Best Practices-I

INDUSTRY COLLOBRATION

1.1. Title of the Practice

Industry Collaboration.

1.2. Objectives of the Practice

1. **Enhance Employability Skills:**

   Provide students with industry-relevant knowledge, skills, and exposure to prepare them for competitive job markets.

2. **Hands-On Learning:**

   Facilitate practical learning through internships, industrial visits, and live projects in collaboration with leading companies.

3. **Bridge Academia-Industry Gap:**

   Align academic curriculum with current industry practices to ensure students meet employer expectations.

4. **Encourage Innovation:**

   Motivate students to work on real-time industry problems, fostering innovation and entrepreneurial thinking.

5. **Career Opportunities:**

   Increase placement opportunities by building partnerships with Tier-1 and Tier-2 companies.

6. **Up skilling Programs:**

   Conduct certification courses, training, and workshops in collaboration with industries to upgrade technical and soft skills.

7. **Research Collaboration:**

   Encourage students to participate in collaborative research projects with industries to gain exposure to advanced technologies.

8. **Start-up Ecosystem Support:**

   Foster a start-up culture by enabling access to incubation support and mentorship from industry experts.

9. **Global Exposure:**

Establish collaborations with multinational corporations to provide students with global internship and employment opportunities.

10. **Promote Lifelong Learning:**

Instill a mind-set of continuous learning through industry engagement, making students adaptive to technological advancements.

1.3. The Context

At Paavai Engineering College, the significance of bridging the gap between academia and industry is deeply acknowledged. Industry collaboration plays a pivotal role in equipping students with real-world knowledge, skills, and experience, ensuring their readiness for the competitive global workforce.

Through strategic partnerships with leading companies and industries, the institution facilitates an ecosystem where students can actively engage in industry-relevant projects, internships, and workshops. These collaborations not only enhance technical competencies but also expose students to emerging trends, cutting-edge technologies, and practical challenges faced by industries.

Additionally, industry collaboration provides opportunities for students to interact with professionals, participate in expert lectures, and work on live case studies, fostering innovation and entrepreneurial thinking. The establishment of Centers of Excellence powered by industry leaders further ensures that students receive hands-on training in advanced tools and technologies.

By embedding industry collaboration into the academic framework, Paavai Engineering College empowers students to build strong professional networks, improve employability, and align their learning outcomes with industry demands, making them future-ready engineers and innovators.

1.4. The Practice

At Paavai Engineering College, *Industry Collaboration* is a cornerstone of student development, aiming to bridge the gap between academic learning and industrial practices. The institution has established partnerships with leading industries to provide students with hands-

on training, internships, and real-time exposure to cutting-edge technologies. These collaborations facilitate the establishment of industry-powered Centers of Excellence, offering students access to state-of-the-art facilities and mentorship from industry experts. Regular workshops, seminars, and guest lectures by professionals enhance students' understanding of industry requirements and trends. Moreover, the college actively encourages students to participate in industry-sponsored projects and research initiatives, fostering innovation and entrepreneurial skills. This synergistic approach ensures that students graduate with practical knowledge and are well-prepared to meet the demands of the professional world.

1.5. Evidence of Success

The practice of Industry Collaboration at Paavai Engineering College has significantly enhanced student outcomes, providing tangible evidence of its success. Through partnerships with leading industries, students have gained access to industry-powered Centers of Excellence, enabling hands-on training with state-of-the-art tools and technologies. This collaboration has resulted in a noticeable increase in internship opportunities, both in India and abroad, ensuring students are industry-ready upon graduation. Industry-aligned workshops, seminars, and real-world project opportunities have empowered students to bridge the gap between academic learning and professional expectations. The active involvement of industry experts in mentoring students has also fostered innovation and entrepreneurial skills, reflected in the growing number of start-ups incubated by the college.

