



RAJARAJESWARI COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi

Affiliated to the Visvesvaraya Technological University, Belagavi

Criterion: 3.2.1

Academic Year: 2016-2021



3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

INDEX PAGE

SI No.	Particulars	Page No.
1	Report of the events conducted by RRIIC	
1a	2020-21	1 - 75
1b	2019-20	76 - 111
1c	2018-19	112 - 130
1d	2017-18	131 - 138

Principal
Principal
RAJARAJESWARI
COLLEGE OF ENGINEERING
Ramohalli Cross, Bengaluru-74

RAJARAJESWARI COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi

Affiliated to the Visvesvaraya Technological University, Belagavi

Criterion: 3.2.1

Academic Year: 2020-21



2020-21



RajaRajeswari Institution Innovation Council (RRIIC)

MoE Innovation Cell Approved: IC201912297

Annual Report of activities of RRIIC for the Academic year 2020 – 2021

Summary of the Innovation, Entrepreneurship, IPR & Start up related activities conducted during the academic year 2020 - 2021

Sl.No	Date(s)	Name of the Activity	Number of Participants
1	20.6.2020	Webinar on “IPR and IP Strategy”	22
2	17.7.2020	Webinar on MSME – Schemes and Funding Opportunities conducted on 17 th July 2020	122
3	17.7.2020 to 19.7.2020	International Workshop on “Artificial Intelligence and Neural Networks”	99
4	24.7.2020	Prototype Exhibition 2020 – for MHRD NIC 2020	212
5	19.8.2020	Research Webinar on “Writing and Publishing Research Articles in SCI Journals – A Framework”	142
6	28.8.2020	Technical Workshop on “Business Analytics with Tableau, R Programming & Python Programming”	109
7	17.7.2020	Inspirational Talk by Successful International Entrepreneur/Founder	432
8	24.10.2020	Train the Trainer Faculty Development Programme on Entrepreneurship	216
9	20.11.2020	RRIIC Council Meeting - I	40
10	26.11.2020	Workshop on “Innovation and Entrepreneurship as Career Opportunity”	182
11	27.11.2020	Entrepreneurial Talk on “Take your First Step towards Machine Learning for Problem Solving”	257
12	28.11.2020	Workshop on Problem Solving and Ideation	145
13	3.12.2020	Webinar on Intellectual Property Rights (IPR) & Protection	117
14	3.12.2020	Webinar on “Internet of Things (IoT) for Social Change”	104



15	10.12.2020	Webinar on “Importance of Intellectual Property Rights” by RRIIC and Dept of CSE Dept.	123
16	11.12.2020	My Story : Motivation Session by Successful Innovator – Er Rajkumar B.E., Ramji Agro Systems.	129
17	11.12.2020	International Women Empowerment Leadership Talk on “Women Entrepreneurship and Leadership	227
18	15.12.2020	Orientation Session on “National Innovation and Start up Policy 2019”	188
19	17.12.2020	Orientation Session by Innovation Ambassador for the Students on “Innovation & Entrepreneurship”	162
20	18.12.2020	Workshop on “Entrepreneurship Development Phases”	79
21	29.12.2020	Entrepreneurship and Innovation Promotion Programme for the Budding Engineers	102
22	13.1.2021	Virtual Workshop on “Design Validation through Double Diamond Approach”	35
23	27.1.2021	Workshop on “Innovation and Design Thinking”	84
24	30.1.2020	RRIIC Council Meeting – II	32
25	4.2.2021	International Innovation Webinar on “Recent Innovations and Research Trends in Medical Research”	112
26	27.2.2021	Entrepreneurial Leadership Talk “Lean Canvas – A Precursor to Business Model Canvas”	78
27	8.3.2021	National Level Women Empowerment and Leadership Talk on “Women Entrepreneurship & Empowerment” by Women Entrepreneurship Cell	78
28	26.3.2021	International Research and Innovation Webinar on “Innovative Research Ecosystem & Publishing Papers in High Impact Journals”	168
29	27.3.2021	National Level Workshop on IPR and IP Management for Start ups	166



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30	17.4.2021	National Level Workshop on “How to start a Start up – Legal & Ethical Steps”	84
31	22.5.2021	Entrepreneurial Leadership Talk Session on “Converting a Prototype into a Start up”	29
32	29.5.2021	Workshop on “Building a Product Fit into Market”	67
33	19.6.2021	Leadership Talk on Incubators & Accelerators	67
34	29.6.2021	Leadership Talk “Funding Your Start up”	111
35	30.6.2021	RRIIC Council meeting – III	42

IIC Establishment Certificate





1. Webinar on “IPR and IP Strategy” held on 20th June 2020

Objective: The objective of this webinar on “IPR and IP Strategy” is to encourage and mentor the student innovators to conceive an idea, how to convert that idea into an Intellectual Property Right (IPR) and give an exposure on IP Strategy.

Resource Person: Mr.Nithin Sharma,

IP Strategist & Innovation Management – 5G & IoT

Qualcomm, Bangalore.

Number of Student Innovators Participated: 22

The poster is for a live webinar titled "Demystifying Intellectual Property and IP Strategy" featuring Mr. Nitin Sharma, IP Strategist at Qualcomm. It includes logos for RajaRajeswari Group of Institutions, Center for Test and Data Sciences, and the Institution's Innovation Council. It provides Zoom meeting details and mentions that the session will be aired live on YouTube.

Rajarajeswari Group of Institutions
Center for Test and Data Sciences
RajaRajeswari Business Incubator (RRBI)

Mr. Nitin Sharma
IP Strategist, Innovation Management, 5G, IOT
Qualcomm

INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD Initiative)

LIVE WEBINAR
Demystifying Intellectual Property and IP Strategy

Zoom Meeting ID : 939 6006 4650
Password : 244329
2 pm on Saturday, 20 June 2020

First 500 students logging in thro Zoom will get an opportunity to interact with the speaker directly. The session will be aired LIVE on YouTube for the benefit of all other students.

SelectSmart
Digital Collaborative Platform

Poster



DE	Dr. Essaki Muthu (Host, me)	
MP	Muniyandi P, 1990 Mech	
A	Aasha	
A	Abinaya	
DE	Dr. Essaki Muthu 1996EC	
S	Manickam Sundaram	
Invite Mute All Unmute All ...		
JC	Jawahar C	
KV	Karthi VS Mech'18	
S	Manickam Sundaram 93ME	
P9	Prem 91 Batch	
S	Sasikanth	
S	Senthil	
SK	Senthil Kumar	
VS	Velappan Sujatha 2003CS	
AJ	Amutharaj Joyson	

Screenshot of Participants



2. Webinar on MSME – Schemes and Funding Opportunities conducted on 17th July 2020

Objective: The objective of this webinar on “MSME – Schemes and Funding Opportunities” is to encourage and mentor the student innovators to conceive an idea, how to convert that idea into Schemes and Funding IPR) and give an exposure on IP Strategy.

