



Stanley College of Engineering & Technology for Women (Autonomous)

(Approved by AICTE and Affiliated to Osmania University, Accredited by NBA (UG Courses in -CSE, ECE, EEE & IT) & NAAC with 'A' Grade)
Chapel Road, Abids, Hyderabad-001 Ph. No 040-23234880, 23244880

Dated: 20-2-2024

3.1.1 The institution's research facilities are frequently updated and there is well defined policy for promotion of research which is uploaded on the institutional website and implemented.

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Principal

Gatya Aravindh.
20/2/2024

Stanley College of Engineering and Technology for women

PRINCIPAL
STANLEY COLLEGE OF ENGINEERING AND
TECHNOLOGY FOR WOMEN (AUTONOMOUS)
Chapel Road, Abids, Hyderabad, Telangana

3. RESEARCH, INNOVATIONS AND EXTENSION

3.1 Promotion of Research and Facilities

3.1.1 The institution's research facilities are frequently updated and there is well defined policy for promotion of research which is uploaded on the institutional website and implemented

Log Register for the Student

98							99						
S.No	Date	Branch	R.No	YBR	NAME OF THE STUDENT	NAME OF THE TOPIC & Sig	S.No	Date	Branch	R.No	YBR	NAME OF THE STUDENT	NAME OF THE TOPIC & Sig
1	24-1-24	IT	7052	4 th	Chakshita	Image Encryption and map using dynamic AES	4	5/1/24	CME	40004	4	Iqbalshma	Flamoforge - Recipe generator
2	24-1-24	IT	7053	4 th	Ch.thesis		5	5/1/24	CME	40055	4	Darshana	
3	25/1/24	ECE	5025	3 th	K. Shrujan	IoT based weather monitoring Plagiarism checker	1	6/1/24	ECE	5009	4	B. Sree. Supriya	Abstract for based sarvam detection
4	27/1/24	ECE	5016	7 th	E. Pravalika	ML topic for weather	1	7/1/24	AI&DS	7029	4	Nirudha	
5	28/1/24	ECE	5021	7 th	H. Nandini	ML topic for weather	2	7/2/24	IT	7066	4	M. Vaishnavi	Foureye
6	28/1/24	ECE	5001	3 th	A. Jahnavi	Brain disorder detection	3	7/1/24	IT	7068	4	N. Sanksh	Foureye
7	25/1/24	IT	5051	4 th	Mamitha Sen. P	Cyberbullying in tweets							
8	27/1/24	IT	7027	4 th	N. Kavya	CO2 emission dashboard							
9	29/1/24	IT	7026	4 th	N. Nikhila	CO2 emission dashboard							
10	29/1/24	ECE	5016	3 th	E. Pravalika	Regression model							
11	29/1/24	ECE	5019	3 th	G. Sivani	Abstract							
12	29/1/24	ECE	5001	3 th	A. Jahnavi	Brain Abstract							
13	29/1/24	ECE	5028	3 th	K. Shrujana	Regression report							
14	29/1/24	ECE	5021	3 th	H. Nandini	Regression report							
15	29/1/24	IT	7019	4 th	Mehnoor Begum	stock market prediction using machine learning							
16	30/1/24	IT	7015	4 th	K. Sree. Deepthi	Toxic comment classification							
17	30/1/24	IT	7023	4 th	N. Greshma	Toxic comment classification							
18	30/1/24	IT	-	-	T. C. mathapriya	Cyberbullying							
19	1/2/24	IT	7046	3 th	Sruvanthi	Tada kano							
20	1/2/24	IT	7023	3 th	M. Greshma	Toxic comment classif							
21	1/2/24	IT	7015	4 th	K. Sree. Deepthi	Toxic comment classification							
1	2/2/24	CME	40005	4	Arishta	Flamoforge - Recipe							
2	2/2/24	CME	40001	4	Iqbalshma	" generator							
3	2/2/24	CME	40035	4	Darshana								
4	2/2/24		7048		Prapti	(Placement prediction plagiarism)							
5	2/2/24		7049		Sudhama	plagiarism (global prediction system)							
1	3/2/24	IT	7015	4 th	Poojitima	plagiarism (chatting)							
1	5/2/24	IT	7015	4 th	Poojitima	plagiarism (chatting)							
1	5/2/24	IT	7307	3 rd sem	Sowanya	debt for us (sites) Foureye defensive deception							
2	5/2/24	IT	7305	3 rd sem	G. Nilpa	detecting anomalies in water usage patterns using data mining techniques							

R&D Inauguration



Plagiarism report for M.Tech Students

Plagiarism Checker X Originality Report



Plagiarism Quantity: 2% Duplicate

Date	Tuesday, February 06, 2024
Words	6 Plagiarized Words / Total 258 Words
Sources	More than 2 Sources Identified.
Remarks	Low Plagiarism Detected - Your Document needs Optional Improvement.

IOT BASED LANDMINE DETECTOR ROBOT WITH GPS AND ESP32-CAMERA ABSTRACT The main aim of this project is to detect the metallic objects passing over metal detector with metallic sensor using new model of robot vehicle controlled with DC motor and Web page based of WIFI -technology. A landmine is an explosive device or bomb which is kept under the surface of ground near the enemy spot to destroy them. Especially in mine-affected countries like Afghanistan and Iraq. Most land mines are laid on just below the surface of ground and activated by pressure or trip-wire.

Usually normal detector contain a metallic sensor and buzzer to detect the landmines over areas, but is not much safety device in this generation because nowadays the Enemy become too smart with Advance technology they keep landmines beside us which we can even sense it. For that reason we came with this project with advance technology of landmine detector robot with GPS location tracking and Camera. With this technology we can operate robot vehicle with Mobile or laptop by web -paged of wifi module it detect the landmine and record the location of particular area with GPS and shows the picture of metal by camera simultaneously with buzzer, after detection it again refresh web -page by the code we dumped.