- ➢ Paavai Engineering College earned AICTE's All India First Rank for Best Internship Record in 2023–2024 and was recognized for Outstanding Achievement for six consecutive years.
- ➢ PEC is among India's top three engineering colleges, winning the CII Industrial Innovation Award for two consecutive years.
- ➢ Paavai Engineering College has established an Industry-Academia Collaboration, fostering partnerships with over 25 industries, startups, and organizations to promote innovation, advanced research, and comprehensive skill development.
- ➢ 138 students across various branches completed online internships offered by Taiwan universities in courses such as Mental Health, Healthy Aging, Global Health, Web Design, AI Applications in Management, and Machine Learning and 15 students have visited Asia

University, Taiwan during Aug, 05 – Aug, 20, 2023 to do internship on 'Artificial Intelligence'.

➢ Google Developer Student Clubs - Paavai Engineering College set a record in the India Book of Records on 13.09.23 with the event 'Maximum Students doing Python Programming in Google Colaboratory with Social Messages.'

➢ IIC, EDC, and Crescent IIC jointly organized an intra-college AGRI TECH HACKATHON 2024 on 31.05.24.

➢ Received MSME 2.0 and 3.0 grants totaling ₹37.2 lakhs for three projects.

➢ Secured ₹2 lakhs in funding from AICTE for a project.

➢ The Aeronautical Engineering Department, in collaboration with Jet Aerospace and IIT Delhi, conducted a five-day program on Drone Technology from 19–24 January 2024.

➢ Shalini (III Year IT) won ₹10,000 in 'Design Hackathon'24 for Women Engineers' by TANCAM on 22.03.24.

➢ In partnership with NIELIT Calicut, PEC offered a bridge course on 3D Printing & CAD Modelling, certifying over 3,000 students, including gold recipients.

➢ PEC was recognized as a Mentor Institute by the Ministry of Education and AICTE, with a ₹2.25 lakh grant, and has partnerships with ISRO, NIT, Siemens, Infosys, and over 70 industries.

Industry Collaboration

2023-24

Best Internship Record on Internship Day on 23.01.2024

CII

Confederation of Indian Industry

CII INDUSTRIAL INNOVATION AWARDS 2022

Recognising Champions of Indian Innovation

CII Industrial Innovation Awards 2022

This is to certify that

Paavai Engineering College

is one of the **Top 3 Innovative Institute 2022 (Disruptive Innovation)**

December 2022

Dr Ashish Mohan
Executive Director- Technology, Innovation, Research, Design & IP
Confederation of Indian Industry

Mr Vipin Sondhi
Chairman, CII National Mission on Technology, Innovation and Research
Chairman, CII Industrial Innovation Awards 2022

CII Industrial Innovation Award

MICROSOFT AI	
ABB - AMS ROBOTIC TECHNOLOGY HUB	
EDUSKILLS	
AWS ACADEMY	
PALOALTO NETWORKS	
FORTINET	
SS&C BLUE PRISM	
ALTERYX SPARKED	
MICROCHIP TECHNOLOGY	
CELONIS	

UI PATH ACADEMIC ALLIANCE	UiPath™ Academic Alliance
ZSCALER ACADEMY	zscaler™
BENTLEY EDUCATION	Bentley Education
GOOGLE FOR DEVELOPERS	Google Developers
MONGODB	MongoDB®
VMWARE IT ACADEMY	vmware® IT ACADEMY
ANSYS	Ansys
ISRO-BALOON SATELLITE LAUNCHING STATION	इसरो isro
AMS - IIOT CENTRE	AMS-India
JET AEROSPACE – GLOBAL DRONE HUB	JET AEROSPACE GLOBAL DRONE HUB ESTD 2006 www.jetaero.in

PUPA VENTURES	
JUNIPER NETWORKS CENTRE	
PRASHAN MEDICAL TECHNOLOGIES	
TVS HARITA TECHSERVE	
VERTICAL MECHINING CENTRE	

Internship at Taiwan Universities

India Book of records maximum students doing Python Programming in Google Colaboraty

AGRI TECH HACKATHON 2024" on 31.05.2024

The Project "Preparation of Bio-Plastic from Sterculia Foetida Leaves" has been sanctioned of Rs.11,05,000 from MSME 3.0 Champion Scheme

Council for Technical Education
(A Statutory body under Ministry of Education, Govt. of India)
Nelson Mandela Marg, Vasant Kunj, New Delhi-110070 Website: www.aicte-india.org

File No.- P/11/2024-US C1/1 (Computer No. 4959)   Dated: - 06.05.2024

Grant Support to Innovations - Sanction Letter

To
The Drawing and Disbursing Officer,
All India Council for Technical
Education, Nelson Mandela Marg,
Vasant Kunj, New Delhi - 110070

Sub: Release of Rs. 100000/- (Rupees One Lakh only) being the Grant-in-Aid under the scheme of Grant Support to Innovations, MIC for the year 2023-24 payable during the current financial year 2024-25 to PAAVAI ENGINEERING COLLEGE.

