



ANNUAL PROGRESS REPORT FOR SDG 3 – 2024



17.3.3. University publishes progress against SDG 3

St. Peter's Institute of Higher Education and Research (SPIHER) is committed to promoting Sustainable Development Goal 3 (SDG 3): Good Health and Well-Being, which aims to ensure healthy lives and promote well-being for all at all ages. At SPIHER, we recognize the critical link between health and overall development. Our initiatives focus on improving access to healthcare, promoting health education, and addressing the social determinants of health to create healthier communities.

SPIHER emphasizes the importance of health education as a tool for improving community well-being. Through various outreach programs, the university conducts health awareness campaigns, regular health camps, blood donation drives, and mental health awareness programs for students and staff. It also targets local communities, especially in rural and underserved areas. These campaigns focus on raising awareness about key health issues such as hygiene, preventive care, mental health, and chronic diseases like diabetes, hypertension, and tuberculosis. SPIHER's curriculum and outreach initiatives emphasize physical fitness, nutrition, and emotional wellness. The institution collaborates with healthcare professionals to provide medical check-ups and counselling services. Additionally, SPIHER's sports and yoga programs encourage holistic well-being. Through these sustained efforts, SPIHER fosters a culture of good health, ensuring the physical and mental wellness of its community.

One Health Approach for Sharing the Planet and Resources with Animals

Event Name: "One Health Approach for Sharing the Planet and Resources with Animals"

Organized by: Department of Biochemistry

Date: 03.10.2024

Time: 10.00 am

Mode: offline

Number of Students Participated: 56

Coordinator: Dr. R. Nithya – HOD/Biochemistry

The Department of Biochemistry is proud to present a special programme on “**One Health Approach for Sharing the Planet and Resources with Animals**”, highlighting the deep interconnectedness between human health, animal well-being and environmental sustainability. This event aims to create awareness on how collaborative, multisectoral, and transdisciplinary strategies can safeguard health for all species while ensuring the responsible use of shared natural resources

DEPARTMENT OF BIOCHEMISTRY

Organizes
Guest Lecture On



ONE HEALTH APPROACH FOR SHARING THE PLANET AND RESOURCES WITH ANIMALS

Date: 3rd October 2024

Time: 10.00am

Venue: Mechanical Block Seminar Hall

RESOURCE PERSON



DR RAMAN MUTHUSAMY

BVSc., MVSc, Ph.D., Post Doc (UK)
Research Professor of Microbiology
Cluster Head -One health &
AMR Center for Global Health Research
Saveetha Medical College & Hospitals
Saveetha Institute of Medical & Technical Sciences
(SIMATS)
Chennai-602 105

CONVENOR

DR. R. NITHYA
Assistant Professor
Department of Biochemistry

ADVISOR

MAJ DR. M VENKATARAMAN
Dean- FASCMH, SPIHER

ORGANIZING SECRETARY

DR. P. VIJAYA
Associate Professor
Department of Biochemistry

CO-ORDINATOR

MR. K. KARTHICK
Assistant Professor
Department of Biochemistry

**One Health Approach: Sharing our planet and resources responsibly organized by the
Department of Biochemistry on 03.10.2024.**

Program Title	Guest Lecture on "One Health Approach for Sharing the Planet and Resources with Animals"
Organized by	Department of Biochemistry
Date and Time	03.10.2024 at 10.00 am
Mode	Offline Mode
Convenor	Dr. R. Nithya - HOD/Biochemistry
Organizing secretary	Dr. P. Vijaya Asso / Prof
Co-ordinators	Mr. K. Karthick Asst / Prof
Resource Person	Dr. Raman Muthusamy, BVSc.,MVSc, Ph.D., Post Doc (UK) Research Professor of Microbiology, Cluster Head -One health & AMR, Center for Global Health Research, Saveetha Medical College & Hospitals, Saveetha Institute of Medical & Technical Sciences (SIMATS) Chennai-602 105.
Key Points Discussed	Importance of food fortification for pets and their importance. Importance of nutrition for pets. Importance of taking care of pet animals and its health.
No. of Participants	56



Felicitating the Chief Guest, Dr. Raman Muthusamy, Research Professor of Microbiology Cluster Head - One health & AMR, Center for Global Health Research, SIMATS



Chief Guest interacting with students



Group photo of the Chief Guest with the participants

2. Sreevani M, Latha R. Classification of Breast Medical Images to Diagnose Cancer Using Triplet Attention Model. In 2024 15th International Conference on Computing Communication and Networking Technologies (ICCCNT) 2024 Jun 24 (pp. 1-8). IEEE.