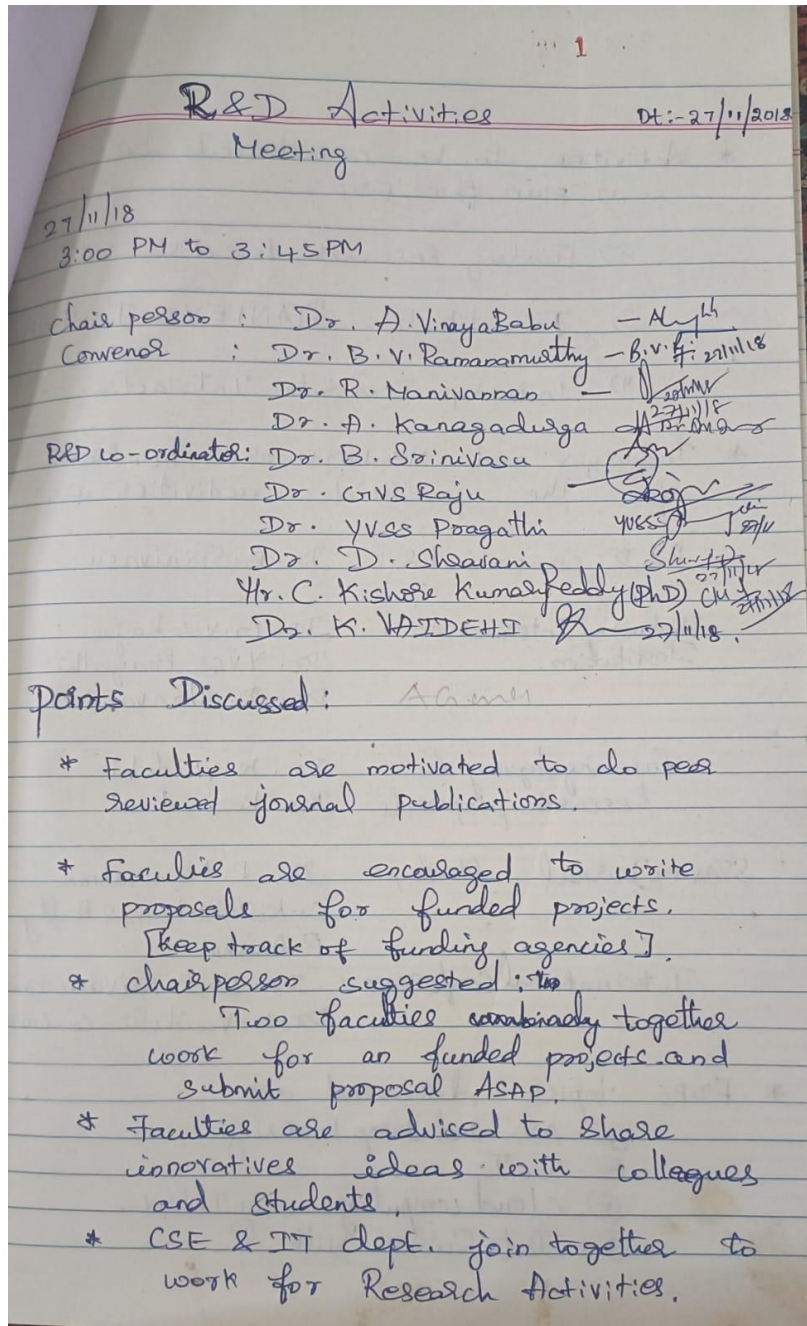
This is most safety method for landmine detection which gives real time response which protects human life. Keywords: Buzzer,ESP32-Camera DC motor, Nodemcu, wifi-module, GPS
Batch: A15 Internal guide B. Sree Supriya(160620735009) Mrs. V. Sudarshini K.P. Sai Sravani(160620735033) Assistant professor Z. Sowjanya(16020735045) ECE Department

Sources found:

Click on the highlighted sentence to see sources.

- 2% <https://apopo.org/what-we-do/detecting-1>
-

R&D Minutes of Meeting



* Activities to be concentrated are:

- 1) Plan for FDP's.
- 2) Funding Research projects
- 3) To initiate STANLEY JOURNAL
- 4) Industry Institute Interaction.

* Incharges and Members are nominated for the fore-said activities are:

R&D Co-ordinator: Dr. B. Srinivasu

Industry/Interaction : Dr. G. V. S. Raju
Institution Dr. YVSS Pragathi
Dr. D. Shrivani

Funding Agency & Research proposals Dr. K. Vaidchi
Mrs. Kezia Pani

STANLEY Journal Startup Dr. R. Manivanan
C. Kishore Kumar Reddy
P. Anisha

International Conference: Dr. B. Srinivasu Co-
Dr. K. Vaidchi Co-Coord

* FDPs topics discussed are

- ⊕ AI and Deep Learning
- ⊕ ICT
- ⊕ Cloud computing - IT dept.
- ⊕ Data Science with R.

- ⊕ Block chain
- ⊕ Bigdata Analytics

* R&D Lab cum discussion room identified in E-block ground floor (E)

* Faculties are requested to submit their API Score.

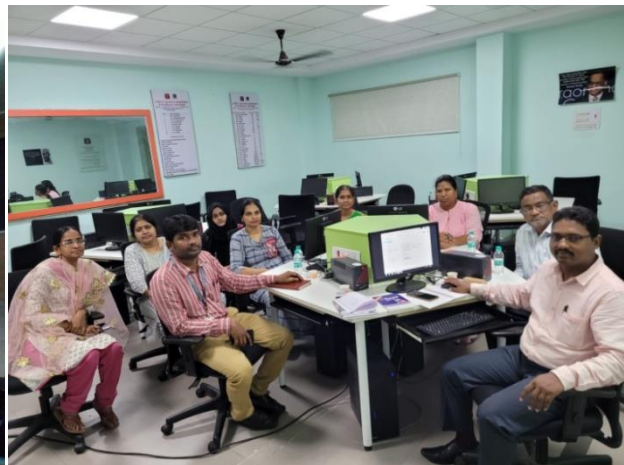
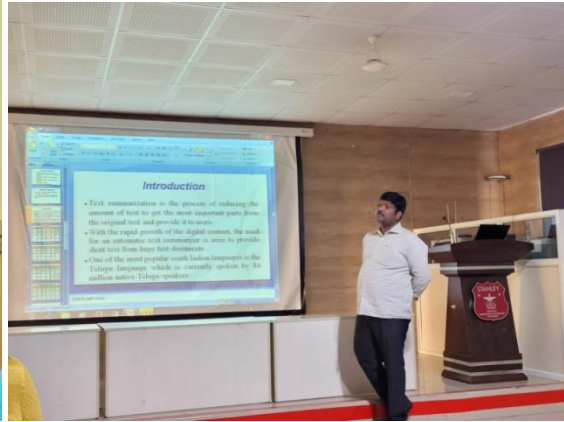
* R&D members are insisted to meet every month 2nd Thursday.

~~ms~~
Co-ordinator

Prepared by

B.V.K. Inubara
~~ms~~
HOD - CSE

Dr H.B Singh Sir Visit for Research





Stanley College of Engineering & Technology for Women (A)

Chapel Road, Hyderabad.