Sir,
With reference to the approval of the Council, this is to convey the sanction for payment of Rs. 100000/- (Rupees One Lakh only) as Grant-in-Aid under the Grant Support to Innovations, MIC Scheme for Innovation title "FABRICATION OF ADJUSTABLE DRUM SEEDER" as per details given below: -

1.	Name and address of the Beneficiary Institution/ Institute / Incubation Unit	PAAVAI ENGINEERING COLLEGE, NH-44, Pachal, Namakkal Tamilnadu, PIN 637018
2.	Name of the Team Leader:	K. Ajay
3.	Duration of the scheme:	FY 2024-25
4.	Total Grant-in-aid Sanctioned:	Rs. 200000/-
5.	1st Phase Amount (50% of Grant-in-Aid) to be released during the financial year 2024-25:	Rs. 100000/-
6.	Sanctioned grant-in-aid is debitable to:	603.2 (a) General (MIC)
7.	The authorized officer in whose favour Cheque/ Demand Draft/ RTGS is to be made	The Principal, Paavai Engineering College

1. The amount of the Grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical Education on the Grant-in-Aid bill and shall be disbursed to and credited to the account of Director/Principal through RTGS/PFMS.
2. This Grant-in-Aid is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.

The instructions/guidelines to be followed by University/Institution/Incubation Unit

I. **Release of funds**
   a. The Director/Principal is hereby requested to verify the correctness of the under mentioned bank account/ RTGS details submitted by them along with the proposal, in which the grant is being released:

Institute/ Incubation PAN No.	Bank Name	Bank Branch Name	Bank Branch Address	Account Holder Name	Account Type	Account Number	IFSC Code
AAATP6024D	Union Bank of India	Namakkal	No.2, Paramathi Road, P.Bo. No-11, Namakkal Tamilnadu, 637002	The Principal, Paavai Engineering College	Savings	520101069986548	UBIN0902021

The Project "Fabrication of Adjustable Drum Seeder" has been sanctioned of Rs.2,00,000 from AICTE

Five Days Nurture program supported by Technology Innovation Hub of IIT Delhi on the topic 'Skill Development and Entrepreneurship Training Program'
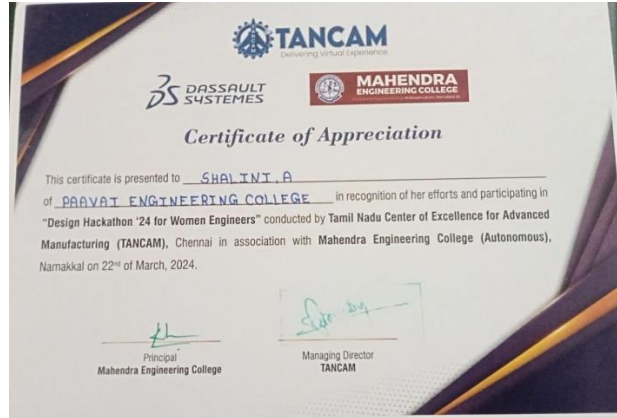
"Design Hackathon'24 for Women Engineers" conducted by Tamil Nadu Center for Excellence for Advanced Manufacturing (TANCAM)

Online bridge course on "Introduction to 3D Printing & CAD Modelling"

Best Practices-II

OUTREACH PROGRAMMES FOR RURAL COMMUNITY DEVELOPMENT

2.1. Title of the Practice

Outreach programmes for rural community development by adopting nearby five villages, which promotes the societal responsibility of the students to evolve as a best human being.