Classification of Breast Medical Images to Diagnose Cancer Using Triplet Attention Model

Abstract:
 The early and remote identification of chronic diseases is now achievable for the first time. In this study, mammography images from the Cancer Imaging Archive (TCIA) were used to build a deep transfer learning (DTL) model for an autonomous breast cancer diagnostic system. The enhanced medical treatment supplied by the smart healthcare system can benefit modern e-healthcare. Accurate diagnosis based on breast CT (angi-based medical images are required for early detection and effective treatment of breast cancer. However, noise in breast images can significantly reduce the precision of the diagnostic process. In this paper, we propose a new Triplet Attention Model (TAM) to improve the accuracy of breast cancer diagnosis from noisy medical images. The TAM uses attention mechanisms and triplet loss to learn distinguishing features from noisy images. The triplet loss ensures that related images are closer together in the learned feature space, and the attention mechanism assists the model in focusing on those areas. As a result, categorization accuracy improves. Extensive tests are run on a large and diverse dataset of noisy breast medical images, and the results are compared to state-of-the-art approaches. As demonstrated in our trials, our proposed Triplet Attention Model surpasses earlier techniques in a number of significant ways, including its capacity to accurately classify noisy breast medical images for cancer diagnosis.

Published in: 2024 15th International Conference on Computing Communication and Networking Technologies (ICCCNT)

Date of Conference: 24-28 June 2024 **DOI:** 10.1109/ICCCNT51601.2024.10724809

Date Added to IEEE Xplore: 04 November 2024 **Publisher:** IEEE

*** ISSN Information:** **Conference Location:** Karamal, India

1. Introduction
 Breast cancer is one of the most frequent and lethal cancers affecting women today. Early detection and diagnosis of breast cancer result in the highest patient survival and treatment success rates. Mammography and other medical imaging technologies have showed considerable potential in the early diagnosis of breast cancer [1]-[5]. However, the noise and other imaging faults in full-field breast mammography images can lead to misdiagnosis, overlooking the signs of cancer, and other complications. The noise is caused by many factors, including motion artifacts, quantum mottle, and beam hardening artifacts. The noise in mammography images can significantly reduce the accuracy of cancer diagnosis.

Authors:
M. Sreevani
 Department of Computer Science and Applications, St. Peter's Institute of Higher Education and Research, Chennai

R. Latha
 Department of Computer Science and Applications, St. Peter's Institute of Higher Education and Research, Chennai

Research publication by Sreevani M. and Latha R., presented at the 2024 15th International Conference on Computing Communication and Networking Technologies (ICCCNT)

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**Department of Economics &
Department of Computer Science and Applications**
in collaboration with
Centre for Personal Counselling
Invites all the Staff Members for the Transformative Experience

**Restorative Pathways:
Ho'oponopono Meditation for Inner Peace**

FACILITATOR
Dr. S. Akila
Asst. Prof - Department of CSA

📅 20th July 2024 ⌚ 10.30 am to 12.15 pm
📍 Seminar Hall, Main Block

ADVISOR
Maj. Dr. M. Venkatramanan
Dean - FASCMH, SPIHER

CONVENOR
Prof. K. Sivasubramanian
HoD - Department of Economics

COORDINATOR
Mrs. D. Blessy Angelina
Asst. Prof - Department of English

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Ho'oponopono Meditation Session organized by the Departments of Economics and Computer Science & Applications in collaboration with the Centre for Personal Counselling at SPIHER on 20th July 2024, facilitated by Dr. S. Akila, offering staff members a restorative pathway to inner peace and emotional wellbeing.