Department of R&D

List of Granted Projects for Last 5 years

Sl. No.	Name of of the PI/ Co-PI/Name of the person holding the Chair	Title of the research project, endowments, Research Chairs	Name of the funding agency	Amount in INR.
YEAR – 1 (2018 – 2019)				
	NIL	NIL	NIL	NIL
YEAR – 2 (2019 – 2020)				
1.	Dr.K.Vaidehi	National Conference for Women on Innovations in Science Engineering & Technology.	AICTE- Conference	Rs. 1,63,333 /-
2.	Dr.B.V.RamanaMurthy	Data Supervision and Computing lab	AICTE- Modrobs	Rs. 1122745 /-
3.	A. Gopala Sharma	ECE-FDP (ICT tools for teaching, Learning Process and Institutes)	IIIT DM, Jabalpur	Rs 88000 /-
YEAR – 3 (2020 – 2021)				
4.	Dr.B.V.RamanaMurthy	Data Supervision and Computing lab	AICTE- Modrobs	Rs. 1122745 /-
5.	A. Gopala Sharma	MODROBS	AICTE	Rs.13,27,294 /-
YEAR – 4 (2021 – 2022)				
6.	Dr. G. Karthik	SPICES	AICTE	Rs.1,00,000 /-
7.	Dr. G. Padmasree	Effect of Neodymium	UGC DAE	7.75Lakhs /-

		(Nd) and Praseodymium (Pr) doping on structural, magnetic, electrical, dielectric, optical and Mossbauer properties of YFeO ₃ .	CSR	
YEAR – 5 (2022 – 2023)				
8.	Dr. G. Karthik	DST	Ministry of Science and Technology, DST	Rs.47,63,158 /-


TIDE PROJECTS APPLIED

S.NO	TIDE NUMBER	TITLE	PI NAME	DEPARTMENT	STATUS-GRANTED /APPLIED
1	TPN/99565	AI Enabled Smart Cane Assisted Technology To Detect Recognize Every Day Objects or Items, Face Recognition	Dr D. Radhika	CSE	Applied
2	TPN/100737	An effective hand gesture recognition for members of Auditory and Speech disabled community	Dr. UdayiniChandana	ECE	Applied
3	TPN/100913	Design and Development of an In-Home Monitoring System for Elderly Person Activity Recognition	Mrs.M. Sowmya	CSE	Applied
4	TPN/100914	Develop a Brain Computer Interface BCI System based on Non-Invasive Neuroprostheses Devices for Decoding Speech in Paralyzed Person with Anarthria.	Dr. Vaidehi	CSE	Applied

Department of Science & Technology

Subject: Acknowledgement of Online Project Submission & Temporary Registration No.

Dear Dr. D Radhika


Online Project Management System
 onlinedst.gov.in | Email: pmso.dst@nic.in

This is to acknowledge the online submission of your project proposal entitled **AI Enabled Smart Cane Assisted Technology To Detect Recognize Every Day Objects or Items, Face Recognition** testing the proposal submission. You can track the status of your proposal quoting the reference as given below:

Temporary Registration Number : **TPN / 99565**

You will be receiving a File Number shortly.

Please mention **TEMPORARY REGISTRATION NUMBER** and **TITLE OF THE PROJECT** in all future correspondence with DST, till you receive the File Number. You can access this project account at <http://onlinedst.gov.in/> using the Principal Investigator (PI) username and password.

Regards
Administrator
e-PMS


This is an auto generated mail. Please do not reply

***This is an autogenerated mail from e-PMS**

Department of Science & Technology

Subject: Acknowledgement of Project Under Consideration & Reference File No.

Dear Dr. UDAYINI CHANDANA


Online Project Management System
 onlinedst.gov.in | Email: pmso.dst@nic.in

This refers to the project proposal entitled **An effective hand gesture recognition for members of Auditory and Speech disabled community** testing the proposal submission submitted by you for financial support to this Department.

Please note the File Number: **SEED/TIDE/2023/857** for future reference

This project will be considered under **SEED** Division and **Technology Interventions for Disabled and Elderly (TIDE)** Scheme which is being handled by the following officer:

Programme Officer : Dr. KONGA GOPIKRISHNA , Scientist - 'F', Email Id: k.gopikrishna@nic.in

Please mention the above **FILE NUMBER** and **TITLE OF THE PROJECT** in all future correspondences with DST. You can access this project account at onlinedst.gov.in using the Principal Investigator (PI) username and password.

Regards
Administrator
e-PMS

This is an auto generated mail. Please do not reply

***This is an autogenerated mail from e-PMS**

Department of Science & Technology

Subject: Acknowledgement of Project Under Consideration & Reference File No.

Dear Er. Sowmya M



Online Project Management System

onlinedst.gov.in | Email: pmms_dst@nic.in

This refers to the project proposal entitled **Design and Development of an In-Home Monitoring System for Elderly person Activity Recognition** testing the proposal submission submitted by you for financial support to this Department.

Please note the File Number: **SEED/TIDE/2023/844** for future reference

This project will be considered under **SEED** Division and **Technology Interventions for Disabled and Elderly (TIDE)** Scheme which is being handled by the following officer:

Programme Officer : Dr. KONGA GOPIKRISHNA , Scientist - 'F', Email Id:
k.gopikrishna@nic.in

Please mention the above FILE NUMBER and TITLE OF THE PROJECT in all future correspondences with DST. You can access this project account at onlinedst.gov.in using the Principal Investigator (PI) username and password.

Regards
Administrator
e-PMS

This is an auto generated mail. Please do not reply

List Of Faculty Benefiers

Dates (from-to) (DD-MM-YYYY)	Title of the conference/ workshops/ name of the professional body	Name of the teacher	Amount provided by the HEI	Purpose (Membershiop fee/travel and other expenses/Registra tion fee)
2018	IIAR	YVSS Pragathi	750	Conference Registration Fee
2018	JCTN-2018	Dr.Manivannan	2500	APC
2018	JCTN(2)	Dr.Manivannan,Dr.B Srinivas,Dr.K.Vaidehi	10,000	APC
2018	VMware workshop	B.Mounika, B Revathi	6000	APC
2019	2 nd international Conference on paradigms emgg & Technology	G.Saraswathi	2000	APC
2019	IEEE ICCES Conference	Dr C Kishore Kumar Reddy	3250	Conference Registration Fee
2019	INOIA-2019, Lendi College	Dr B V Ramana Murty and 3 others	4000	APC
2019	ICCSEA-2020, GIET	Dr YVSS Pragathi	4000	APC
2019	ICDECT	Dr B Sinivasu	3500	APC
2019	ICDECT	M.Suhasini	3500	APC
2019	ICDECT	Dr. C.Kishore Kumar Reddy	3500	APC
2019	ICDECT	Sumayya Afreen	3500	APC
2019	ICDECT	M.Swapna	3500	APC
2019	ICDECT	C.Kishore Kumar Reddy	3500	APC
2019	Uthama Acharya Puraskar	M Swapna	1600	APC
2019	Springer INDIA 2019	C.Kishore Kumar Reddy	4000	Conference Registration fee
2019	INDIA 2019 INTERNATIONAL CONF and publication in Springer	M Swapna	4000	APC

Year -2 (2019-20)