2.2. Objectives of the Practice

- ➤ The primary focus of the institution is to transform the students into an accountable person in the
- ➤ To build rural community with sustainable
- ➤ To work with the people of rural India in identifying development challenges and evolving appropriate solutions for accelerating sustainable
- ➤ To promote the rural areas through various activities such as seminar, awareness camp, rally ,
- ➤ To mobilize and decentralized the local resources
- ➤ To understand themselves in relation to their
- ➤ To develop among themselves a sense of social and civic
- ➤ To develop competence required for group-living and sharing of
- ➤ To Gain skills in mobilizing community
- ➤ To acquire leadership qualities and democratic
- ➤ To develop capacity to meet emergencies and national
- ➤ To practice national integration and social harmony.

The underlying principle of this practice is

- To promote rural community in terms of improving their awareness in health, sanitation, livelihood and education.
- To identify the needs of the rural community and supporting them by providing various activities to develop the community.
- To make students to understand the rights and duties of the citizen and to emerge as a socially responsible citizen.

2.3. The Context

The college takes pride in its rich tradition of promoting a culture of service to both the local and national communities. Students are encouraged to actively participate in outreach initiatives that foster a sense of responsibility and compassion for humanity. These activities, coordinated through the college's National Service Scheme (NSS), are designed to nurture the holistic development of students. By engaging with the community, students develop empathy and gain valuable insights into social living. The college seamlessly integrates academic growth with outreach programs, recognizing their vital role in shaping the attitudes and character of students. Through these experiences, students acquire the skills and values necessary to achieve their personal and professional goals.

2.4. The Practice

The adoption of five villages—Natamangalam, Semmampatti, Thathayangarpatti, Erukkapalayam, and Puliampatti—aims to instill the value of "Service to mankind is service to God" in students. This initiative encourages students to become proactive members of society by identifying and solving problems within their communities. Since its inception, Paavai Engineering College has been conducting outreach activities under the National Service Scheme (NSS). The NSS team comprises a faculty head serving as the Programme Officer, supported by student office bearers, including the President, Vice-President, and Secretary, along with 100 dedicated volunteers. The core philosophy of the NSS program lies in fostering collaboration between students and faculty in community service, creating a shared sense of responsibility toward nation-building. Since 2015, the NSS has organized two types of activities: regular events and special camp programs.

Regular activities of National Service Scheme of the college: The College has adopted five villages, extending services to uplift the underprivileged through initiatives such as promoting education, repairing schools, conducting household and village surveys, organizing health and hygiene awareness camps, raising road safety awareness, and undertaking cleaning activities in villages and temples. The household surveys aim to assess water, electricity, and gas facilities in individual homes, while village surveys evaluate transport and road infrastructure. Reports of these findings have been submitted to the district collectorate for necessary action.

Additionally, NSS activities encompass a wide range of community-focused efforts, including functional literacy and non-formal education, tree plantation, participation in Republic Day parades, maintenance of trees, road construction and repair, school wall painting, cleaning of village ponds and wells, health education, primary health care, first aid training, blood donation drives, AIDS awareness programs, promotion of advanced agricultural practices, disaster management (cyclones and floods), women empowerment initiatives, road safety campaigns, afforestation, plastic eradication, and observance of days of national significance.

Special camp activities of the college: The special camp activities are organized annually and encompass a variety of initiatives, including free medical camps, sessions on cyber-crime and security, programs promoting women empowerment, awareness rallies on plastic disposal, eye check-up camps, health awareness drives, Swachh Bharat Mission (Clean India Mission) activities, campaigns on traffic rule adherence, organic farming awareness rallies, and Yoga and natural medicine workshops, among others. These activities are systematically planned and executed as part of social responsibility efforts aimed at societal improvement.

This practice is distinctive as it provides students with a comprehensive educational experience through participatory and experiential learning methods.

2.5. Evidence of Success

The rural community has greatly benefited from these initiatives. The villagers have shown enthusiasm and support, allowing the college to organize numerous programs in their locality. These activities have also helped students enhance their holistic development. As a result of their dedicated efforts, the students and the NSS programme officer have received numerous awards, recognition, and appreciation.