Department of Mechanical Engineering

Organizes

STAFF DEVELOPMENT PROGRAMME

on

EMPOWER 360: KNOWLEDGE FOR WELLBEING

05.03.2024 – 07.03.2024

@Main Block Seminar Hall

Day / Time	Session Title	Resource Person
Day 1 05.03.2024 10.40 am to 12.00 pm	Health Issues & First Aid (Natural Therapy)	Dr. K. Kantharaj Professor, Biomedical Engg SPJEC, Chennai.
Day 2 06.03.2024 10.00 am to 11.00 am	Emotional Wellness: Work & Life Balance	Ms. R. Jayalakshmi Authorized Person, Healing Instructor Life Science Coarth, Chennai.
11.00 am to 12.00 pm	Small Savings & Smart Investment	Dr. S. Subramanian Professor, Dept. of Commerce SPJEC, Chennai.
Day 3 07.03.2024 10.00 am to 11.00 am	Next Generation Educational Upliftment	Mr. V. Jawahar Business Division Manager Animal Studies, Nuzvidobakam Chennai.
11.00 am to 12.00 pm	Exploring Government Welfare Schemes	Mr. Chidabaramnathan Manager, Education Loan HDFC, Chidambaram, Chennai.

Convener

Dr. N. Rajeswari
Professor and Head

Coordinators

Dr. P. Periyasamy, Prof.
Mrs. K. Sunitha, Asst. Prof.

Department of Mechanical Engineering

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Staff Development Program organized by the Department of Mechanical Engineering on 05.03.2024 to 07.03.2024 to enhance faculty skills and academic excellence.

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INSTITUTION'S INNOVATION COUNCIL
Member of Innovation Council

A+
NAAC

DEPARTMENT OF BIOMEDICAL ENGINEERING

Organizes

5 DAYS ONLINE FACULTY DEVELOPMENT PROGRAMME

on

RECENT TRENDS IN BIOMEDICAL APPLICATIONS USING AI

📅 29 Jan to 2 Feb 2024 ⌚ 6.30 PM to 7.30 PM

<div style="margin-bottom: 10px;"> <p style="font-size: 0.8em; margin: 0;"> 29/01/2024 <small>Topic: Application of Deep learning in Respiratory abnormalization study</small> Dr. Muthulakshmi M <small>Asst Prof. (senior grade)</small> <small>Amrita School of Engineering, Chennai.</small> </p> </div> <div style="margin-bottom: 10px;"> <p style="font-size: 0.8em; margin: 0;"> 31/01/2024 <small>Topic: IoT in Medical devices</small> Dr. E. N. Ganesan <small>Director Research</small> <small>Spiher, Andol.</small> </p> </div> <div> <p style="font-size: 0.8em; margin: 0;"> 02/02/2024 <small>Topic: Wearable Technology in Healthcare Applications.</small> Dr. Rohini P <small>Asst Prof, IITM.</small> <small>Manipal Academy</small> </p> </div>	<div style="margin-bottom: 10px;"> <p style="font-size: 0.8em; margin: 0;"> 30/01/2024 <small>Topic: Machine learning for Medical Image Analysis</small> Dr. M. Latha <small>Associate Professor,</small> <small>Rajalakshmi Engineering College,</small> <small>Chennai.</small> </p> </div> <div> <p style="font-size: 0.8em; margin: 0;"> 01/02/2024 <small>Topic: Applications of AI in Healthcare</small> Dr. K. Venkatraman <small>Managing Director,</small> <small>Technocon Solution Medical Systems.</small> </p> </div>
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Registration fee: Rs.100

Account name: SPIHER
 Ac.no 488357524
 Ifsc code: IDIB000S182
 For queries contact - Convener
Dr. Bobby ND, Prof and HoD, Dept of BME
9500690763

Registration link:
<https://forms.gle/yQjycgcVrnSmcy59A>

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Recent Trends in Biomedical Applications Using AI – A technical event organized by the Department of Biomedical Engineering on 28.01.2024 to 02.02.2024.