Dates (from-to) (DD-MM- YYYY)	Title of the conference/ workshops/ name of the professional body	Name of the teacher	Amount provided by the HEI	Purpose (Membershiop fee/travel and other expenses/Registra tion fee)
2019	International Confedence	G.Saraswathi,Amtul Sana Ameern	1500	APC
2019	IEEE ICCES Conference	Dr C Kishore Kumar Reddy	3250	Conference Registration Fee
2019	INOIA-2019	Dr B V Ramana Murty and 3 others	4000	APC
2019	ICDECT	Dr B Sinivasu	3500	APC
2019	ICDECT	M.Suhasini	3500	APC
2019	ICDECT	C.Kishore Kumar Reddy	3500	APC
2019	ICDECT	Sumayya Afreen	3500	APC
2019	ICDECT	M.Swapna	3500	APC
2019	ICDECT	C.Kishore Kumar Reddy	3500	APC
2019	INDIA 2019 INTERNATIONAL CONF and publication in Springer	M Swapna	4000	APC
2019	Edge intelligentence and edge computing in AI	Sumayya Afreen,Amtul Sana Ameern	1500	APC
2019	Advanced Cloud computing	Dr Y V S Sai Pragathi,Dr K Vaidehi, P.Prashanthi	9000	APC
2019	uthama acharya puraskar-	M.Swapna	1600	APC
2019	INDIA 2019 INTERNATIONAL CONF and publication in Springer	M.Swapna	4000	APC
2020	Transformation in Engineering Education	D.Archana,KVaidehi,D Radhika	9000	APC
#####	ICCSEA-2020	Dr YVSS Pragathi	4000.00	APC
Year -3 (2020-21)				
Dates (from-to) (DD-MM- YYYY)	Title of the conference/ workshops/ name of the professional body	Name of the teacher	Amount provided by the HEI	Purpose (Membershiop fee/travel and other expenses/Registra tion fee)

#####	International seminar interaction on AI & DS	Dr.C.Kishore Kumar Reddy.	5684.00	APC
#####	IJITEE , June 2020	Dr.Y.V.S.Sai Pragathi.	4000.00	APC
#####	International conference of advanced science & technology	Dr.Y.V.S.Sai Pragathi.	6500.00	APC
#####	ICMA 2021 conference reg fee	Dr.C.Kishore Kumar Reddy.	6000.00	APC

Year -4 (2021-22)

Dates (from-to) (DD-MM-YYYY)	Title of the conference/ workshops/ name of the professional body	Name of the teacher	Amount provided by the HEI	Purpose (Membershiop fee/travel and other expenses/Registra tion fee)
2021	3rd International Conference on Inventive Computation and Information Technologies ICICIT 2021	Dr. R. Manivannan, Dr. K Vaidehi	4750	APC
2022	7Th INDIA 2022 Conference, indexed by scopus, Publication by Springer AISC	Dr. C Kishor Kumar Reddy	3500	APC
		Dr. PR Anisha		APC
2022	7Th INDIA 2022 Conference, indexed by scopus, Publication by Springer AISC	Dr. BV Ramana Murthy	3500	APC

Year -5 (2022-23)

Dates (from-to) (DD-MM-YYYY)	Title of the conference/ workshops/ name of the professional body	Name of the teacher	Amount provided by the HEI	Purpose (Membershiop fee/travel and other expenses/Registra tion fee)
11-04-2023 - 13-04-2023	IEEE ICOEI	Dr C Kishor Kumar Reddy	3250	Conference Registration Fee

17-01-2023 - 17-01- 2023	A Community Risk Monitoring and Prevention Method Based on IoT And Deep Learning	Dr. R. Manivannan	2875	Patent Publication Fee
17-01-2023 - 17-01- 2023	A Community Risk Monitoring and Prevention Method Based on IoT And Deep Learning	D Radhika	2625	Patent Publication Fee
17-01-2023 - 17-01- 2023	A Community Risk Monitoring and Prevention Method Based on IoT And Deep Learning	K Srilatha	2375	Patent Publication Fee
17-01-2023 - 17-01- 2023	A Community Risk Monitoring and Prevention Method Based on IoT And Deep Learning	M Swathi Sree	2125	Patent Publication Fee
17-01-2023 - 17-01- 2023	A System and Method for A Deep Learning Network for Multi-Label Classification with Partial Annotations	Dr. R. Manivannan	2875	Patent Publication Fee
17-01-2023 - 17-01- 2023	A System for Providing Cloud Computing Architecture without Server and Method Thereof	Dr. R. Manivannan	2875	Patent Publication Fee
12-04-2022 - 12-04- 2022	Vision-Based Personal Face Emotional Recognition Approach Using Machine Learning and Tree-Based Classifier	Dr. R. Manivannan	2375	Book Chapter Fee
15-11-2022 - 15-11- 2022	An Automated System to Preprocess and Classify Medical Digital X-Rays	Dr. R. Manivannan	4750	Book Chapter Fee
15-11-2022 - 15-11- 2022	K-Nearest Neighbor and Collaborative Filtering-Based Movie Recommendation	Dr. R. Manivannan	4750	Book Chapter Fee

	System			
28-04-2023 - 29-04- 2023	ICRCPM 2023	Dr C Kishor Kumar Reddy	2000	Conference Registration Fee

Stanley's Research Policy - 2020



Stanley College of Engineering & Technology for Women

(Autonomous)

RESEARCH & DEVELOPMENT CELL



Chirag Ali Road, Abids, Hyderabad, Telangana, India – 500001

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(Autonomous)**



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1. INTRODUCTION

1.1. Policy Overview

This policy document provides the road map and strategy for Stanley College of Engineering & Technology for Women to strengthen Research and Development, and Innovation ecosystem. This Policy shall provide a systematic approach and support for both students and faculty to progress in research activities. This policy is part of college statutory document and may amend from time to time. This document shall be kept under review by the Research Council of the Institution, and implemented on subject to approval of General Body. The major purpose of the policy is to promote Quality Research, build resources, and provide necessary support to the stakeholders. In the rapid development of Technologies, and Industries opened the opportunities for the Academic institutions to expand the services through Research based on innovation. "**Necessity is the mother of invention**" is a well-known proverb. It means, roughly, that the primary driving force for most new inventions is a need. The research and Innovation ecosystem foster the students and faculty to think beyond the curricular activities and address the day to day life needs through quest for solution. More real-time problems can be addressed at educational institutions provided good research facilities, infrastructure, exposure to industries, field examination, collaboration with top institutions, industries, and adequate financial assistance. This Research and Innovation Policy framework gives road map with clear objectives to the students, staff and management. This systematic strategy will help the stakeholders to meet the objectives and produce quality output.

1.2. About College

Stanley College of Engineering & Technology for Women – a temple of learning was established in the year 2008 on a sprawling 6-acre campus of historic Stanley College campus at Abids, Hyderabad. The college provides a serene and tranquil environment to the students, boosting their mental potential and preparing them in all aspects to face the cut-throat global competition with a smile on the face and emerge victorious. Stanley College of Engineering & Technology for Women has been established with the support of Methodist Church of India that



Stanley College of Engineering & Technology for Women (Autonomous)



Chirag Ali Road, Abids, Hyderabad, Telangana, India – 500001

www.stanley.edu.in | rnd@stanley.edu.in | iic@stanley.edu.in

has been gracious and instrumental in making the vision of an Engineering College on this campus a reality. The College is affiliated to the prestigious Osmania University, Hyderabad. It has been approved by AICTE, New Delhi & permitted by the Government of Telangana . It has been sanctioned six UG – courses Computer Science & Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering, Information Technology, Computer Engineering, Artificial Intelligence and Data Science and three PG courses M.Tech in CSE, M.E in Embedded systems and Masters Degree in Business Administration.