- **Anna University Level Award**: Received the NSS Best Volunteer Award for an impressive streak of consecutive years from 2015 to 2024.
- **Best Blood Donation Camp Organizer Appreciation Award**: Awarded to our NSS Programme Officer for the Best Blood Donation Camp Organizer Appreciation Award (2022-23).

- **Republic Day Parade Participation**: Our students have consistently represented the institution in the Republic Day Parade in New Delhi during the years 2017, 2018, 2020, 2022, 2023, and 2024.

- **State Republic Day Parade**: Two students participated in the State Republic Day Parade in 2024.

- **National Adventure Camp**: Five NSS volunteers actively took part in the National Adventure Camp 2023, organized by Humari Udan Seva Sasthan from October 1 to October 5, 2023, in Sirohi, Rajasthan. They enthusiastically engaged in various adventure activities during the camp.

- **National Voters Day Celebration**: On January 25, 2024, NSS Programme Officer C. Rathnakumar received the **Best Performing Nodal Officer Award**, while R. Gokul, a third-year B.E. (Cyber Security) student, was recognized as the **Best Performing Campus Ambassador for 2024**. Both received accolades from Thiru. Satyabrata Sahoo, I.A.S., Chief Electoral Officer (CEO) and Principal Secretary to the Tamil Nadu Government. The event, presided over by the Honorable Governor of Tamil Nadu Thiru R.N. Ravi, was held at Kalaivanar Arangam, Chennai.

2.6. Problems Encountered and Resources Required

There are not major issues, sometimes there is a hesitation from the village people to co-operate with the NSS team. Sometimes students have conventional idea about blood donation and health related matters.

Evidence of Success

Ms.S.Sugirtha, B.E. (Agricultural Engineering) received the best NSS Volunteer Award (2022-23) from Thiru. Suresh Sambandam, CEO and Founder of Kissflow Inc., Chennai

BEST NSS VOLUNTEER AWARD (2022-23) AT ANNA UNIVERSITY LEVEL
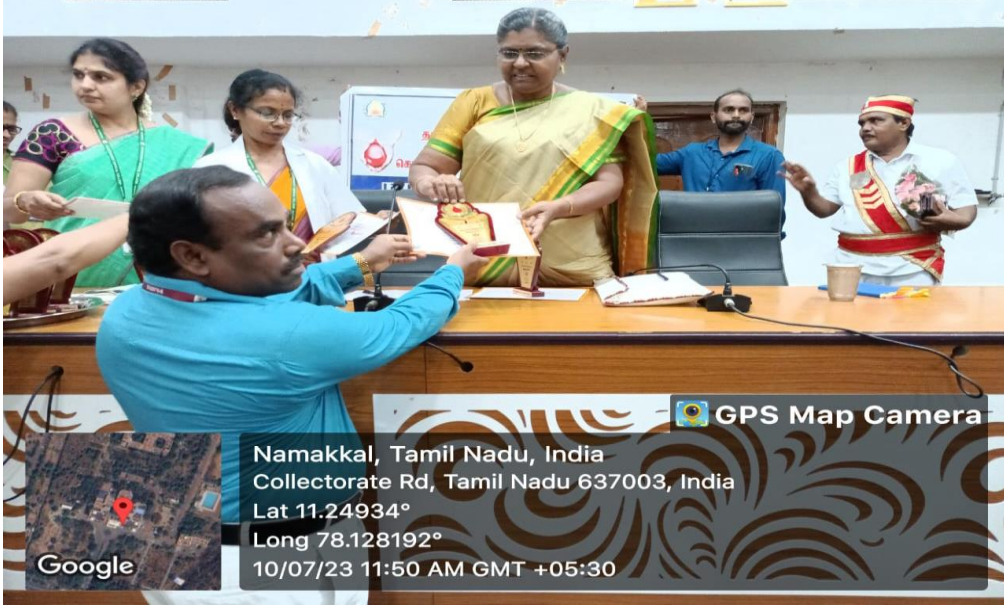
Mr.C.Rathnakuar, NSS Programme Officer, Paavai Engineering College, receiving the Best Blood Donation Camp Organizer Award for the year 2022-23 from Dr.S.Uma, IAS, Collector, Namakkal.