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Department of Computer Applications
 organize
One Week Online Faculty Development Programme
 on
Perspective Views in Artificial Intelligence
 From 21.04.2025 to 25.04.2025, 02.00pm – 3.30pm
 Online mode – Google meet

<p>Advisor</p> <p>Dr.M. Venkatramanan Dean(FASCMH), SPIHER</p> <p>Convener</p> <p>Dr.R.Latha Professor & Head</p> <p>Coordinators</p> <p>Dr.R.Subhashni Mr.N .Jagadeesh Associate Professor Assistant Professor</p> <p>Ms. R. Vasanthi Assistant Professor Department of Computer Applications</p>	<p>For Registration</p>  <p>Registration Link : https://rb.gy/dhqlu7</p> <ul style="list-style-type: none"> ● Registration Fees : 200/- ● E- certificates will be provided to all participants attended all the sessions.
Speakers and Topic	
<p><small>Date : 21-04-25</small></p>  <p>Dr.R.Latha Professor & Head Department of Computer Applications Topic : AI Tools</p>	<p><small>Date : 22-04-25</small></p>  <p>Dr.B.Shanthini Professor & Head Department of Computer Science Engineering Topic : AI in Healthcare</p>
<p><small>Date : 23-04-25</small></p>  <p>Dr.R.Subhashni Associate Professor Department of Computer Applications Topic : AI in other Networking Technologies</p>	<p><small>Date : 24-04-25</small></p>  <p>Dr.D.Kavitha Associate Professor Department of Computer Applications Topic : Research and Development Using AI Tools</p>
<p><small>Date : 25-04-25</small></p>  <p>Dr.S.Tamilarasi Professor & Head Department of Information Technology Topic : AI in Cybersecurity: Protecting Data in the Age of Automation</p>	<p><small>Date : 25-04-25</small></p>  <p>Dr.S.Brindha Associate Professor & Head Department of Computer Science Topic : Ethical AI in Healthcare: Balancing Innovation with Responsibility</p>
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**One-Week Online Faculty Development Program on “Perspective Views in AI”
 organized by the Department of Computer Applications.**

Women Empowerment Cell

In Association with NSS and IQAC

Cordially invite you all for the

Awareness Campaign for Eliminating Gender Based Violence



2.00 p.m. to 03.00 p.m.



02.12.2024



Awareness programme on Cyber Security for Women
Dr. S. Brinda
 Associate Professor & Head
 Department of CISA, SPHER

03.12.2024



Awareness Programme on "Importance of Girl Child Education"
Dr. A. Bright Rathnam
 Principal
 Vallankanni (Matriculation Higher Secondary School, Avodi, Chennai)

04.12.2024



Awareness Program on Gender Equality
Dr. V. Saravanan
 Professor & Head
 Department of Management Studies
 SPHER

05.12.2024



Workshop on Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013
Dr. Sayeeda Sultana
 Professor & Head, Department of Chemistry
 SPHER (CO - Convenor)

06.12.2024



Upholding Dignity of Women and Girls
Dr. S. Pushpa
 Professor
 Department of CSE 6th Year HOD (Engg)
 SPHER

08.12.2024



Awareness Programme on "Health Issues of adolescent Girls"
Dr. K. Kantharaj
 Advisor
 Department of BME, SPHER

10.12.2024



Awareness Rally
Dr. P. Periyasamy
 Professor
 Department of Mechanical Engg, SPHER
 NSS Coordinator

CONVENOR

Dr. Sayeeda Sultana
 HOD, Department of Chemistry

CO-ORDINATOR

Dr. P. Periyasamy
 Professor, Department of Mechanical Engg

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Awareness Campaign on Eliminating Gender-Based Violence organized by the Women Empowerment Cell.



Women Empowerment Cell leads a powerful Awareness Campaign to end Gender-Based Violence, inspiring courage, equality, and a safer future for every woman.

St. Peter's Institute of Higher Education and Research
 Internal Quality Assurance Cell (IQAC)
 & Department of Computer Science and Applications organizes

"HOLISTIC WOMEN'S HYGIENE" BY WOMEN CAMPUS KONNECT

30th July 2024 @ 11.30 am
 Mechanical Block Seminar Hall, SPIHER

RESOURCE PERSON
R. Sharmila
 Soft skill Trainer, Life Coach, Career Guidance coach, PDSH Facilitator

CONVENORS
 Dr. R. Rani Hemamalini (Director, IQAC) | Dr. R. Latha (Professor & Head, C.S.A, SPIHER)

ADVISOR
 Maj. Dr. M. Venkatramanan (Deputy F.A.C.M)

COORDINATORS
 Dr. D. Kavitha (Associate Professor, C.S.A, SPIHER) | Mrs. R. Vijayalakshmi (Associate Professor, C.S.A, SPIHER)