Resource Person: R.Gopinath Rao

Dy Director, Ministry of MSME, Govt of India

Number of Student Innovators Participated: 122

The poster features a central image of the RajaRajeswari College of Engineering building. Above the building, the text reads "RAJARAJESWARI COLLEGE OF ENGINEERING & COLLEGE OF ENGINEERING" with "Bengaluru-74" below each name. Logos for AICTE, NAAC, and ISO are displayed. Below the building image, the text "Jointly Organize Webinar on MSME Schemes and Entrepreneurship" is prominent. To the left, the Resource Person is listed as Mr. R.Gopinath Rao, Dy Director, MSME Development Institute, Bangalore. To the right, the Date is 17th Jul 2020 (Friday) and Time is 3.00 PM. A registration link is provided: <http://forms.gle/J3HvLJVm3MPRoePL7>, with a note that certificates will be provided. At the bottom, coordinators and organizers are listed, including Dr. P. Bhuvaneswari, Mr. S. Vinoth Kumar, Dr. S. Usha, Dr. T.Senthil Kumaran, Dr. T. Chandrashekar, and Dr. M.S.Murali.

RAJARAJESWARI COLLEGE OF ENGINEERING & COLLEGE OF ENGINEERING
Bengaluru-74

Jointly Organize Webinar on MSME Schemes and Entrepreneurship

Resource Person
Mr. R.Gopinath Rao, IEDS
Dy Director
MSME Development Institute
Bangalore

Date: 17th Jul 2020 (Friday)
Time: 3.00 PM

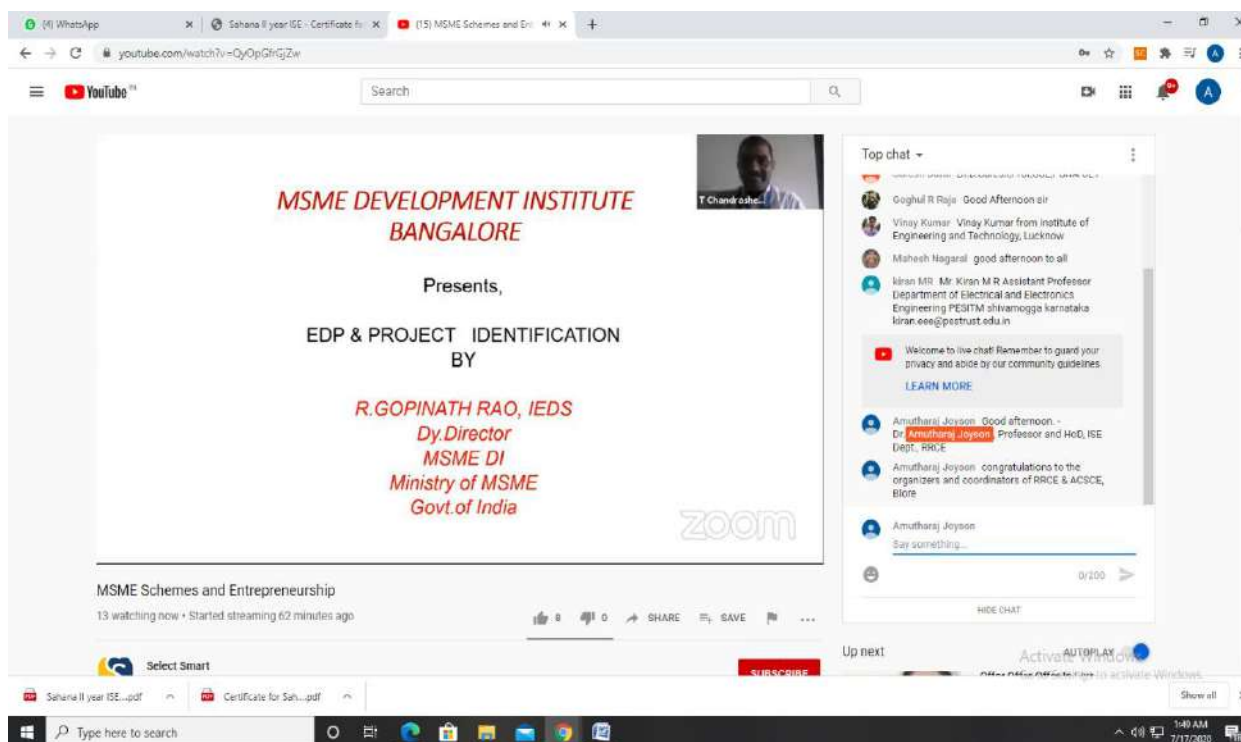
Register Here
<http://forms.gle/J3HvLJVm3MPRoePL7>
***e certificates will be provided**

Coordinators
Dr. P. Bhuvaneswari
Associate Professor
Dept. of ECE, RRCE
Ph: +91-9448394177
Mr. S. Vinoth Kumar
Assistant Professor
Dept. of CSE, ACSCE
Ph: +91-9066500010

Organizers
Dr. S. Usha
Dean Research
RRCE
Dr. T.Senthil Kumaran
Dean Research
ACSCE

Heads of Institutions
Dr. T. Chandrashekar
Principal
RRCE
Dr. M.S.Murali
Principal
ACSCE

Event Poster



Sample Screenshot of the webinar

3. Three day International Virtual Workshop on Artificial Intelligence and Neural Network

Date : 17th July 2020 to 19th July 2020

Time : 6.00 PM to 7.30 PM daily

Resource Persons:

1. Mr. Bishwajit Pal
.NetTech Lead,
Cast Software (India) Pvt. Ltd, Bangalore.
2. Mr. Suman Roy
Senior Project Manager & Developer
Source Edge Software Technologies

Venue : Zoom Meeting Platform

Invitation For : Research Scholars, PG & UG Students and Faculty Members

Number of Participants : 88 Students and 11 Faculty members Total : 99 Participants

Outcome of the Program :

- Introduction to Artificial Intelligence
- Use and Application of AI in day-to-day life
- Application of AI in Industry



RajaRajeswari College of Engineering



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Demo and Hands on session in Tensor Flow
Demo on existing platforms
Demo on Planetary Exploration Vehicle Development Platform
Autonomous Vehicle Technology and Trends
Working Principle of Autonomous Vehicles
Demo and Handson session – CARLA – Simulation tool
Neural Network Introduction and Application
Deep Learning and explanation
Framework for Deep Learning
End to End Machine Learning
Complete Stack Comparison : Azure Vs AWS
Industries working on AI based application development & Career Opportunities

Workshop Poster

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Department of Information Science and Engineering


COMED-K: E099 CET Code: E145

International Virtual Workshop on "Artificial Intelligence & Neural Networks"

Date : 17th -19th July 2020, Time : 6.00 P.M – 7.30 P.M

Resource Persons


Mr. Bishwajit Pal
NetTech Lead,
Cast Software (India) Pvt Ltd,


Mr. Suman Roy
Senior Project Manager & Developer
Source Edge Software Technologies



Registration Link: <https://forms.gle/Sg1zHkN75jEP2stX8> **Dr. T. Chandrashekar, Principal**

E-Certificate will be given to registered & attended Participants **Dr. J. Amutharaj, Professor & HoD – ISE**
Mrs. Neha Singhal, Mr. Dinesh M & Mrs. Ashwini R

#14, Ramohalli Cross, Kumbalgodu, Mysore Road, Bengaluru-560074
Contact: +91-90088-45678 Ph: +91-80-2843 7124 / 7375
E-Mail: admission@rrce.org Website: www.rrce.org



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4. Prototype Exhibition 2020

Date : 24.7.2020 Time : 10.00 A.M.

