curricular and extra-curricular activities
- To inculcate the spirit of innovation through training, research and development
- To provide industrial exposure to meet the global challenges
- To create an environment for continual progress through lifelong learning

About the Department

The Department of Information Technology was established in the year 2001 . During the inception the intake was 45. Intake was increased to 60 in 2004. The Department is offering UG (B.Tech., IT) and PG (M.Tech., IT) courses. The department is accredited by NBA. The primary goal of our department is to provide best IT infrastructure, learning & research environment, adopt industry practices through industry collaborations and inculcate moral and ethical values.

The Department has well experienced faculty members with specialization in Data Mining, Computer Networks, Network Security, Cyber Security, Big Data Analytics, Image Processing, Artificial Intelligence, Cloud Computing and Internet of Things. The department concentrates in imparting value based education and reach for the highest levels of intelligence in all works of life and to provide individual attention and to give more room for research and industrial interaction. The Department has a separate library with the collection of more than 2600 books for exclusive use of faculty and students.

PROGRAMMES OFFERED

B.Tech. Information Technology

M.Tech. Information Technology

Editorial

Advisory Board: Dr.S.Radha, HoD/IT

Editorial Board: Mrs.S.Merena, AP/IT

Technical Support: Ms.G.Madhu mitha, AP/EEE

Student Coordinator: Devadharshini.R IV-IT, Ananthika.V III-IT

FROM THE HOD'S DESK



Dr.S.Radha B.E.,M E., Ph.D.,
Associate Professor & Head,
Vivekanandha College of Engineering for Women.

Welcome to the Department of Information Technology is pleased to release its Newsletter for the Academic Year 2023–24 (Odd Semester). I, as a head of the department would like to thank all the faculty members, non-teaching staffs and students for their limitless support and sincere efforts for the betterment and development of department. Our Mentoring and Training department nurtures and guides the talent pool and organizes many programs to make them industry fit and right choice for the companies.

On this occasion, I congratulate all the team members of the editorial board for bringing up this issue in a better shape.