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St. Peter's Institute of Higher Education and Research
 Chennai, Tamil Nadu, India

Sl. No.	Name	Roll No.	Year
1	Vignesh	2024	II
2	S. V. Lakshmi	2024	II
3	G. Sankarapriya	2024	II
4	S. Saksham	2024	II
5	A. Saranya	2024	II
6	K. Anshulami	2024	II
7	S. Manjula	2024	II
8	S. P. Lakshmi	2024	II
9	S. Jyothi	2024	II
10	V. Jyothi	2024	II
11	R. Anshu	2024	II
12	S. Anshu	2024	II
13	V. Anshu	2024	II
14	N. Anshu	2024	II
15	T. Anshu	2024	II
16	V. Anshu	2024	II
17	A. Anshu	2024	II
18	C. Anshu	2024	II
19	H. Anshu	2024	II
20	V. Anshu	2024	II
21	H. Anshu	2024	II
22	H. Anshu	2024	II
23	S. Anshu	2024	II
24	T. Anshu	2024	II
25	S. Anshu	2024	II
26	V. Anshu	2024	II
27	V. Anshu	2024	II

SPIHER Conducted the Holistic Women's Hygiene by Women Campus Konnect on 30th July 2024

ST.PETER'S SCHOOL OF ARCHITECTURE
 In association with
National Service Scheme (NSS)
 Organizes
Comprehensive Dental Screening Camp
 By Dentists from **Saveetha Dental College**



7th November 2024
 10.30 am to 12.30 pm

Mechanical block Seminar hall

Convenor
Prof. Vasudevan T J
 Director - SPSOA

Faculty Co-Ordinator
S. Arun Deepak
 Assistant Professor - SPSOA

Co-Ordinators
Dr. P. Periyasamy, NSS Co-Ordinator
Mrs. R. Nirmala, NSS Event Co-Ordinator

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A Comprehensive Dental Screening Camp was organized with the support of skilled dentists from Saveetha Dental College organized by School of Architecture on 07.11.2024



Promoting Healthy Smiles: A Comprehensive Dental Screening Camp was organized with the support of skilled dentists from Saveetha Dental College, encouraging early detection, awareness, and lifelong oral wellness.

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DEPARTMENT OF MICROBIOLOGY
 In association with
National Service Scheme Unit – SPIHER
 Organizes

Students Drawing Competition and Awareness Rally on

Enhancing Environmental Awareness on the Impact of Plastic Pollution




September 30th, 2024 09.30 am EEE Block, Smart Room: 258

ADVISOR
 Maj. Dr. M. Venkatramanan
 Dean-FASCMH

ORGANIZING SECRETARY
 Dr. S. Ganesh Kumar
 Associate Professor & Head
 Department of Microbiology

CONVENOR
 Dr. P. Periyasamy
 NSS Coordinator

CO-ORDINATORS
 Mrs. R. Vijayalakshmi
 NSS Event Coordinator
 Dr. D. Gideon Moses
 Assistant Professor
 Department of Microbiology

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“Building a Greener Tomorrow — An environmental awareness initiative by the Department of Microbiology held on 30.09.2024, stressing the importance of combating plastic pollution to safeguard our natural ecosystems.”.





NATIONAL SERVICE SCHEME (NSS)

Organized



3
SERENITY
SESSIONS

NASHA MUKT BHARAT ABHIYAN



4
SERENITY
SESSIONS

Serenity Sessions: Exploring Yoga and Meditation



04.09.2024



10.00AM



Yoga & Meditation Centre, SPIHER

Guest



Mr. L. Saravanan
 DME, MSc
 THE art of living Teacher
 Sky Yoga Professor

Coordinators

Dr.P.Periyasamy
 NSS Coordinator
 SPIHER

Dr.S.Akila
 Asst. Prof. CSA
 SPIHER

Mrs. R. Vijayalakshmi
 NSS Event Coordinator
 SPIHER



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[@spiher.ac.in](https://www.instagram.com/spiher.ac.in)

“Serenity Session on Yoga and Meditation organized by the NSS Unit on 04.09.2024, inspiring participants to embrace balance, mindfulness, and emotional harmony.”.