Objective: To shortlist the Top 5 Prototypes and teams for National Innovation Contest NIC2020.



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RajaRajeswari Institution Innovation Council (RRIIC)

COMED-K: E099 CET Code: E145

Prototype Exhibition / Proof of Concept (PoC) Competition

Funding Opportunity from MHRD Innovation Cell (MIC)

- 1. Prototype/working Model – Upto 10.00 Lakhs**
- 2. Proof of Concept (PoC) – Upto 4.00 Lakhs**

Date : 24.7.2020 (Friday) Time : 10.00 A.M.

Best Prototypes & Proof of Concepts(PoCs) will be submitted to National Innovation Contest 2020 organized by MHRD Innovation Cell(MIC).

Eligibility : Student studying B.E. / M.C.A /M.Tech. in RRCE

E-Certificate will be given to the registered and attended participants.

Faculty mentors / Supervisors will be given appreciation certificate.

Industry Connect for Evaluation & Mentoring : Centre for Test and Data Science

Awards / Appreciations :

First Prize : Rs. 5000 + Shield

Second Prize : Rs. 3000 + Shield

Third Prize : Rs 2000 + Shield

Organizing Committee :

1. Dr.Sheba Selvam, Assoc. Prof. – CSE
2. Dr.Satheesha V, Assoc. Prof. – Mech. Engineering
3. Dr.D.Sobya, Assoc. Prof. – ECE
4. Mr. Pavankumar, Asst. Prof. – EEE
5. Mrs. Rajeswari. S, Asst. Prof. – ISE
6. Ms. Shalini, Asst. Prof. - Civil Engineering

Tech. Support & Mentoring by



Dr.C.Ramesh
Convener

Dr.J.Amutharaj
Co-ordinator

Dr.T.Chandrashekar
Principal

Number of teams Participated: 65 (212 Students)

Sl. No	Department	No. of participated	Prototypes	No. of Proof of Concepts	Total number of Teams/batches participated
1	Civil Engg.	2		3	5
2	ISE	5		6	11
3	Mech. Engg.	5		6	11
4	EEE	11		1	12
5	CSE	6		11	17
6	ECE	6		3	9
Grand Total		35		30	65

Sample Photographs



Outcome: Top 5 Teams shortlisted and recommended for National Innovation Context (NIC 2020).



The following Top 5 Teams were shortlisted in the Prototype Exhibition 2020 organized by RR Institution Innovation Council (RRIIC) on 24th July 2020. These prototypes are nominated for National Innovation Contest 2020 organized by MHRD IIC during September 2020.

Sl.No	Title of the Prototype	Name of the Team Lead	Mentor	Position	Prize & Award
1	3D Tracking of an Individual using Augmented Reality : AR Tag	Mr. Arpit Singh CSE Dept. & Team	Dr.Sheba Selvam, ASP - CSE	I	Rs. 5000 Cash, Shield & Nominated for National Innovation Contest (NIC 2020)
2	Smart and Green Fire Detection System with Image Processing	Ms. K.S. Ksheeraja CSE Dept. & Team	Dr.Rajesh K.S ASP - CSE	II	Rs. 3000 Cash, Shield & Nominated for National Innovation Contest(NIC 2020)
3	Infiltration Studies on different soils under different soil conditions.	Dilip Kumar M Civil Engineering & Team	Prof. Bhaskara AN Asst. Prof., Civil Engineering Dept.	III	Rs. 2000 Cash, Shield & Nominated for National Innovation Contest(NIC 2020)
4	VIRTUAL EYE: An Intelligent Assistant for Visually Impaired using Artificial Intelligence (AI).	Ms. Nidhi V Hegde ISE Dept. & Team	Prof. Neha Singhal, Asst. Prof. - ISE	IV	Nominated for National Innovation Contest (NIC 2020)
5	IoT Controlled Eye Shooter	Mr.MohanKumar P EEE – Dept & Team	Mr.Pavankumar KR. Asst. Prof., - EEE	V	Nominated for National Innovation Contest (NIC 2020)

5. Research Webinar on “Writing and Publishing Research Articles in SCI Journals – A Framework”

Date : 19th August 2020 (11.00 A.M to 12.30 PM)

RESOURCE PERSON:

Dr.P. PalPandian, Ph.D,

Program Coordinator – Robotics and Mechatronics,

School of Engineering & Technology,

CHRIST (Deemed to be University), Bangalore.

Venue : Zoom Meeting & Youtube Live

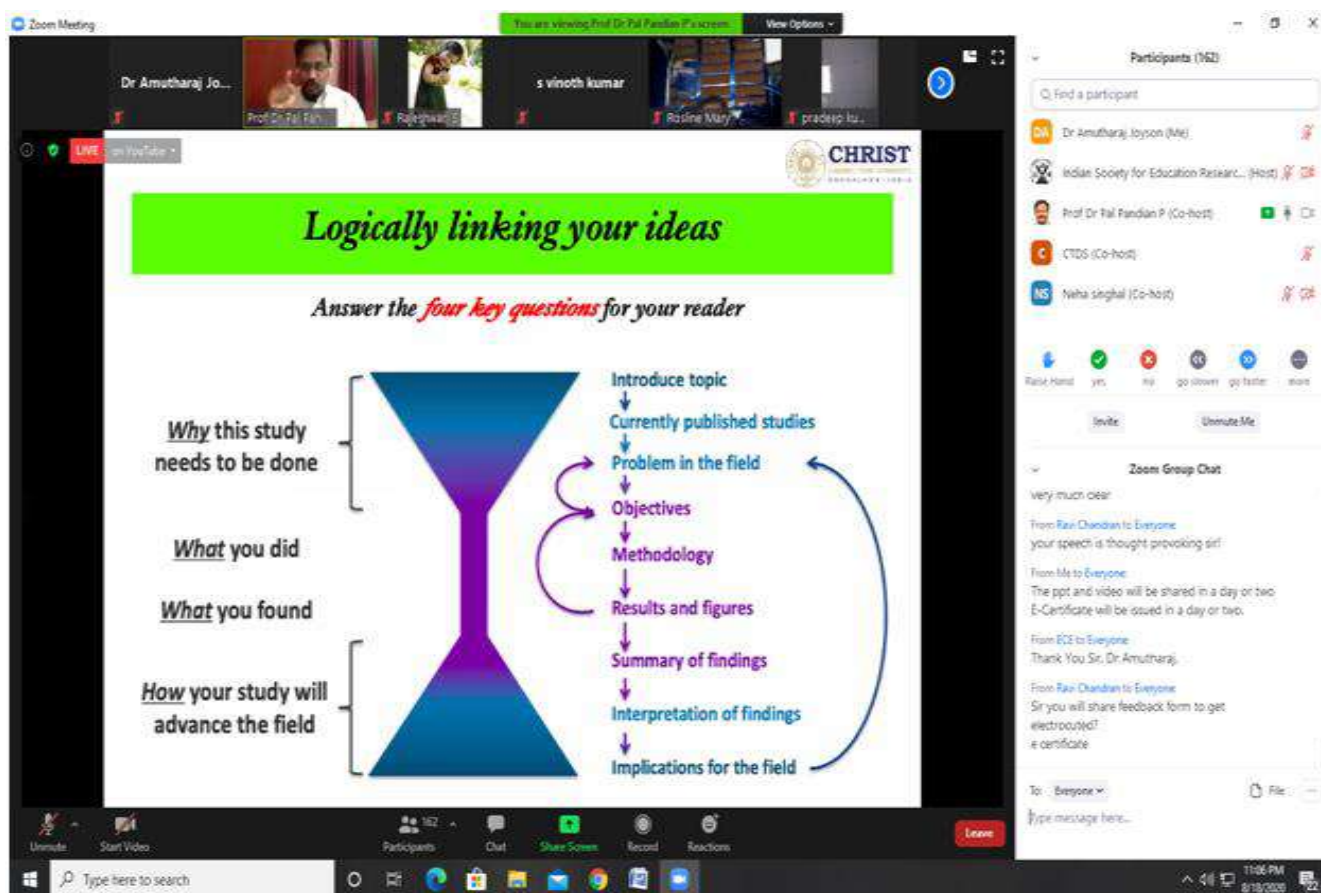
Target Participants :