Offices Bearers of ZealTech-2k23 for the Academic year 2023- 2024



Secretary
P. Ashmitha-IV Year



Treasurer
R. Devadharshini-IV Year



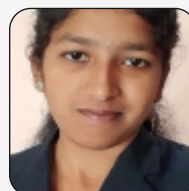
Joint Secretary
V. Ananthika-III Year



Executive Member
K.Dharani-IV Year



Executive Member
M.Harishma Devi-IV Year



Executive Member
Sridevi.S-III Year



Executive Member
K.Viswashini-III Year

Association Activities

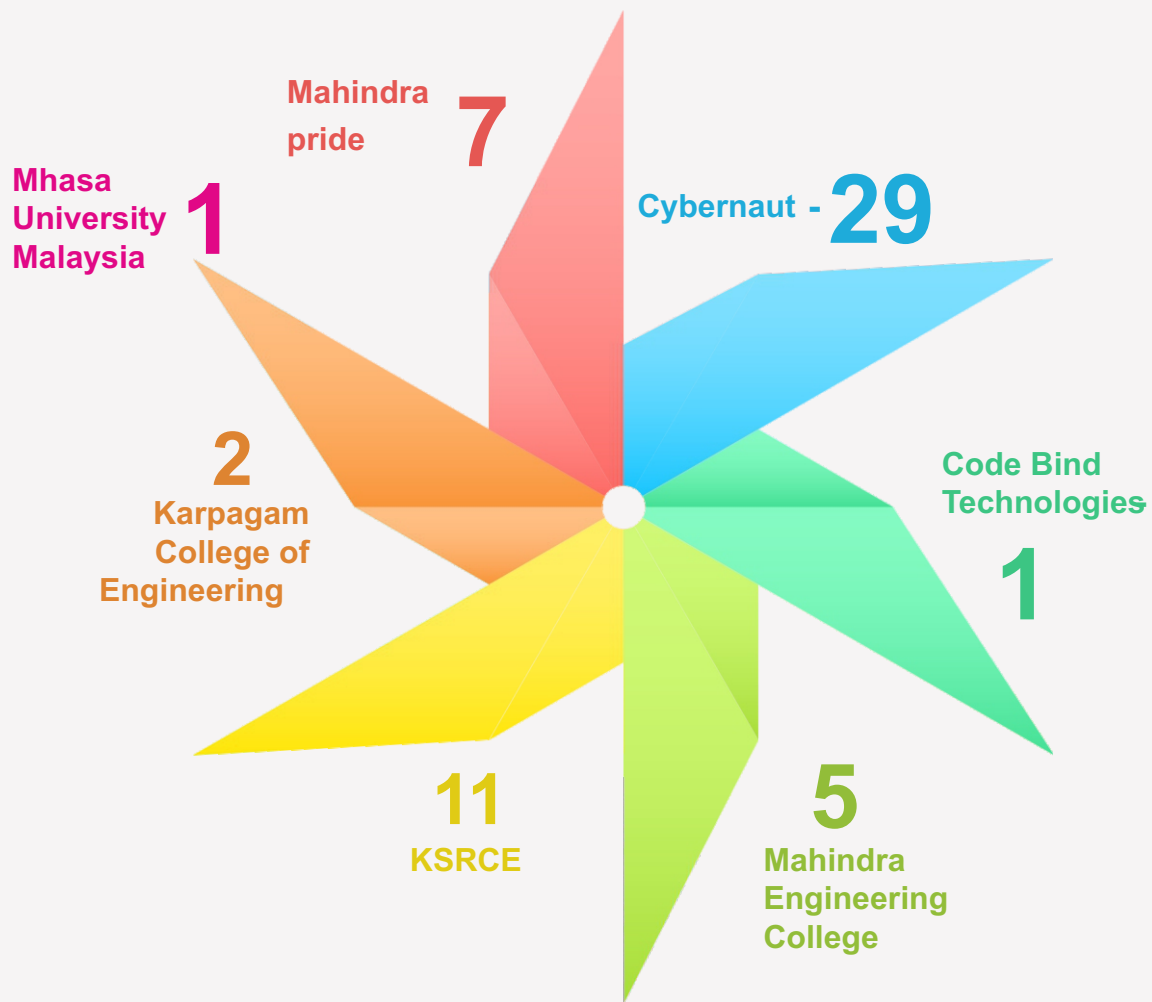
S.No	Date	Name of the Programme /Topic	Resource Person	Students Attended	Photo
1	25.08.2023	Association Inauguration- Workshop on Career Insights	Ms.Annapoorani Kadhiravan, Project Engineer, Wipro Private Limited, Coimbatore.	III,IV year IT Students (117)	
2	25.08.2023	Workshop on MERN Stack Technologies	Mr.Jayasurya Gnanavel, Founder & CEO, Cybernaut, Chennai.	IV year IT Students (55)	
3	22.09.23	Workshop on PC Hardware & Troubleshooting	Mr.S.Rajababu, Hardware Engineer, VCEW	III year IT Students (62)	
4	12.12.23	Seminar on FPGA Based AI Implementation	Dr.T.Kalavathi D evi Associate Professor / EIE Kongu Engineering College, Perundurai	I I year IT Students (61)	

Students Participations

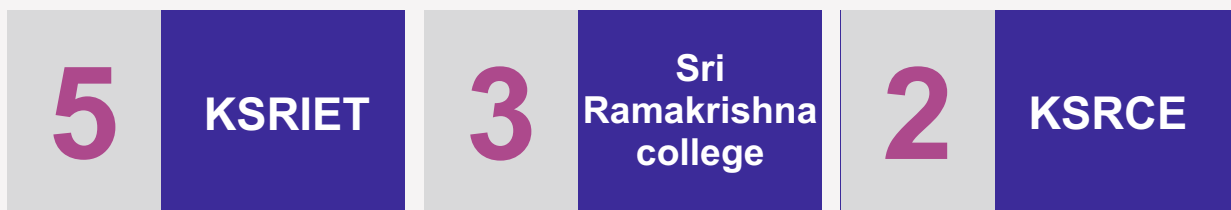
Internship training:

Company Name	Ranking
NLC India Limited	1
Nxtlogic Software Solution	13
Gateway Software Solutions	10
NandhaInfotech	8
Live Stream Technology	5
Codebind Technology	2
Object Automation Solution	10
Shiash Info solutions Pvt.Ltd.	5
Bhive Technologies	1

Workshop Attended:



Paper Presentation:



ONLINE COURSE – ATTENDED BY FACULTY NPTEL

S.No.	Name of the faculty	Date	Topic	Name of the college
1.	Ms.C.Visali	Jul-Oct 2023 (12 Weeks)	Cyber Security and privacy	NPTEL
2.	Ms.I.Kalaiyarasi	Jul-Aug 2023 (04 Weeks)	Python for Data Science	NPTEL
3.	Ms.P.Sudha	Jul-Aug 2023 (04 Weeks)	Python for Data Science	NPTEL
4.	Ms.P.Sudha	16.10.2023 to 20.10.2023	Python Essentials-1	Cisco Networking Academy
5.	Ms.S.Brindha	13.09.2023	Microsoft Azure Fundamentals: Describe cloud concepts	Microsoft
6.	Ms.S.Brindha	13.09.2023	Understand Data science for Machine learning	Microsoft
7.	Ms.S.Brindha	13.09.2023	GitHub Copilot Fundamentals- Understand the AI pair programmer	Microsoft
8.	Ms.S.Brindha	13.09.2023	Create Machine learning models	Microsoft

9.	Ms.S.Brindha	13.09.2023	Foundation of data science for machine learning	Microsoft
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Seminar-Attended by Faculty

S.No.	Name of the faculty	National / International	Date	Topic	Name of the college
1.	Ms.T.Janani	International	06.04.2024	AI and ML for Environment, Sustainability and Governance (ESG)	BVICAM, New Delhi
2.	Mr.E.Thangadurai	International	11.10.2023	IoT and Its Applications	Anna University
3.	Ms.T.Haritha	International	02.10.2023	Leveraging Technology for a Better Tomorrow	BVICAM, New Delhi
4.	Ms.T.Janani	International	02.10.2023	Leveraging Technology for a Better Tommorow	BVICAM, New Delhi
5.	Mr.E.Thangadurai	International	09.09.2023	AI in Fashion Design	BVICAM, New Delhi
6.	Ms.T.Haritha	International	09.09.2023	AI in Fashion Design	BVICAM, New Delhi
7.	Ms.T.Janani	International	09.09.2023	AI in Fashion Design	BVICAM, New Delhi
8.	Ms.T.Haritha	International	22.08.2023	The Applicaton of IoT and Wireless	BVICAM, New Delhi

				Sensor Networks in Smart Agriculture	
9.	Ms.T.Janani	International	22.08.2023	The Application of IoT and Wireless Sensor Networks in Smart Agriculture	BVICAM, New Delhi
10.	Ms.T.Haritha	International	15.08.2023	Introduction to Data Engineering: Basics and Best Practices	GUVI
11.	Ms.T.Haritha	International	22.07.2023	The art of Writing Quality Research Papers	BVICAM, New Delhi
12.	Ms.T.Janani	International	22.07.2023	The art of Writing Quality Research Papers	BVICAM, New Delhi

Workshop Attended by Faculty

S.No.	Name of the faculty	National / International	Date	Topic	Name of the college
1.	Ms. R.Logambal	International	18.12.2023	Proposal Writing	PALS
2.	Ms.B.Madhubala	International	18.12.2023	Proposal Writing	PALS
3.	Ms. B.Madhubala	International	05.12.2023	Lean Six Sigma Intensive Course	Sparen & Gewinn