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DEPARTMENT OF POLITICAL SCIENCE
 In association with
National Service Scheme Unit - SPIHER
 Organizes

NASHA MUKT BHARAT ABHIYAN
 Mass Anti-Drug Awareness Programme

28th August 2024 | 9.00 am | **Mechanical Block Seminar Hall**

Chief Guest	Advisor
Dr.N.Malmurugan Vice Chancellor	Maj. Dr. M. Venkatramanan Dean-FASCMH
Coordinators	
Dr. N. Ranjani HoD/Political Science	Dr. P. Periyasamy NSS Coordinator
	Mrs. R. Vijayalakshmi NSS Event Coordinator

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***Towards a Drug-Free Future* — A Nasha Mukth Bharath Abhiyan awareness session organized by NSS and Political Science on 28.08.2024, encouraging students to choose a healthy and drug-free lifestyle.**

DEPARTMENT OF BIOMEDICAL ENGINEERING
 Inaugurates Biomedical Engineering club

HUMANOID HUB



2023-2024

18th march 2024 | 11.00am to 12.30pm

Guest lecture



Topic - Toxins a novel Therapeutic tool for diseases caused due to Chanellopathies
Dr. B. A. Gowrishanker
 Professor and Head
 Department of Biotechnology, SPCT, Avadi, Chennai

Dr. L. Mahesh Kumar
 Registrar

Dr. Subbiah Bharathi
 Director, SPIHER

Dr. E. N. Ganesh
 Director(R&D)

Dr. Bobby N.D
 HOD-BME

FACULTY CO-ORDINATORS

STUDENT CO-ORDINATORS

Fazliath .M **Satish Kumar .P**
 Asst Prof/BME Asst Prof/BME

Mythroyee .D **Aleen Joseph .K**
 II year/BME II year/BME
 President of the Club Secretary of the club

The Humanoid Club was inaugurated on 18.03.2024 with an insightful lecture by Dr. B.A. Gowri Shankar on “Toxins: A Novel Therapeutic Tool for Diseases Caused by Channelopathies,” offering students a deeper understanding of innovative therapeutic strategies.



Insightful learning through an inspiring guest lecture session.

Organized By
DEPARTMENT OF BIOCHEMISTRY
In Association with NSS

Cordially invite you all to the

Awareness program on
WORLD CANCER DAY

05th
FEBRUARY
2024

10.00 AM
 SPIHER Campus

Resource Person
Dr. A. Mohanprasanth
Research Associate,
Department of Pharmacology,
Saveetha Dental College & Hospitals, Chennai

CONVENOR
Dr. R. Selvam
Asst. Prof & Head / Biochemistry

COORDINATORS
Mrs. B. V. Febiyola
Asst. Prof / Biochemistry
Mr. K. Srinivasan - IRF
Mr. K. Karthick - IRF

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World Cancer Day awareness program organized by the Department of Biochemistry, featuring an insightful expert talk by Dr. A. Mohan Prasanth on 05.02.2024 at SPIHER

Best Green & Clean Campus Award presented to SPIHER for exemplary environmental stewardship and campus sustainability.



2024 Patents in SDG 3

Sl. No	Patent Title	Department	Date (2024)	Relevant SDG(s)	Justification
1	Advanced Vehicle Control and Safety Systems	Civil Engineering	06.02.2024	SDG 3 (Good Health & Well-being), SDG 11 (Sustainable Cities)	Enhances road safety, reduces accidents, supports safer urban mobility.
2	An Air Quality Mobile Monitoring Device	Civil Engineering	27.03.2024	SDG 3, SDG 11, SDG 13 (Climate Action)	Monitors air pollution, helps cities manage environmental health.
3	IoT-based COVID Patients Health Monitoring System	Biomedical Engineering	19.01.2024	SDG 3	Supports pandemic response and patient monitoring.