Research Scholars, Research Supervisors, Faculty Members and PG & UG Students

Number of Participants: 142

OUTCOME OF THE PROGRAM :

- Need for Publishing Research Articles & paper
- How to prepare before writing the manuscript & Data gathering
- Effective Written Language to improve the readability and understanding
- Practice scientific manuscript writing, proof reading and English correction
- Structure of Scientific and Technical Paper
- Choosing appropriate title and writing better abstract, Introduction
- Presenting Methodology & Experimentation Sections of the paper/manuscript
- How to Present the Results and Discussions section of the paper/manuscript
- Check for logical linking of objective, abstract, Methodology, Experimental Analysis, Results and Discussions



Logically linking your ideas

Answer the *four key questions* for your reader

Why this study needs to be done

What you did

What you found

How your study will advance the field

Introduce topic
↓
Currently published studies
↓
Problem in the field
↓
Objectives
↓
Methodology
↓
Results and figures
↓
Summary of findings
↓
Interpretation of findings
↓
Implications for the field

Screenshot of the Research Webinar



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Research & Innovation Centre of RRCE

&

RajaRajeswari Institution Innovation Council (RRIIC) Jointly Organizes a Research & Innovation Webinar on

"Writing and Publishing Research Articles in SCI Journals – A Framework"

Date : 19th August 2020 | Time : 11:00. A.M to 12:30 P.M



Resource Person

PROF. DR. P. PAL PANDIAN, Ph.D.

PROGRAM COORDINATOR FOR ROBOTICS AND MECHATRONICS
SCHOOL OF ENGINEERING AND TECHNOLOGY
CHRIST (DEEMED TO BE UNIVERSITY) BANGALORE

Organizers

Dr. S Usha, Head -Dept. of CSE, Dean-Research

Dr. J Amutharaj, Professor & Head - Dept. of ISE

Staff Co-ordinators

Dr. T Kamalraj, Associate Professor, Dept. of CSE

Prof. Neha Singhal, Assistant Professor, Dept. of ISE

Prof. J. Prabakaran, Assistant Professor, Dept. of CSE

Head of the Institution

Dr.T.Chandrashekar

Principal

Poster



6. Technical Workshop on “Business Analytics with Tableau, R Programming & Python Programming”

Date : 28th August 2020 Time : 11.00 A.M. to 12.30 P.M.

Resource Person:

Mr.Swarup Dutta,

Team Lead & Coach,

Quest Skills, New Delhi

Target Audience: Engineering / MCA / MBA students & Faculty members

Number of Students Attended: 102

Number of Faculty members attended: 7

Total Number of Participants: 109

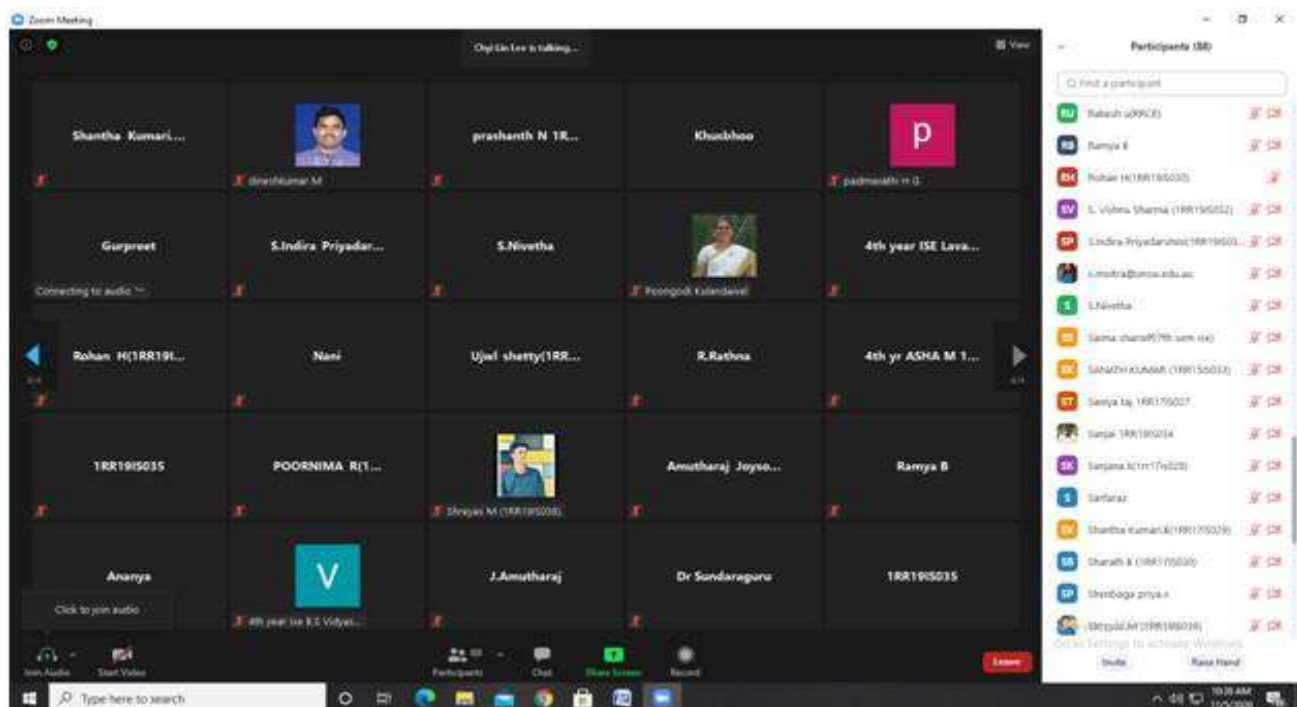
Outcome:

This workshop provided hands on session on "**Business Analytics with Tableau, R Programming & Python Programming**" for the Entrepreneurs to assess the business potential based on market analysis. Students learned about the basics of Business Analytics and Business Analytics and Data Science for solving business challenges.