Vision

Providing quality engineering education for girl students to make them competent and confident to succeed in professional practice and advanced learning. Establish state-of-art-facilities and resources to facilitate world class education. Integrating qualities like humanity, social values, ethics, leadership in order to encourage contribution to society.

Mission

Empower Women; Impact the World. Empowering girl students through professional education integrated with values and character to make an impact in the World.

1.3. About R&D Cell

Research and Development (R&D) Cell at Stanley College of Engineering & Technology for Women was initiated in 2008. R&D Cell governs and monitors various activities under the leadership of Dean (Academics), Head of the Institution and Head R&D. The R&D Council consists of Academicians, Industrialists, Scientists, and Students to define, review research road map and create resources to meet the objectives from time to time.



Stanley College of Engineering & Technology for Women (Autonomous)



Chirag Ali Road, Abids, Hyderabad, Telangana, India – 500001

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The R&D Cell has an open ecosystem for the students and staff to learn, innovate and experiment the ideas in Science, Technology, Engineering and Mathematics. The R&D has strong committed hands to support the students to think out of the box and explore to real-time problems and solutions. Major focus of the R&D at Stanley is to nurture the young engineers on 21st Century Technologies, further shall join their hands in MAKE IN INDIA mission. The aim of the R&D is to bring Research, Innovation and Entrepreneurial culture in the campus by connecting to Industry and Research Organizations. It has taken couple of initiatives to build an ecosystem where the stakeholders can take-up research activities to incubate their ideas. Two R&D Centres under CSE department and ECE department are recognized by Osmania University, wherein the senior faculty members are recognized to guide the research scholars under the university. These centers are strongly connected to industry and holding potential consultancy projects in the fields of Health Care, Agri-Tech, Data Science, Industrial Research, e-Commerce, Networking, Natural Language Processing etc.

The R&D activities are designed and executed by experienced and expert members from Industry, Academia, and Research Organization. The R&D Cell is extending its support to build Entrepreneurial Ecosystem in the campus. In the process we have established Institution's Innovation Council (IIC) under MHRD's Innovation Cell, Established Incubation Centre.

Beyond the quality education, Stanley aimed to maintain research and innovation ecosystem and encourage faculty to take up research to meet global needs and support nation economy at large. Experiential learning and student's industrial exposure, impactful research, and societal engagement are part of our activities. To meet the Vision statement of the institution, A strategic plan is defined with Mission according to New Education Policy.



2. AIM & OBJECTIVES

2.1. Aim

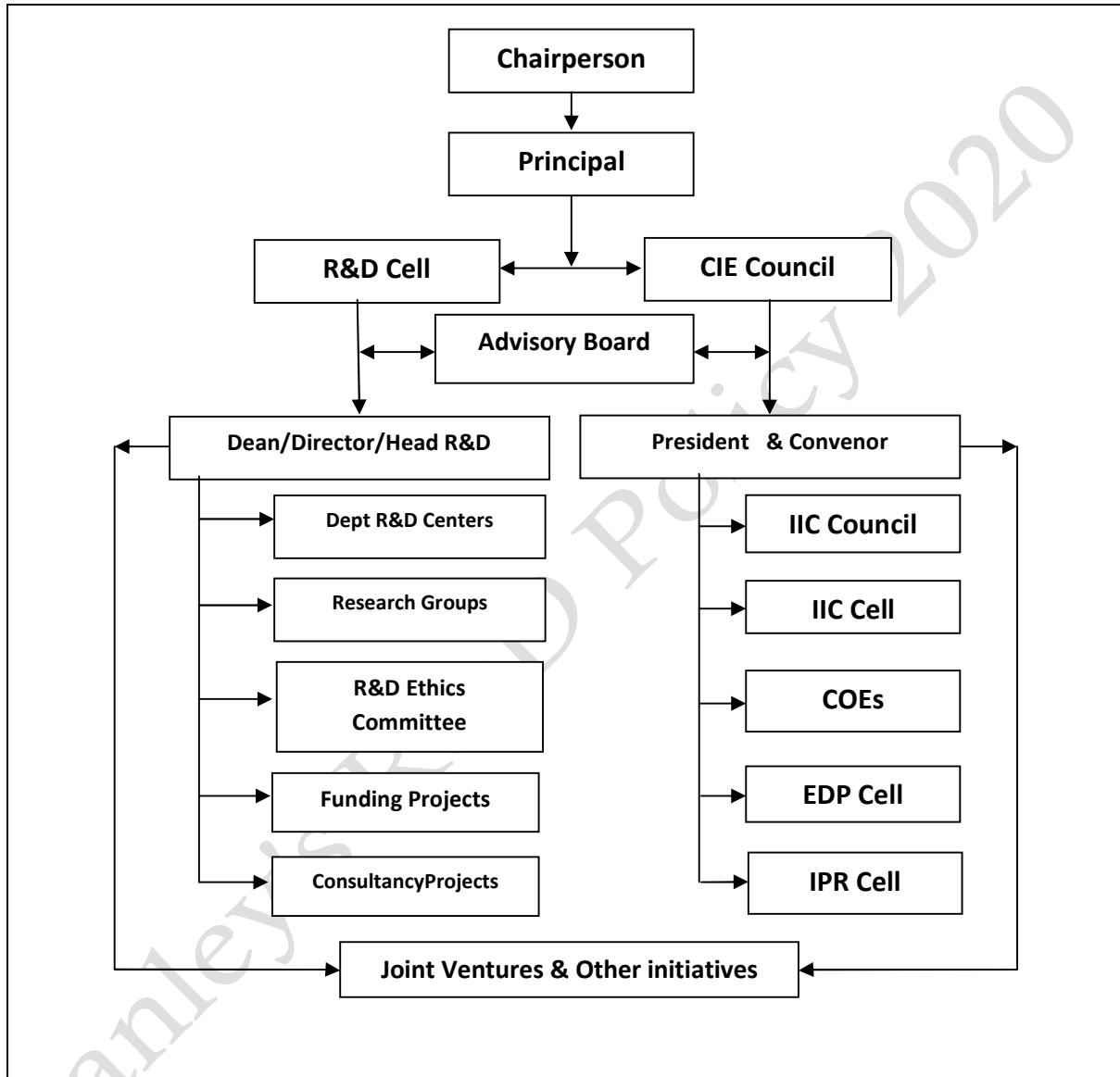
To build research and innovation ecosystem for continuous and dynamic research culture at Stanley College of Engineering & Technology for Women.