Sl. No	Patent Title	Department	Date (2024)	Relevant SDG(s)	Justification
4	Health Check-up Device for Pet Animals	ECE	02.02.2024	SDG 15 (Life on Land), SDG 3	Promotes animal health and welfare.
5	Periodontal Deep Cleaning & Medication Delivery Device	ECE	07.03.2024	SDG 3	Advances dental health and treatment accessibility.
6	Breast Cancer Detection Device	ECE	07.03.2024	SDG 3	Early cancer detection improves survival rates.
7	AI-based Animal Tissue Decellularization Device	Microbiology	02.04.2024	SDG 3, SDG 9	Supports biomedical innovation for regenerative medicine.
8	Device for Production of Cancer Vaccines	Biochemistry	19.04.2024	SDG 3	Advances cancer treatment and prevention.
9	Device for Tooth Extraction	ECE	28.03.2024	SDG 3	Improves dental surgical care.
10	Hydraulic Operated Apparatus for Physiotherapy	ECE	24.06.2024	SDG 3	Rehabilitation and healthcare innovation.
11	AI-based Climate Forecasting Robot	Civil Engineering	24.06.2024	SDG 13, SDG 11	Climate prediction for disaster resilience.
12	Air Pollution Control System	ECE	11.07.2024	SDG 3, SDG 11, SDG 13	Reduces urban air pollution.
13	Solar Powered Smart Hat for Physically Challenged	Mechanical Engineering	20.06.2024	SDG 3, SDG 10 (Reduced Inequalities)	Assists differently-abled individuals with energy-efficient wearables.
14	Portable Device for Measuring Sugar Level through Saliva	Biotechnology	12.04.2024	SDG 3	Non-invasive health monitoring.
15	Sanitizer Robot	CSE	15.07.2024	SDG 3	Hygiene automation for public health.
16	IoT-based Smart Robot for Air	Mechanical Engineering	02.08.2024	SDG 3, SDG 9	Improves indoor air quality and



Sl. No	Patent Title	Department	Date (2024)	Relevant SDG(s)	Justification
	Conditioner Duct Cleaning				maintenance efficiency.
17	Machine Learning-based Stress Detection Device	Mathematics	22.08.2024	SDG 3	Mental health monitoring.
18	Breast Tumor Diagnostic Imaging Device	Chemistry	26.09.2024	SDG 3	Advances cancer diagnostics.

2024 Book Chapters in SDG 3

Sl. No	Faculty	Title of Book Chapter	Department	Publisher	SDG(s)	Justification
1	Dr. J. Arunkumar	Design & Manufacturing of 3D Printed Sensors for Biomedical Applications	EEE	Springer Singapore	SDG 3 (Good Health), SDG 9	Biomedical innovation for healthcare.
2	Dr. Sayeeda Sultana	Environment and Human Health	Chemistry	Kripa Drishti Publications	SDG 3, SDG 13 (Climate Action)	Links environmental sustainability with public health.
3	Dr. K. Gurusami	Nanocoatings in Medicine: Revolutionizing Healthcare	Mechanical Engineering	IGI Global	SDG 3, SDG 9	Advances medical technology for precision healthcare.
4	Dr. G. Kannan	Stakeholder Perspectives in Healthcare Innovation	Management Studies	IGI Global	SDG 3, SDG 9	Encourages inclusive healthcare innovation.
5	Dr. D. Kavitha	Prediction of Corneal Ulcer Using Deep Learning	Computer Applications	Taylor & Francis	SDG 3	AI-based medical diagnostics.

Sl. No	Faculty	Title of Book Chapter	Department	Publisher	SDG(s)	Justification
6	Dr. B. Shanthini & Mr. K. Cornelius	Models for Driver Assistance System	CSE	Scrivener Publishing	SDG 3, SDG 11	Improves road safety and smart mobility.

Conclusion:

In conclusion, the institution's sustained participation in international **events, capacity-building programmes, and global research collaborations** demonstrates a strong commitment to advancing SDG 17.3.3. Through seminars, conferences, awareness drives, and outreach activities, the institution has fostered people-centered international partnerships that strengthen global cooperation and promote shared progress. The contribution of faculty and students to **research publications** in international journals further reinforces this commitment. Collaborative studies, co-authored papers, and interdisciplinary research outputs help address global human challenges and support the exchange of knowledge across borders. These scholarly contributions not only elevate academic standards but also promote solutions that benefit communities worldwide.

Together, these initiatives humanitarian events, global engagements, and collaborative research publications highlight the institution's active role in building inclusive, human-focused, and sustainable international partnerships. They serve as strong evidence of the institution's dedication to SDG 17.3.3, ensuring that global cooperation continues to support people's well-being and collective development.