4.	Ms. B.Madhubala	International	26.11.2023	AI Tool Workshop	be10X
5.	Dr.A.V.Santhosh Babu	National	17.11.2023 & 18.11.2023	The Art of Writing/Winning Research proposal	VCEW
6.	Mr.E.Thangadurai	National	17.11.2023 & 18.11.2023	The Art of Writing/Winning Research proposal	VCEW
7.	Ms.P.Sudha	National	02.09.2023 & 03.09.2023	Design Thinking Based Education	VCEW
8.	Ms.S.Brindha	National	02.09.2023 & 03.09.2023	Design Thinking Based Education	VCEW

FACULTY DEVELOPMENT PROGRAMME

S.No.	Name of the faculty	Date	Topic	Name of the college
1.	Ms. R.Logambal	18.12.2023 to 24.12.2023	Deep Learning & AI Base Health Care Systems	Coimbatore Institute of Technology
2.	Dr.A.V.SanthoshBabu	04.12.2023 to 09.12.2023	Applications of Cyber Security Intelligence and Analytics	KSRCT

3.	Ms.T.Haritha	04.12.2023 to 09.12.2023	Applications of Cyber Security Intelligence and Analytics	KSRCT
4.	Ms.T.Janani	04.12.2023 to 09.12.2023	Applications of Cyber Security Intelligence and Analytics	KSRCT
5.	Ms. I.Kalaiyarasi	16.11.2023 to 27.11.2023	Dynamics of research, professional ethics & universal Human Values in Holistic Development	VICAS
6.	Mrs.Madhubala.B	22.11.2023 to 24.11.2023	Emerging Technologies & Real World Applications	PALS
7.	Ms.C.Visali	Jul-Oct 2023 (12 Weeks)	Cyber Security and Privacy	NPTEL
8.	P.Sudha	16.10.2023 to 20.10.2023	Programming Essentials in Python	ICT ACADEMY
9.	Ms.C.Visali	16.10.2023 to 18.10.2023	Virtual Lab	PALS
10.	Ms.T.Haritha	13-10-2023	Industry 4.0: Applications of Deep Learning and Artificial Intelligence in Computer Vision Perspectives	Presidency University, Bengaluru
11.	Ms.T.Janani	13-10-2023	Industry 4.0: Applications of Deep Learning and Artificial Intelligence in	Presidency University, Bengaluru

			Computer Vision Perspectives	
12.	Ms.C.Visali	13-10-2023	Industry 4.0: Applications of Deep Learning and Artificial Intelligence in Computer Vision Perspectives	Presidency University, Bengaluru
13.	Ms.S.Brindha	11.09.2023 to 15.09.2023	Microsoft Power BI Data Analyst Associate	ICT Academy , Velalar College of Engineering and Technology, Erode
14.	P.Sudha	Jul-Aug 2023 (04 Weeks)	Python for Data Science	NPTEL
15.	Ms.I.Kalaiyarasi	Jul-Aug 2023 (04 Weeks)	Python for Data Science	NPTEL
16.	Ms.C.Visali	28.08.2023 to 15.09.2023	Empowering Entrepreneurship for Health, Food and Technology Innovation	AMET University
17.	Ms.T.Haritha	21.08.2023 to 25.08.2023	Cloud Infrastructure (AWS)	AICTE & Brain O Vision Solutions

18.	Ms.T.Janani	21.08.2023 to 25.08.2023	Cloud Infrastructure (AWS)	AICTE & Brain O Vision Solutions
19.	Ms.T.Haritha	21.08.2023 to 25.08.2023	AI and NLP Case Studies and Applications	Presidency University, Bengaluru
20.	Ms.T.Janani	21.08.2023 to 25.08.2023	AI and NLP Case Studies and Applications	Presidency University, Bengaluru
21.	Ms.C.Visali	21.08.2023 to 25.08.2023	AI and NLP Case Studies and Applications	Presidency University, Bengaluru
22.	Ms.I.Kalaiyarasi	11.08.2023 & 12.08.2023	Innovation and Entrepreneurship	IIC,VCEW
23.	Ms.I.Kalaiyarasi	12.08.2023	Faculty Induction Program	IQAC,VCEW
24.	Ms.P.Sudha	12.08.2023	Faculty Induction Program	IQAC,VCEW
25.	Ms.I.Kalaiyarasi	27.07.2023& 28.07.2023	Designing, PCB Designing and Manufacturing	AICTE IDEA LAB @ VCEW
26.	Ms.T.Haritha	03.07.2023 to 08.07.2023	Current Trends in Engineering Trends and Technology	Sree Sakthi Engineering College
27.	Ms.S.Merena	15.06.2023 to 16.06.2023	AI For Delightful Teaching Experience	AICTE IDEA LAB & VCEW