Best Blood Donation Camp Organizer Appreciation Award (2022-23)

Activity Name: Republic Day Parade Camp-2024 in New Delhi   Date: 01.01.24 to 26.01.24

Paavai Engineering College NSS volunteer Ms.A.U.Lekha Shree, Second Year, B.Tech.(Pharma) was the proud NSS participant who actively participated in the Republic Day Parade Camp 2024, New Delhi from 01 January 2024 to 31 January 2024.

As an avid NSS volunteer she performed very well and got selected from the South Zone Level (South India Level) South Zone Level PRE - RD Selection 2023 held at Cauvery College for Women (Autonomous), Thiruchirappalli from 30th October to 9th November, 2023. She was selected by Anna University Pre-RD Camp (Anna University Level) held on 29.09.2023 at MIT Campus, Anna University, Chennai.

Thirteen NSS volunteers from Tamil Nadu were selected and they had undergone training in New Delhi. The volunteers were imparted training in leadership development apart from organizing various socio-cultural programmes. All the volunteers, after a month long stay together in the camp, got the prestigious opportunity to be part of the Republic Day Parade on 26 January 2024.

The volunteers also got a chance to interact with many eminent personalities namely Honorable President Ms.Droupadi Murmu, Honorable Prime Minister Mr.Narendra Modi, and Mr Anurag Sing Thakur, Minister of Youth Affairs and Sports.

NSS Troop participating in Republic Day Parade 26.01.2024

Group photo with our Honorable President Smt. Droupadi Murmu

Group photo with our Honorable Prime Minister Shri Narendra Modi

Group photo with our Honorable Governor of Tamil Nadu Thiru.R.N.Ravi

Group Photo with Thiru. Udhayanidhi Stalin, Minister of Youth Welfare and Sports Development, Tamil Nadu

Paavai Engineering College NSS volunteer Ms.A.U.Lekha Shree, Second Year, B.Tech.(Pharma) participated in the RD Parade -2024

Activity Name: Tamil Nadu State Republic Day Parade Camp-2024 at Chennai

Date: 16.01.24 to 26.01.24

Paavai Engineering College NSS Volunteer S.Sivasubra Manikandan, II year B.E. (ECE) and Ms.S.Swetha, II year B.Tech.(Agriculture) actively participated in the Tamil Nadu State Republic Day Parade-2024 at Chennai from 16.01.2024.to 26.01.2024.

He actively participated and performed very well in the selection of Anna University volunteers State Republic Parade held at Anna University Regional Campus, Trichy on 30.12.2023.

NSS Troop Tamil Nadu State Republic Day Parade (26.01.2024)

Group photo with Dr.Senthilkumar, State NSS Officer, Tamil Nadu
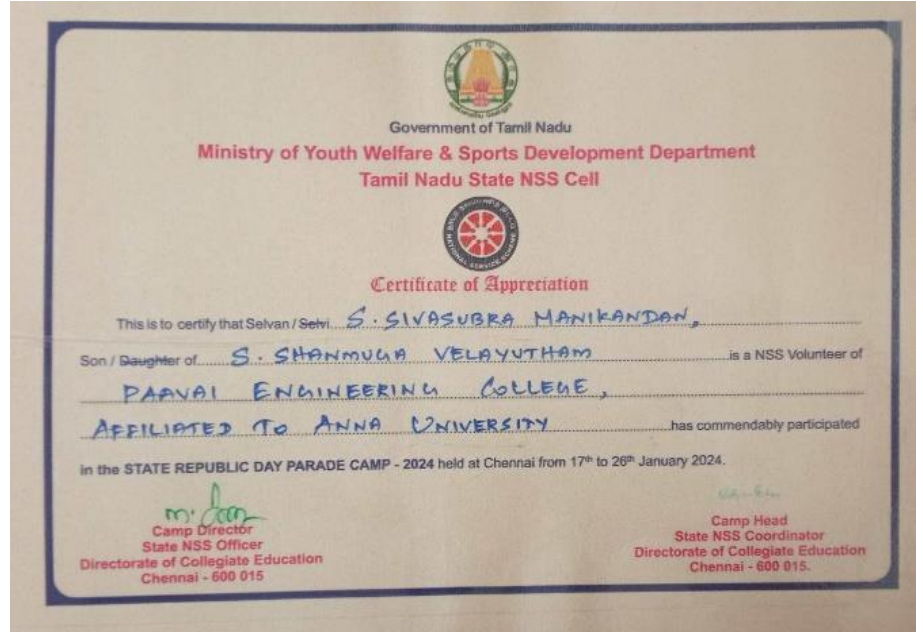
Paavai Engineering College NSS Volunteer S.Sivasubra Manikandan, II year B.E. (ECE) and Ms.S.Swetha, II year B.Tech.(Agriculture) participated in the Tamil Nadu State Republic Day Parade