1. Data Science and Big Data Analytics
2. Applications of Data Science & usage in the business
3. Business Analytics & its widespread use in the online business
4. Use of Tableau in business analytics
5. Business Analytics with R Programming
6. Business Analytics using Python



Workshop Poster – Business Analytics



Screenshot of the Workshop

7. Inspirational Talk by Successful International Entrepreneur/Founder



Date of the Session : 17th July 2020

Resource Person:

Mr. M. Dhananjeyan,

Managing Director,

Focus Engineering, India & Focus Technologies LLC, Dubai.

Virtual Platform : Zoom Platform

Join Zoom Meeting

<https://zoom.us/j/93763254595?pwd=N3VZaUJVTGZRbno2MG9Bc3ZoeDI3dz09>

Meeting ID: 937 6325 4595

Password: 4436

Report : Department of Mechanical Engineering & RajaRajeswari Institution Innovation Council (RRIIC) has conducted an Inspirational talk on “How son of a Van driver, Student Member, Become a Global Entrepreneur” – Sharing the amazing success story from a Mechanical Engineer to an Entrepreneur on 17th July 2020 from 10.00 A.M. to 12.30 P.M.

Outcome :

Mr. M. Dhananjeyan narrated few of the promising areas in which Engineering graduates to work on to become an Entrepreneur in the near future. Student & faculty members are given orientation on best practices to be followed in the start up companies, how to mobilize the capital fund / seed fund, narrated about better team building which in turn build the enterprise.

Number of Participants: 432



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How Son of Van Driver,
Student Member,
Become a Global Entrepreneur.

*"Sharing of Amazing Journey from
Mechanical Engineer
to an Entrepreneur"*



Mr. M. Dhananjayan
Managing Director
Focus Engineering India,
Focus Technologies, LLC, Dubai.

Friday
17th July 2020 10.30 a.m to 12 Noon

No Registration Fee - a certificate to all the participants
The registration link is: <https://forms.gle/5W5vL30W0G5u3Vat>

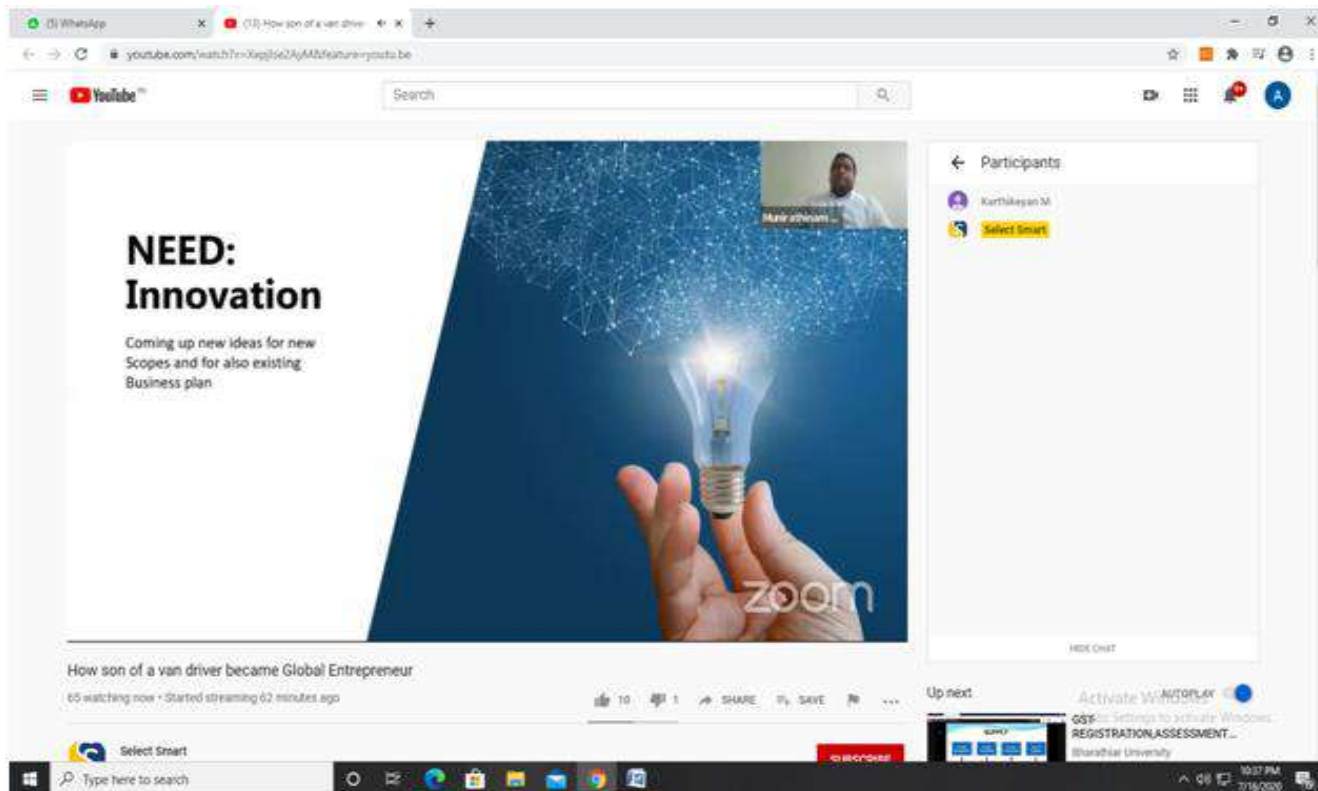
CET Code: E145 COMED-K: E099
For admission  +91 90008 45678, 0891-28437124
E-mail: admission@rrec.org www.rrec.org



#14, Ramohalli Cross,

Poster

Sample Screenshots of the Event



Sample screenshots of the webinar



8. Train the Trainer Faculty Development Programme on Entrepreneurship :

RajaRajeswari Institution Innovation Council (RRIIC) & Department of Mechanical Engineering have jointly organized a Motivation Session on **“TRAIN THE TRAINER FDP on “To Mould the Next Generation Learners to become an Entrepreneur”**

Date & Time: 24th October 2020 between 10.30 A.M. to 11.30 A.M.

OBJECTIVE: Students and faculty members are brainstormed on How to Apply Engineering Knowledge to innovate and transform into an entrepreneur or services to solve societal problems, How to convert the new idea into prototype and register or filed as Patent through IPR Policy of Controller of Patents office, Govt of India, Steps involved in making the prototype into a product to be saleable in the market. Resource Person also narrated the difference among Trademark, Copyright protection and Patent.