28.	Ms.PSudha	15.06.2023 to 16.06.2023	AI For Delightful Teaching Experience	AICTE IDEA LAB & VCEW
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**RESEARCH PUBLICATIONS BY FACULTY (NATIONAL &
INTERNATIONAL)**

S.No.	Name of the Author(s)	International	UGC/ Scopus / Others	Publication date	Name of the journal	Title of the paper	ISSN no.
1.	Ms.S.Merena	International	UGC 7.95	Sep 2023	JETIR	Smart bus arrived time route prediction using ANN for public transport using IOT Technology : A Survey	Vol. 10, Issue 9 ISSN: 2349-5162
2.	Dr.A.V.Santosh Babu	International	SCI 1.882	Sep 2023	International Journal of Communication Systems	Workload prediction for enhancing power efficiency of cloud data centers	ISSN:1074-5351 Vol 37

						using optimized self- attention- based progressive generative adversarial network	
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NUMBER OF BOOKS / BOOK CHAPTERS PUBLISHED BY FACULTY

S.No.	Name of the faculty	Name of the book / book chapter	Topic	ISBN No.	Publisher name	Publication date
1.	Mr.E.Thangadurai	Book	Machine Learning for Health care Informatics: Extracting Valuable insights from Big data	ASIN:BOC N6M8CM 5 ISBN- 13:979- 8891862 487	Notion Press	13.11.2023

2.	Ms.C.Visali	Book	Machine Learning for Health care Informatics: Extracting Valuable insights from Big data	ASIN:BOC N6M8CM 5 ISBN- 13:979- 8891862 487	Notion Press	13.11.2023
3.	Ms.R.Logambal	Book	Machine Learning for Health care Informatics: Extracting Valuable insights from Big data	ASIN:BOC N6M8CM 5 ISBN- 13:979- 8891862 487	Notion Press	13.11.2023
4.	Ms.S.Brindha	Book	Machine Learning for Health care Informatics: Extracting Valuable insights from Big data	ASIN:BOC N6M8CM 5 ISBN- 13:979- 8891862 487	Notion Press	13.11.2023
5.	Dr.S.Radha	Book Chapter	A Generic Big Data Analytics With Particle Swarm	ISSN:232 8-1243 EISSN:2328- 126X	IGI Global Platform Scopus Indexed	July 2023



			Optimization for Clinical Machine Learning			
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PATENTS FILED/PUBLISHED/AWARDED


S.No.	Name of the faculty	Topic	Indian / Foreign	Patent no.	Filed/ Published/ Awarded
1.	Dr.S.Radha	Early Forest Fire Detection based on Artificial Intelligence	Indian Patent	202341080986A	Published on 29.12.2023
2.	Ms.C.Visali	Early Forest Fire Detection based on Artificial Intelligence	Indian Patent	202341080986A	Published on 29.12.2023
3.	Ms. P.Sudha	Early Forest Fire Detection based on Artificial Intelligence	Indian Patent	202341080986A	Published on 29.12.2023
4.	Ms.I.Kalaiyarasi	Early Forest Fire Detection based on Artificial Intelligence	Indian Patent	202341080986A	Published on 29.12.2023
5.	Ms. B.Madhubala	Early Forest Fire Detection based on Artificial Intelligence	Indian Patent	202341080986A	Published on 29.12.2023
6.	Ms.T.Haritha	Intelligent AI with Machine Vision for Reading Recognition System	Indian Patent	202321055087	Published on 06.10.23