2.2. Objectives

- To build research and innovation ecosystem in the college to foster research culture and support faculty and students on Research activities and opportunities.
- To bring awareness on research opportunities and encourage students and staff of every department to take active participation.
- To motivate the staff to join in research affinity groups to learn latest technologies, research methodology and improve research abilities.
- To enhance the research capabilities of the faculty, strengthen infrastructure of all research centers in the institution from time to time.
- To provide timely financial assistance, pool up the resources to handle the research projects of national importance.
- To encourage students and staff to publish the research works in quality journals and Conferences of repute.
- To provide guidance and support to make good research proposals and get funding from reputed agencies for hassle free implementation.
- To encourage and support faculty to pursue quality research and obtain Doctoral Degree from reputed Universities.
- To assist students and faculty to obtain IPR (Patents, Designs, Copyrights & Trademarks) for innovative ideas and developments.
- To provide mentoring and seed funding to develop prototypes of the potential and business ideas through Institution's Innovation Council.
- To connect, collaborate with professionals, and create solutions to social problems.
- To build an Incubation Center to promote startups and encourage entrepreneurial culture.



3. R&D STRUCTURE





4. R&D CELL

R&D Cell functions towards building Research ecosystem to pursue and promote quality research in frontier engineering and technologies.

4.1. R&D Council

Research Council is the principal body to review, design, and draft the research policies and research activities from time to time. Research Council shall review and supervise implementation of research strategies and policies as per the directions of Executive Council.

Constitution of R&D Council

- i) Chairperson – Dean(Academics)
- ii) Special Invitee – Principal
- iii) Convenor – Head, R&D Cell
- iv) Advisory Board Members – Directors, HoDs, & External Nominees
- v) Members – Dept R&D Coordinators

4.2. Dept R&D Centers

- i) Research Centers recognized by affiliating University / AICTE / UGC etc.
- ii) Research Centers Sponsored by external funding agencies.
- iii) Research Centers Associated with reputed Organizations for collaborative research.

4.3. Research Groups

- i) Research affinity groups carrying out research on particular domain or similar domains. Faculty, Students and Industry experts forms groups to carry out research activities and publish quality outcome through SCI/Scopus/WoS journals and or obtain Patents and or Transform them into profitable business models through CIE.
 - a. Data Science & Computer Intelligence
 - b. Networking & Security
 - c. Informatics & Cognitive Science
 - d. Power & Renewable Energy
 - e. Communications & Mining
 - f. Disruptive Technologies



- g. Social Innovation
- h. Other Groups can be added from Time to Time based on Demand

4.4. R&D Standards

i) R&D Ethics Committee

Ethics committee is by default R&D Council, which regulates the publication ethics from time to time to ensure integrity and accountability. R&D Council may form a team of expert to review a specific research work, reports, publications and outputs of any research work to ensure no infringement in the research work.

ii) Research Ethics

Research is a systematic investigation of facts and provides conclusions on a particular subject or problem. Stanley fosters higher values of trust, honesty, integrity, and responsibility with mutual respect for persons and organizational intellectual properties. Stanley maintains high values of integrity and accountability in research and development activities. Stanley adopted R&D ethics and standards for producing quality and non-compromising outcome from research activities.

- i) The researchers shall strictly follow “Research Code of Conduct” as per the Funding agency, Publisher and or Institution.
- ii) Authors must follow anti-plagiarism rules and don’t use the words, figures, or ideas of others without ascription. All sources must be properly cited.
- iii) There should be no conflict of interest in Publication or implementation of work.
- iv) The Researchers shall follow SCI/Scopus/WoS publication ethics while conducting research and drafting Papers.
- v) All the publications from this institution must undergo plagiarism check and get approved by publication ethics committee.
- vi) Infringement of IPR to any level is strictly prohibited, the consequences of infringement has to be borne by authors alone.
- vii) The Stanley College of Engineering & Technology for Women as affiliating institution is not responsible for any infringement, plagiarism, duplication, fabrication, and other misconduct in both Research and Publication.



5. PUBLICATION POLICY

5.1. Publications

- i) All Publications shall uniquely follow “**Stanley College of Engineering & Technology for Women**” as name of affiliation.
- ii) All the faculty members are encouraged to publish research papers in **Scopus, Web of Science, and SCI Journals** with appropriate financial assistance.
- iii) **Incentives for the Publications** shall be given based on the contributions of the Authors. Similar to API Score Distribution.
- iv) **Special Incentives** will be given for the Research Papers published in **Free and Open Access Journals**.
- v) It is required for every faculty to maintain **API Score as per UGC norms** from time to time to retain the position / designation.
- vi) Every eligible **Faculty has to enroll in Ph.D program** within a year after joining in the Institution and progress in work to finish the Degree in time as per UGC norms.
- vii) Special Incentives will be given for **Book Chapters and Books publications** on repute with quality publishers – i.e Indexed by Scopus/WoS/SCI/Reputed Publishers with appropriate ISSN/ISBN.

5.2. Incentives

S.No	Description	Incentives
1	SCI Journal (Free)	Rs.10,000/-
2	Scopus / Web of Science(WoS)	Rs.7,500/-
3	Book Chapters (Reputed)	Rs.5,000/-
4	Books (Reputed & Indexed Publishers)	Rs.10,000/-
5	UGC CARE Journals (First Time Publication)	Rs.2500/-
6	Best Researcher Award (Annual) (Memento & Certificate)	Rs.2000/-



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6. EXTERNAL FUNDING PROJECTS

- i) To take-up extramural research / sponsored research projects through external funding agencies.
- ii) To identify and apply for different research grants – aiming engineering and technology based research works particularly to address the societal problems and industrial needs.
- iii) The faculty and researchers shall think beyond curriculum and work on research topics, derive innovations and instrumentals to nation growth.
- iv) Being Autonomous institution, College gives freedom to faculty members to get the funding for their research activities from external agencies and utilize 100% funds on the project as per the funding agency guidelines.
- v) To conduct preliminary study on any project, The College gives financial support and permission to visit external resources.
- vi) To prepare project proposals, College provides sufficient guidance from seniors, and experts from industry and other research organizations.
- vii) Principal Investigators shall have freedom to apply for any level funding as per the statutory eligibility of the PI and Institution.
- viii) Completion of the Project is the responsibility of the PI & Co-PI. Research Team has to Comply with Sponsoring Agency rules and guidelines.
- ix) Publication of outcomes of the projects either in the form of reports, books, papers or patents shall strictly follow sponsoring agency guidelines. It is also required to mention “Stanley College of Engineering & Technology for Women” as affiliating institution.