Number of Participants : 216

The poster is for a 'Train the Trainer' Faculty Development Programme (FDP) on Entrepreneurship. It features the RajaRajeswari College of Engineering logo and name at the top, along with accreditation logos (NBA, NAAC 'A', ISO 9001:2015, AICTE). The text provides the college's address (#14, Ramohalli Cross, Kumbalgodu Post, Mysore Road, Bangalore – 560 074) and its affiliations (VTU, Belagavi; AICTE, New Delhi; Govt. of Karnataka). It lists the CET Code (E145), COMED-K Code (E099), and PGCET Code (T858). The event is organized by the Department of Mechanical Engineering and the RRIIC. The title of the session is 'Train the trainer to mould the next generation learners to become an entrepreneur'. A portrait of the Resource Person, Mr. M. Dhananjayan, is shown, along with his title 'Managing Director - Focus Engineering India, Focus Technologies LLC, Dubai.' The registration link is provided as <https://forms.gle/jqQBYSNyTdzUXdq8>. The date and time are 24th October 2020 (Saturday) from 10:30am to 11:30am. The poster also lists the Coordinator (Dr. M. Karthikeyan, Professor, Dept. of MECH) and two Organisers (Dr. J. Amutharaj, HOD, Dept. of ISE; Dr. C. Ramesh, HOD, Dept. of Mech). The Head of the Institution, Dr. T. Chandrashekar, is also mentioned.

RAJARAJESWARI COLLEGE OF ENGINEERING
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Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi and Govt. of Karnataka
CET CODE : E145 / COMED-K: E099 / PGCET : T858
Department of Mechanical Engineering & RR Institution Innovation Council(RRIIC)
Presents Entrepreneurial Talk on
“Train the trainer to mould the next generation learners to become an entrepreneur”

Resource Person
Mr. M. Dhananjayan
Managing Director - Focus Engineering India,
Focus Technologies LLC, Dubai.

Registration Here: <https://forms.gle/jqQBYSNyTdzUXdq8>
Date: 24th October 2020(Saturday) Time: 10:30am to 11:30am

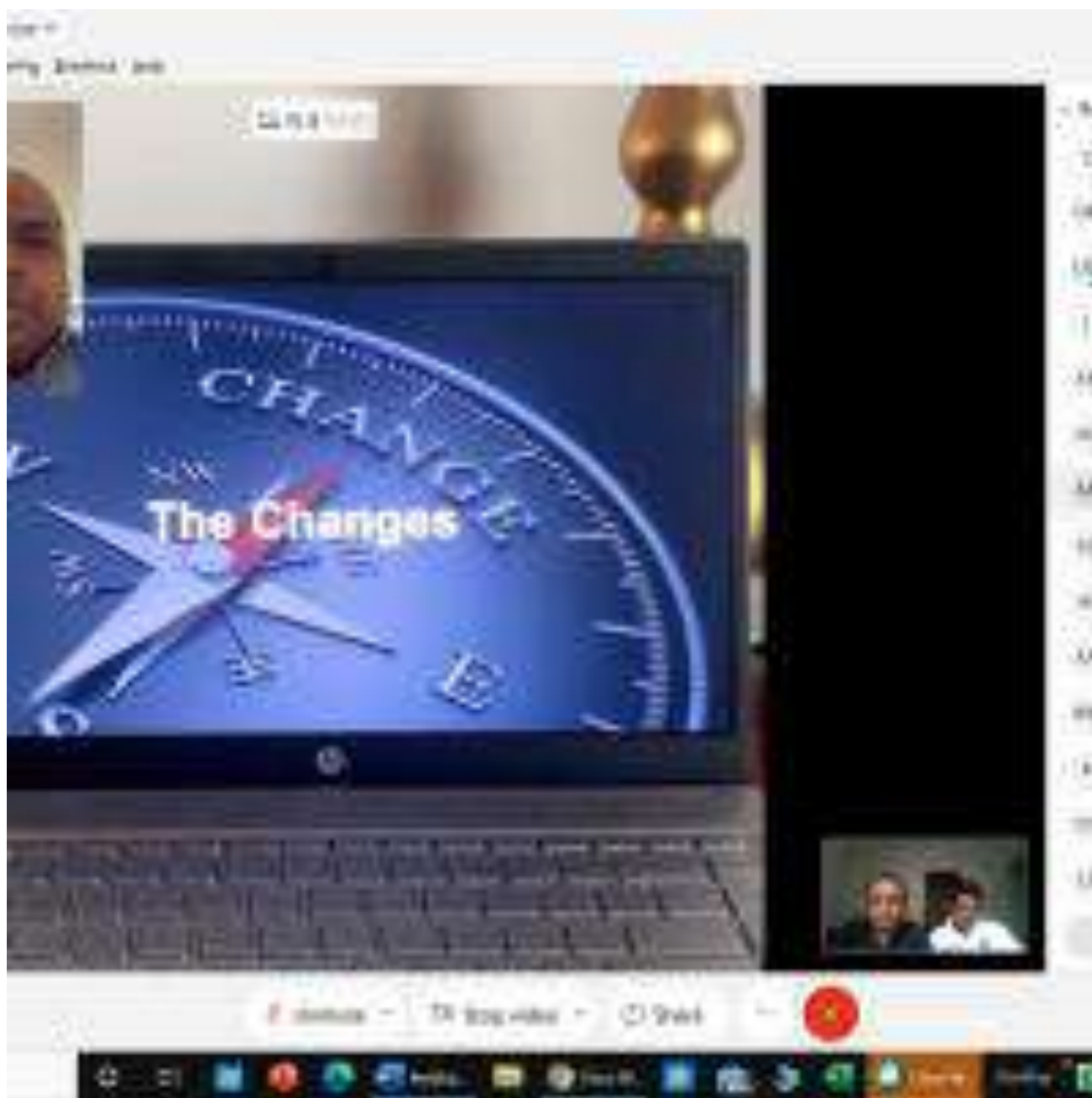
Coordinator
Dr.M. Karthikeyan
Professor
Dept. of MECH

Organiser
Dr.J. Amutharaj
HOD
Dept. of ISE

Organiser
Dr.C. Ramesh
HOD
Dept. of Mech.

Head of the Institution
Dr.T. Chandrashekar
Principal

Poster



Screenshot of the Online Entrepreneurship FDP on Train the Trainer

9. RRIIC Council Meeting - I

The first meeting of Institution's Innovation Council (IIC) of **RajaRajeswari College of Engineering, Bangalore** is conducted on **20th November 2020** at **10:30 A.M.** in the Board Room of RajaRajeswari College of Engineering, Bengaluru.

Number of Faculty members attended: 23

Number of Student members attended Online Meeting : 17



Council Meeting – I on 20th Nov 2020

10. Workshop on “Entrepreneurship and Innovation” as career Opportunity :

RajaRajeswari Institution Innovation Council (RRIIC) is conducting a **Virtual Workshop on “Entrepreneurship and Innovation as career Opportunity”** in association with RR Business Incubator & Pongu Ventures, Chennai on **Saturday, 26th November 2020. Timing between 6.00 P.M. - 7.30 P.M.**

Resource Person:

Dr.G.Vinoth, B.E,M.S,Ph.D

Startup Venture Designer,

Pongu Ventures, Chennai

Venue : Zoom Platform

zoom Id : 8634386115

Password : rrbi

Objective: Students and faculty members are given orientation on Entrepreneurship and Innovation and brainstorming on Critical and creative thinking skills, Practical Entrepreneurial skills and success stories of Global, National, Local and Alumni Entrepreneurs. Student & faculty members are motivated to distinguish between Entrepreneurship as career choice or by Chance to become an Entrepreneur.