Activity Name: National Adventure Camp-2023, Rajasthan   Date: 01.10.23 to 05.10.23

Paavai Engineering College 5 NSS volunteers actively participated in National Adventure Camp-2023 organized by Humari Udan Seva Sasthan held from 01.10.2023 to 05.10.2023 at Sirohi, Rajasthan. They actively participated in various adventure activities in this National Adventure Camp.

NATIONAL YOUTH ADVENTURE CAMP 2023

Certificate of Participation

This is certify that Ms/Mr./Dr. M. Senthomil Selvan

Son/Daughter of Mr. A. Moorthy

Organization/Institute of Paavai Engineering College, Namakkal

has participated in **National Youth Adventure Camp** at

Mali Samaj Seva Sansthan, Village: Manpur, Abu Road

from 1st October to 5th October, 2023

Charanjeet Singh Chahel
District Organising
Commissioner (s)
Ferozepur, Punjab

Ajay Singh Rajpurohit
Chairman
Humari Udan Apno Ke Liye
Pali, Rajasthan

NATIONAL YOUTH ADVENTURE CAMP 2023

Certificate of Participation

This is certify that Ms/Mr./Dr. _R. Gokul_

Son/Daughter of Mr. _Ravichandran_

Organization/Institute of _Paavai Engineering college_

has participated in **National Youth Adventure Camp** at

Mali Samaj Seva Sansthan, Village: Manpur, Abu Road

from 1st October to 5th October, 2023

Charanjeet Singh Chahel
District Organising
Commissioner (s)
Ferozepur, Punjab

Ajay Singh Rajpurohit
Chairman
Humari Udan Apno Ke Liye
Pali, Rajasthan

National Voters Day – Best Performing Nodal Officer and Campus Ambassador Award

On National Voters Day Celebration 25.01.2024 Paavai Engineering College, Namakkal NSS Programme Officer C.Rathnakumar received Best Performing Nodal Officer and R.Gokul III B.E.(Cyber Security) received Best Performing Campus Ambassador-2024 award and appreciation for Namakkal District from Thiru. Satyabrata Sahoo, I.A.S., Chief Electoral Officer (CEO) and Principal Secretary to Tamilnadu Government. This function was presided over by the Honorable Governor of Tamil Nadu Thiru.R.N.Ravi on 25.01.2024 at Kalaivaanar Arangam, Chennai.

C.Rathnakumar, NSS Programme Officer, Paavai Engineering College receiving the Best Performing Nodal Officer award from Thiru. Satyabrata Sahoo, I.A.S., Chief Electoral Officer

This function presided over by the Honorable Governor of Tamil Nadu Thiru.R.N.Ravi

National Voters Day – Best Performing Nodal Officer Award

National Voters Day – Best Performing Campus Ambassador Award

ELECTION COMMISSION OF INDIA

SYSTEMATIC VOTERS' EDUCATION AND ELECTORAL PARTICIPATION (SVEEP)

CERTIFICATE OF APPRECIATION

AWARDED TO

R. GOKUL ....Campus Ambassador / ~~Nodal Officer~~ of

Paavai Engineering College, pachal ....from ---Namakkal--district

for successfully involving in the Electoral process and for their active participation in the enrolment of

New eligible electors, felicitated in the State Level National Voters' Day function held at

Kalaivanar Arangam, Chennai on 25.01.2024.

25·01·2024
Date

Chief Electoral Officer, Tamil Nadu