6.1. Support for Projects

S.No	Description	Support
1	Project Preliminary Study	OD/Special Leaves
2	Proposal Grant from Agencies	
	Up to 10 Lakhs Proposal	30% of Grant as Incentive
	Above 10Lakhs Proposals	20% of Grant as Incentive
3	Granted Proposals / Projects	100% Utilization on Project



7. CONSULTANCY PROJECTS

Having waste experienced faculty and talented students in the college, the departments have freehand to tie-up with industries, external agencies, and business entities and generate revenue through consultancy projects. With the approval of R&D Council or Principal, Departments or faculty can take-up consultancy projects with the following guidelines.

- i)** College supports our faculty to tone-up their knowledge and skills through Certifications, FDPs, Workshops, and Special Training and convert the knowledge into revenue through Consultancy Projects.
- ii)** Faculties shall take-up any external work without disturbing their regular duties and provide intellectual inputs, knowledge sharing, Training outside aspirants, developing projects, take-up freelancing works etc.
- iii)** All the MoUs or Agreements from external agencies / individuals shall be executed in of Institution only, however the Principal Investigator / Project Coordinator shall be concern faculty members.
- iv)** All the financial transactions shall be made only through Institution's bank account.
- v)** Consultancy must meet the Head of the Institution before making any Proposal to Department or faculty and get approval by submitting proposal and letter of request for service.
- vi)** Consultancy Committee shall conduct a meeting to assess the possibility of executing the project, and to verify availability of resources for time bound completion of the project.
- vii)** Any Consultancy Project / work shall follow "Stanley's Code of Conduct", R&D Ethics (3.1(d)).
- viii)** The revenue generated over the Consultancy Project will be shared to project implementation team and institution as per the Consultancy Projects Committee recommendations.



8. CENTER FOR INNOVATION AND ENTREPRENEURSHIP

Center for Innovation and Entrepreneurship (CIE) is established in the year 2019 to create innovation ecosystem at Stanley College of Engineering & Technology for Women. EDP Cell, IIC Cell, COEs are functioning to cater the needs of students, faculty and industry since from the inception of the college 2008, all the units having aligned objectives were brought under a single network with autonomous working atmosphere with the name **Center for Innovation and Entrepreneurship (CIE)**.

8.1. IIC COUNCIL

Ministry of Education (MoE), Govt. of India has established 'MoE's Innovation Cell (MIC)' to systematically foster the culture of Innovation among all Higher Education Institutions (HEIs). The primary mandate of MIC is to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes while they are informative years. MIC has envisioned encouraging creation of 'Institution's Innovation Council (IICs) across selected HEIs. A network of IICs is established to promote innovation and entrepreneurship in the Institution through multitudinous modes leading to an innovation promotion ecosystem in the campuses. Stanley College of Engineering & Technology for Women started Institution's Innovation Council in 2019 and building innovation culture to nurture young entrepreneurs.

8.1.1. Function of IIC

- i) To conduct various Innovations, IPR and entrepreneurship-related activities prescribed by MIC in time bound fashion.
- ii) Identify and reward innovations and share success stories.
- iii) Organize periodic workshops/ seminars/ interactions with entrepreneurs, investors, professionals and create a mentor pool for student innovators.
- iv) Network with peers and national entrepreneurship development organizations.



- v) Create an Institution's Innovation portal to highlight innovative projects carried out by institution's faculty and students.
- vi) Organize Hackathons, idea competition, mini-challenges etc. with the involvement of industries.

8.1.2. IIC council members- Roles & Responsibility

Constitution of IIC council & members roles and responsibility

i) Faculty Representation: Faculty representation can be from teaching and non teaching staff. One faculty can have multiple roles in IIC council.

- **President** –Faculty representative will be nominated by Head of the Institute.
- **View President** – To lead IIC Council in the absence of President
- **Convenor** - Preferably Incubation in charge of institute or Faculty with Entrepreneurship Experience or Interest.
- **Innovation activity coordinator**
- **Start-up activity coordinator**
- **Internship coordinator**
- **IPR activity coordinator**
- **Social Media Coordinator**
- **ARIIA Coordinator** (optional)
- **NIRF coordinator** (optional)
- **Members** – No limit

ii) Expert Representation: Members (Minimum 3 representative from following)

- **IP Expert/ Patent Expert**
- **Startup / Alumni entrepreneur**
- **Expert from nearby Industry/ Industry association/ Ecosystem Enablers**
- **FI/Bank/Investor/Angel Investor/VC**
- **Nearby Incubation Centre**



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iii) Student Representation: will help Faculty coordinators to carry out various activities.

- **Innovation coordinator** –Up to 10 Members
- **Startup coordinator** –Up to 10 Members
- **Internship coordinator** –Up to 10 Members
- **IPR coordinator** –Up to 10 Members
- **Social Media coordinator** –Up to 10 Members
- **General Members-** No Limit

S.No	Role of the Member	Functionaries
1	Head of the Institution – HoI / Principal	Official Single Point of Contact for MIC & AICTE, who is authorized to approve the entire MIC & IIC activities calendar.
2	President	<ul style="list-style-type: none"> • Heading IIC Council • SPoC heading the council and coordinating IIC, MIC activities by empowering team members in the council. • Formation of IIC Council from time to time • Assigning Roles and Responsibilities to IIC Members • Planning and mentoring IIC team on Self-driven activities.
3	Vice President	<ul style="list-style-type: none"> • Connecting Industry, Incubation Centres, Entrepreneurial Ecosystems to IIC council and support the stakeholders.
4	Convenor	<ul style="list-style-type: none"> • Immediate point of contact after President for IIC activities. • Coordinate with all the IIC coordinators and support for smooth implantation of MIC, IIC and Self Driven Activities. • Preferably Incubation in-charge of institute or Faculty with Entrepreneurship Experience or interest.
5	Innovation Activity Coordinator	Shall promote innovation in the Institution through multitudinous modes leading to an innovation promotion eco-system in the campus, Organize all IIC, MIC and Self Driven Innovation Activities.
6	Start-up coordinator	Coordinate Start-up activities and ensure to implement Design Thinking in start-ups, coordinate with other start-ups ecosystems for extended activities.
7	IPR & Technology Transfer Coordinator	Pursue the IPR and Technology Transfer status of innovations in different stages of IIC activities, Brings awareness on IPR among all