Number of Students Attended the Workshop: 160

Number of Faculty members attended: 22



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Total Number of Participants: 182

**RajaRajeswari College of Engineering, Kumbalgodu, Bengaluru.**

**INSTITUTION'S INNOVATION COUNCIL**
(Ministry of HRD Initiative)



RR Institution Innovation Council (RRIIC)





Resource Person

Dr.G.Vinoth, B.E, M.S, Ph.D

Startup Venture Designer

Topic:

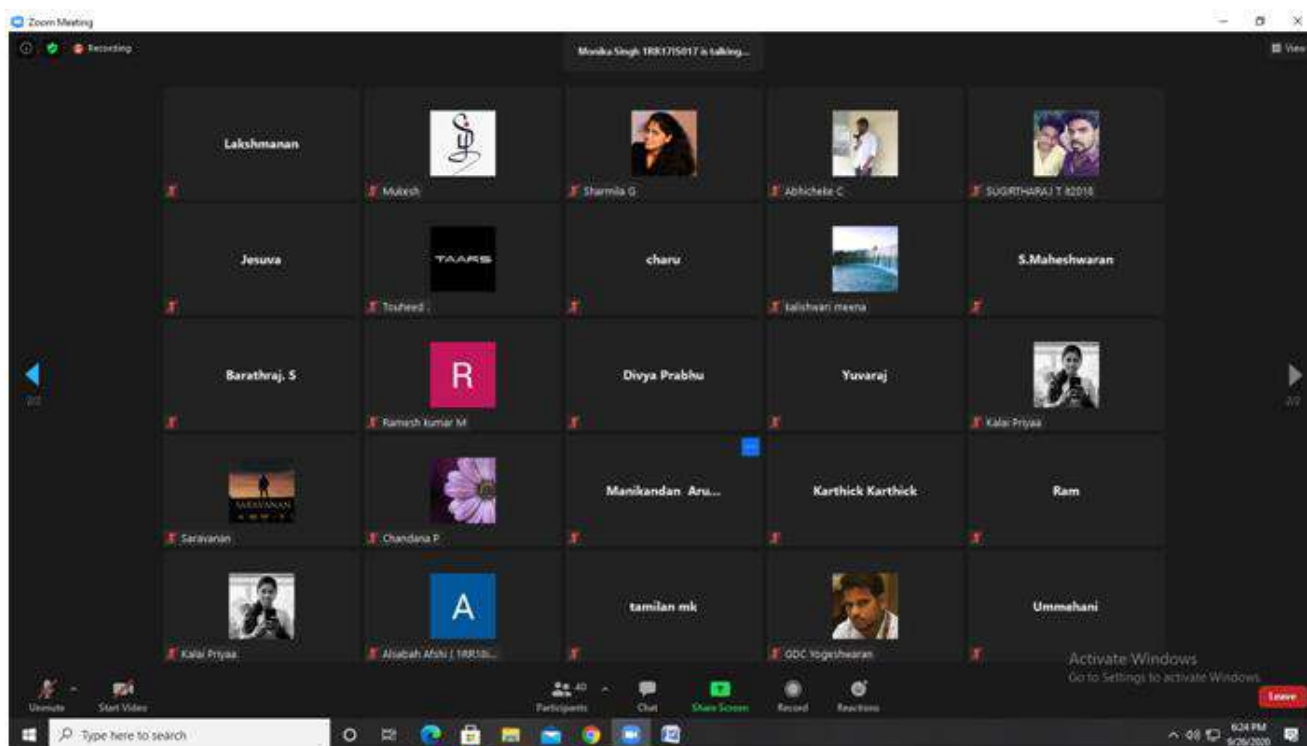
Entrepreneurship and Innovation as Career opportunity

on Thu, 26th Nov at 6pm - 7pm

 **Id : 8634386115**
Password : rrbi

Dr.C.Ramesh, Convener - RRIIC	Organizing Committee Dr.J.Amutharaj, M.E.Ph.D, FIE President - RRIIC	Dr.T.Chandrashekar, M.Tech., Ph.D Principal
Dr.S.M.Vijaya, Associate Professor - ECE	Staff Coordinators Mrs.Sincy Kuruvilla, AP - EEE	Mr.Ravikumar, Asst.Prof.,Mech.Engg

Poster



Screenshot of the Online Workshop

11. **Entrepreneurial Talk on “Take your First Step towards Machine Learning for Problem Solving”**

RajaRajeswari Institution Innovation Council (RRIIC) & Department of CSE of RRCE are jointly organized Virtual **Entrepreneurial Talk on “Take your First Step towards Machine Learning for Problem Solving”**

Date & Timing: **27th November 2020 Friday & 11.00 A.M. - 12.00 P.M.**

Resource Person:

Dr. T.Sujatha,
Associate Professor, CSE,
Hindustan Institute of Technology,
Coimbatore, TamilNadu

Venue : Microsoft Teams

Description: Resource Person Dr.T.Sujatha has presented an Entrepreneurial Talk on “Machine Learning for Problem Solving”. She has presented various machine learning methods and techniques and how those techniques will be useful for solving societal problems. She narrated little recent advancement using machine learning algorithms.

Number of Students Attended the Workshop: 222

Number of Faculty members attended: 35

Total No of Participants : 257



RAJARAJESWARI COLLEGE OF ENGINEERING

#14, Ramohalli Cross, Kumbalagodu Post, Mysore Road, Bangalore – 560 074.
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CET CODE: E145 / COMED-K: E099 / PG CET: T858

Department of Computer Science & Engineering

Presents Entrepreneurial Talk on
“Take the First Step towards Machine Learning”





Resource Person
Dr.T Sujatha
Associate Professor,
Department of Computer Science and Engineering,
Hindusthan Institute of Technology
Coimbatore.

Date: 27th November 2020(Friday)
Time: 11:00am to 12:00pm

Coordinators
Mrs. Devi T
Faculty Coordinator

Coordinator
Mrs. Shreelakshmi K J
Faculty Coordinator

Organizer
Dr.S.Usha
Dean Research, HoD

Head of the Institution
Dr.T.Chandrashekar
Principal

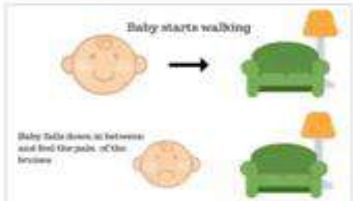
Poster of the Entrepreneurial Talk

Reinforcement Learning

Supervised learning is "teach by **example**":
Here's some examples, now learn patterns in these example.


Reinforcement learning is "teach by **experience**": Here's a world, now learn patterns by exploring it.