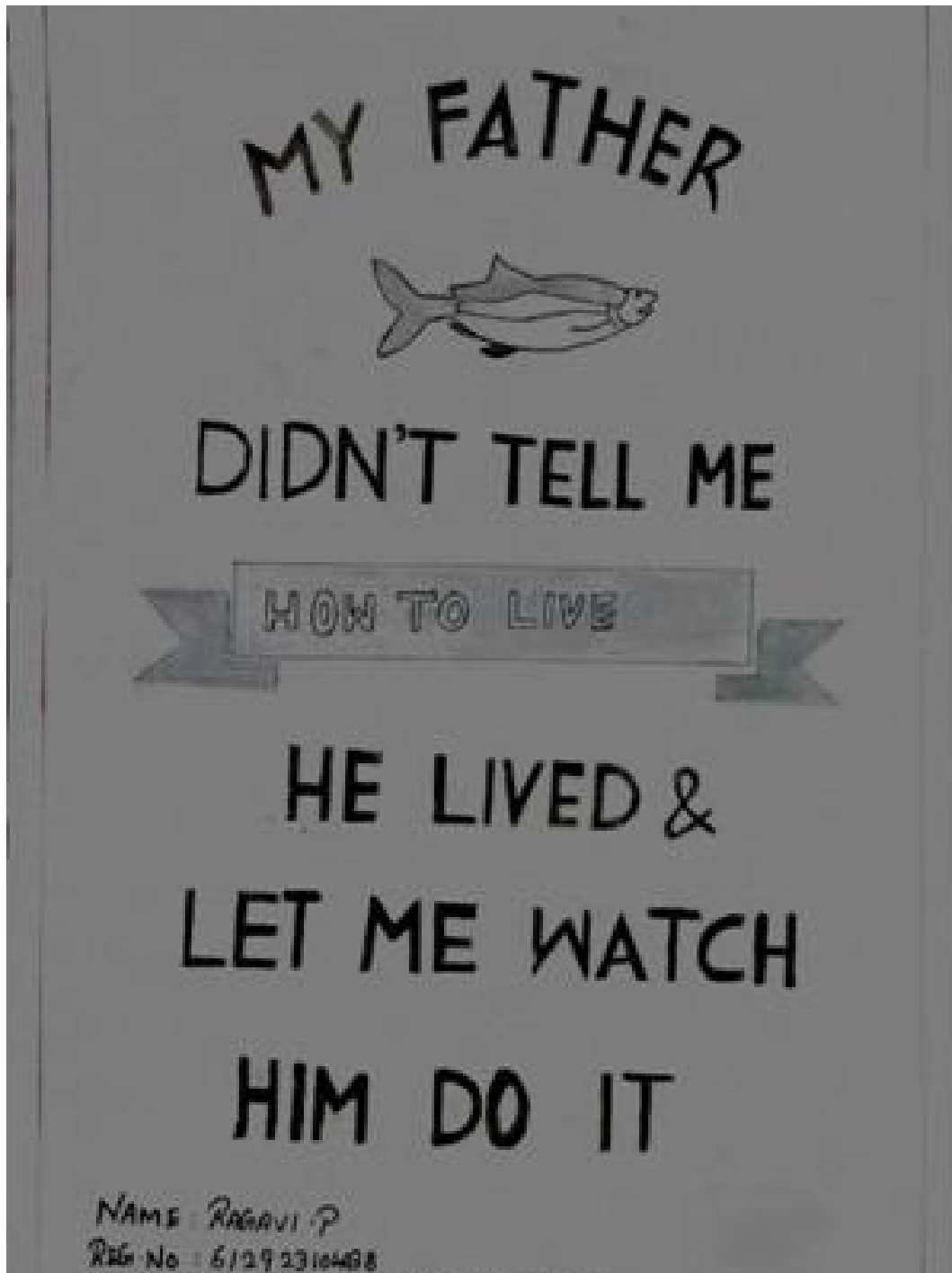
7.	Ms.T.Janani	Intelligent AI with Machine Vision for Reading Recognition System	Indian Patent	202321055087	Published on 06.10.23
8.	Dr.S.Radha	Signs with Smart Connectivity for Better Road Safety	Indian Patent	202341060756	Published on 06.10.23
9.	Ms.C.Visali	Signs with Smart Connectivity for Better Road Safety	Indian Patent	202341060756	Published on 06.10.23