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		IIC stakeholders
8	Internship Activity Coordinator	Primary responsible of Internship Activity coordinator is to identify the potential and aspiring IIC students to get internship in start-ups, Coordinating Training and Placements further
9	NIRF Coordinator	To coordinate with Staff and organized NIRF related activities, maintaining repository of activities, uploading data, publishing on website, and supporting President , Convenor to plan and organize various activities to progress in NIRF ranking
10	Social Media Coordinator	To collect the events information and publish on social media official handlers. Publicity of the activity and uploading the reports on Social Media as prescribed by MIC & IIC.
11	ARIIA Coordinator	To coordinate all the verticals and update the data on portal to get good ARIIA ranking and to establishing a strong start-up ecosystem on campus
12	IP Expert/ Patent Expert	<ul style="list-style-type: none">• Patent expert could be any registered patent agent/lawyer or the subject matter expert/faculty who have sufficient years of experience in the IPR domain.• He/ She would suggest points related to patent and technology transfer in the council meeting.• He/ She would also play a key role in the IPR workshops scheduled in the IIC calendar within that institute.
13	Startup / Alumni entrepreneur	Alumni network of any institution is the most valuable resource of any Institution. The role of alumni entrepreneur is to guide not only the council in the matters of startup ecosystem but to also guide the students of the institution. He/ She can share his success story as an entrepreneur/innovator.
14	Expert from nearby Industry/ Industry association/ Ecosystem Enablers	<ul style="list-style-type: none">• He/ She will attend the council meeting on regular basis (quarterly).• Technical Expert would play the role of mentor/guide to the institute students.• He/ She will help in organizing institute level idea Competition/Hackathons by suggesting suitable problem statements or theme.• He/ She will give his inputs in council meetings about the latest trends in technologies and feasibility of the idea/point discussed.
15	FI/Bank/Investor/Angel Investor/VC	<ul style="list-style-type: none">• He/ She will attend the council meeting on regular basis (quarterly).• His/ Her role is to give information about loan schemes, grant and



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		investments regarding startup and entrepreneurship. <ul style="list-style-type: none">• He/ She will also arrange meetings with investors/sponsor for the events organized by the institute based on the IIC calendar/guidelines.
16	Expert from Nearby Incubation Center	<ul style="list-style-type: none">• He/ She will attend the general council meeting on regular basis (quarterly).• He/ She will help the IIC in conducting idea workshops/ competition/ Hackthons/ bootcamps etc.• He/ She will also help the IIC in identifying ideas from IIC events and provide mentoring, incubation guidance and business network support.
17	Student Representative	Student coordinators will act as a medium of communication between IIC and institute students. He/ She will understand the concept, idea and method of participation in IIC activities and disseminate it to all the students. He/ She will act as a volunteer for IIC programs and will support respective faculty coordinators.
18	Special Invitee	President can nominate any person as a special invitee in IIC council meetings. Special Invitee could be any eminent person in the field of academics/industry/research/innovation etc.

8.2. INDUSTRY – INSTITUTE INTERACTION CELL

Industry Institute Interaction Cell is to foster the connection between institute and industry. IIC endeavor to reduce the gap between industry-academia by associating with industry experts. The industry takes part in designing curriculum, training students on industry required skills, empowering students and faculty through industrial exposure etc.

8.3. CENTER OF EXCELLENCE (COE)

The Center of Excellence(s) shall be established to improve the core competencies of the students and prepare them to compete in the job market.

- i) CoE shall provide shared environment for collaborative learning and associate with Technology Partners, Training Partners, Industries, Research Groups, and Certification Agencies to reach the end goals.



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- ii) Students and Faculty shall form Teams / affinity groups and create best learning atmosphere.
- iii) Student Chapter / Clubs shall be formed for experiential learning and sharing knowledge in their domains of interest.
- iv) To offer Professional Training and Certification to Internal and External Members.

8.4. EDP POLICY

- i) Entrepreneurship Development Cell closely works with Institution's Innovation Council to promote Entrepreneurship and nurture young entrepreneurs from the college. EDP shall organize entrepreneurial skill development trainings, workshops, FDPs, and create enthuse among the students and staff in entrepreneurship.
- ii) The college shall bear the training and certification cost from case to case to empower the students and staff.
- iii) Faculty shall aim to establish EDP Cells funded by MSME, NextGen, NSIC, We-Hub to promote women entrepreneurs.
- iv) The EDP coordinator works under CIE to promote student entrepreneurs, and coordinate all the activates through IIC Council.
- v) EDP Coordinator shall be a Member of IIC Council to meet the objectives/functions as defines in 8.1.1

9. IPR POLICY

The purpose of IPR Policy is to lay a way to obtain Patents, Designs, Copyrights, Trademarks on potential “Ideas, Innovations, Inventions, Derivations, Developments” of both faculty and students.

- i) All potential ideas eligible for IPR shall follow IPR ethics defines by respective IP Agencies.
- ii) All Eligible Concepts will be supported by IIC to obtain IPR – Both Technical and Financial support.
- iii) A Non-Disclosure Agreement (NDA) shall be executed between College and Owner (Faculty/Student) before proceeding to file IPR. The same type of NDA will be



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executed between Applicant/Owner and IPR Agent / Consultancy if any helping in filing IPR.

- iv) The Owner(s) of the IPR can be author / faculty /students and the applicant/assignee must be institution i.e “**Stanley College of Engineering & Technology for Women**”.
- v) All the owners of any IPR preferably from “Stanley College of Engineering & Technology for Women”, except the IPRs derived from collaborative research / funding research / sponsored research.
- vi) IPRs from Collaborative Research / Sponsored Research / Funding Projects shall follow funding agency guidelines and this Institution Guideline and make an agreement.
- vii) Institution adopted NSIP – National Startup and Innovation Policy as a standard guiding framework to enable Stanley to actively engage students, faculties and staff in innovation and entrepreneurship related activities.
- viii) Revenue generation share will be as per NSIP guidelines or a written agreement at the time of filing IPR.
- ix) Any dispute between Owner and Applicant/Assignee in IPR filing and Revenue sharing will be solved within the institution through Head of the Institution as arbitrator as per Institution Bylaws.

9.1. IPR Incentives

S.No	Description	Incentives
1	IPR Publication	100% Application Fee
2	IPR Granted	Rs.10,000/- Reward

- i) The incentives are subject to availability of budget under R&D Cell / College.
- ii) Any payment in this regard required Head of the Institution, and R&D Council /Head approval.



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10. INTERNAL SEED FUNDING POLICY

Rich experienced and young talented faculty members together pave research and capacity building activities in Stanley.

- i) Institution always encourages proactive faculty and students to work on minor and major research projects, innovative ideas, and business models with necessary financial assistance and support.
- ii) Students and Faculty can utilize internal resources, and infrastructure.

With the recommendations of the concerned experts committee and approval of R&D Cell, Institution extends its support to students and faculty to develop projects and publishes their outcome on suitable platforms for value addition.

S.No	Description	Financial Aid
1	Minor Research Projects (6-12 Months) -Research Potential ideas/ Projects Implementation -Projects for Institution	Rs.5,000-10,000
2	Major Research Projects (12-36 Months) -Support for making Prototype -Proposal Writing & Submission to External Agencies for funding -Training & Capacity Building for the Project implementation	Rs.10,000
3	Business Proposals	Rs.10,000/-
4	Consultancy Projects	Rs.10,000/-
5	Organizing Various events -Conferences -Faculty Development Programs -Workshops & Trainings -Entrepreneurship Development Programs	As per the Budget provision, HoI will take decision

Stanley’s Research Policy - 2020

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Recommendations :

Signature with Date

- 1.
- 2.
- 3.

Dept Coordinator/HoD

Director/Head

Principal



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