Industrial visit

S. NO.	COURSE	TOTAL STRENGTH	PLACE	DATE	PHOTO
1	III,IV B.Tech.IT	97	IROHUB - COCHIN	27.12.2023	
2	II B.Tech.IT	47	IROHUB - COCHIN	24.11.2023	

TOUR DETAILS

S. NO.	COURSE	TOTAL STRENGTH	PLACE	DATE	PHOTO
1	III,IV B.Tech.IT	97	WONDERLA, VAGAMON	27.12.2023 TO 28.12.2023	
2	II B.Tech.IT	47	IROHUB – COCHIN	24.11.2023 & 25.11.2023	





VIVEKANANDHA EDUCATIONAL INSTITUTIONS



"Vidhya Rathna"

Prof. Dr. M. KARUNANITHI, B.Pharm., M.S., Ph.D., D.Litt.,
Chairman & Secretary

TIRUCHENGODE CAMPUS

- ★ SWAMY VIVEKANANDHA MEDICAL COLLEGE HOSPITAL AND RESEARCH INSTITUTE
- ★ VIVEKANANDHA DENTAL COLLEGE FOR WOMEN
- ★ SWAMY VIVEKANANDHA COLLEGE OF PHARMACY
- ★ VIVEKANANDHA COLLEGE OF NURSING
- ★ VIVEKANANDHA SCHOOL OF ANM
- ★ SWAMY VIVEKANANDHA PHYSIOTHERAPY COLLEGE
- ★ VIVEKANANDHA ALLIED HEALTH SCIENCE COLLEGE (Co - Ed)
- ★ KRISHNA INSTITUTE OF OPTOMETRY AND RESEARCH
- ★ KRISHNA INSTITUTE OF HEALTH SCIENCE & RESEARCH (Boys)
- ★ KRISHNA INSTITUTE OF HEALTH SCIENCE (Boys)
- ★ VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN (Autonomous)
- ★ VIVEKANANDHA COLLEGE OF TECHNOLOGY FOR WOMEN
- ★ VIVEKANANDHA INSTITUTE OF INFORMATION AND MANAGEMENT STUDIES
- ★ VIVEKANANDHA COLLEGE OF ARTS AND SCIENCES FOR WOMEN (Autonomous)
- ★ VIVEKANANDHA COLLEGE FOR WOMEN
- ★ VIVEKANANDHA COLLEGE OF EDUCATION FOR WOMEN
- ★ KRISHNA COLLEGE OF EDUCATION FOR WOMEN
- ★ VIVEKANANDHA VIDHYA BHAVAN MATRIC HIGHER SECONDARY SCHOOL
- ★ VIVEKANANDHA MEDICAL CARE HOSPITAL (VMCH)

SANKAGIRI CAMPUS

- ★ SWAMY VIVEKANANDHA NATUROPATHY AND YOGA MEDICAL COLLEGE (Co-Ed)
- ★ VIVEKANANDHA NURSING COLLEGE FOR WOMEN
- ★ VIVEKANANDHA PHARMACY COLLEGE FOR WOMEN
- ★ VIVEKANANDHA ANM SCHOOL
- ★ VIVEKANANDHA INSTITUTE OF HEALTH SCIENCE (Boys)
- ★ RABINDHARANATH TAGORE COLLEGE OF EDUCATION FOR WOMEN
- ★ VISWABHARATHI COLLEGE OF EDUCATION FOR WOMEN
- ★ VIVEKANANDHA ARTS AND SCIENCE COLLEGE FOR WOMEN

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