Baby starts walking



Failure

Baby starts walking



Success

Participants

Type a name

- Shreelakshmi K J
- ANKASH
- AJAY
- ANJALI
- APARNA
- argun
- ACHWINI
- B S DARSHITH
- SHRUVANA
- SHRUVANESHWAR
- CHANDANA
- CHANDANA

Sample Screenshot of the Entrepreneurial Talk



12. WORKSHOP ON “PROBLEM SOLVING AND IDEATHON”

Workshop on 'Problem Solving and Ideation' : RajaRajeswari Institution Innovation Council (RRIIC) is conducting a Virtual Workshop on 'Problem Solving and Ideation' in association with RR Business Incubator & Pongu Ventures, Chennai.

Date & Timing: 28th November 2020 Saturday, 9.30 A.M. - 10.30 A.M.

Resource Person:

Dr.G.Vinoth, B.E,M.S,Ph.D (USA)

Startup Venture Designer,

Pongu Ventures, Chennai.

Total Number of Participants: 145

OBJECTIVE: Students and faculty members are brainstorming on Problem Identification and assess the business potential, solution methodologies with hands on session on Ideation process. Student & faculty members are given orientation on best practices to be followed in ideation and better team building.



RajaRajeswari College of Engineering, Kumbalagodu, Bengaluru.



RR Institution Innovation Council (RRIIC)



Resource Person

Dr.G.Vinoth, B.E, M.S, Ph.D

Startup Venture Designer

Topic:

Problem Solving and Ideation



Id : 8634386115

Password : rrbi

on Sat, 28th Nov at 9:30am - 10:30am

Dr D. Sobya

Start up Coordinator

Dr.C.Ramesh

Convener-RRIIC

Organizing Committee

Dr.J.Amutharaj, M.E.Ph.D, FIE

President - RRIIC

Dr.T.Chandrashekar, M.Tech., Ph.D

Principal

Staff Coordinators

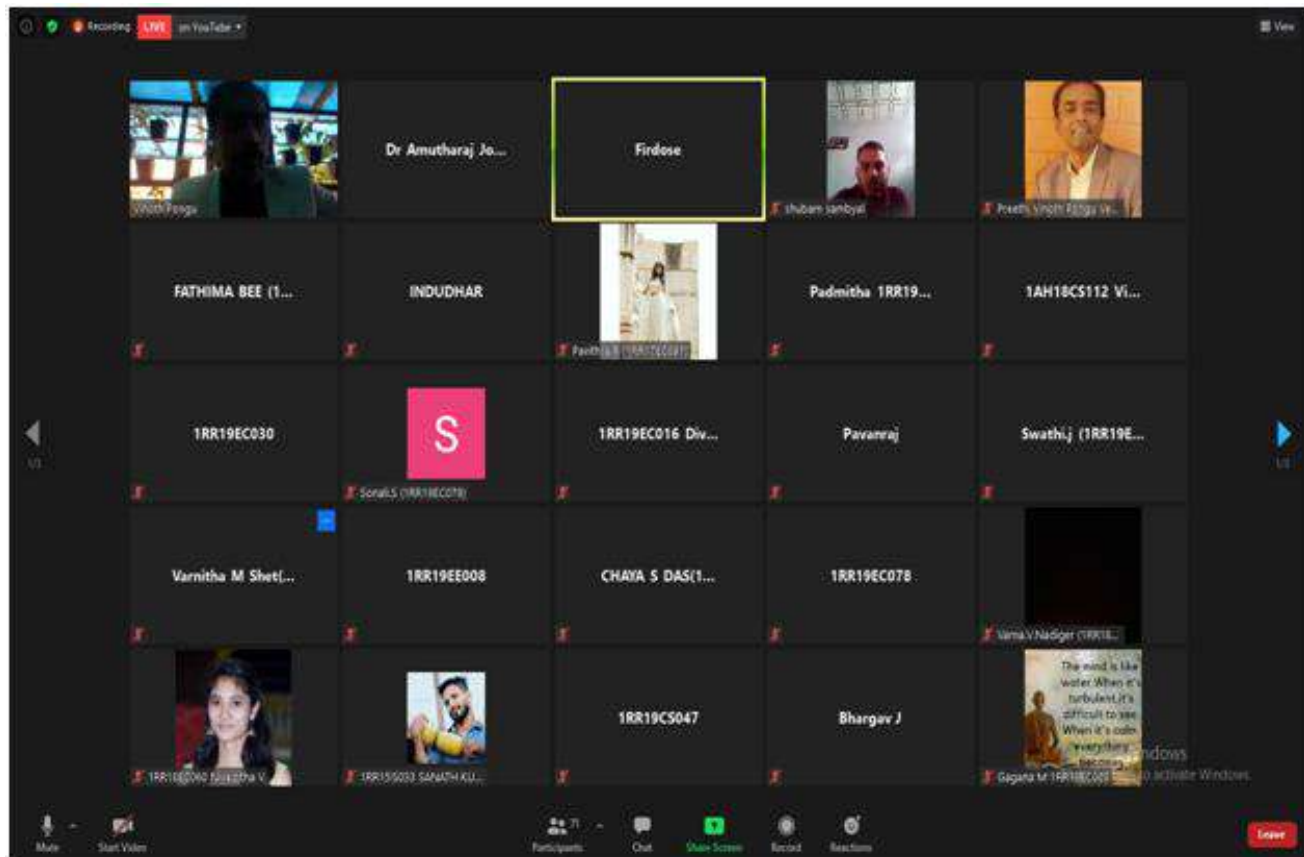
Mrs. DEVI T, AP - CSE,

Ms.VEENA N, AP - CIVIL,

Mrs.NEHA SINGHAL, AP - ISE

Dr.SUMITHA MANOJ, ASP - ECE

Poster



Screenshots of the Online Workshop



Screenshots of the Online Workshop



13. Webinar on Intellectual Property Rights (IPR) & Protection :

RajaRajeswari Institution Innovation Council (RRIIC) has organized a Webinar on “Intellectual Property Rights (IPR) – Protection” in association with Pongu Ventures, Chennai.

Date & Time: 3rd December 2020 & 10.00 A.M. – 11.30 A.M.

Resource Person:

Dr.K.Aravinthan M.E., Ph.D,

Associate Professor – Civil Engg.

RajaRajeswari College of Engineering

Bangalore – 560074

OBJECTIVE: Students and faculty members are brainstormed on How to Apply Engineering Knowledge to innovate new product or services to solve societal problems, How to convert the new idea into prototype and register or filed as Patent through IPR Policy of Controller of Patents office, Govt of India, Steps involved in making the prototype into a product to be saleable in the market. Resource Person also narrated the difference among Trademark, Copyright protection and Patent.

Number of student Participants: 102

Faculty members attended:15

Number of Participants:117

RajaRajeswari College of Engineering, Kumbalgodu, Bengaluru.

RR Institution Innovation Council (RRIIC)

MoE approved : ICIC201912297

Resource Person

Dr.K.Aravinthan

Associate Professor-Civil Engg,RRCE

Topic:

Intellectual Property Rights (IPR)-Protection

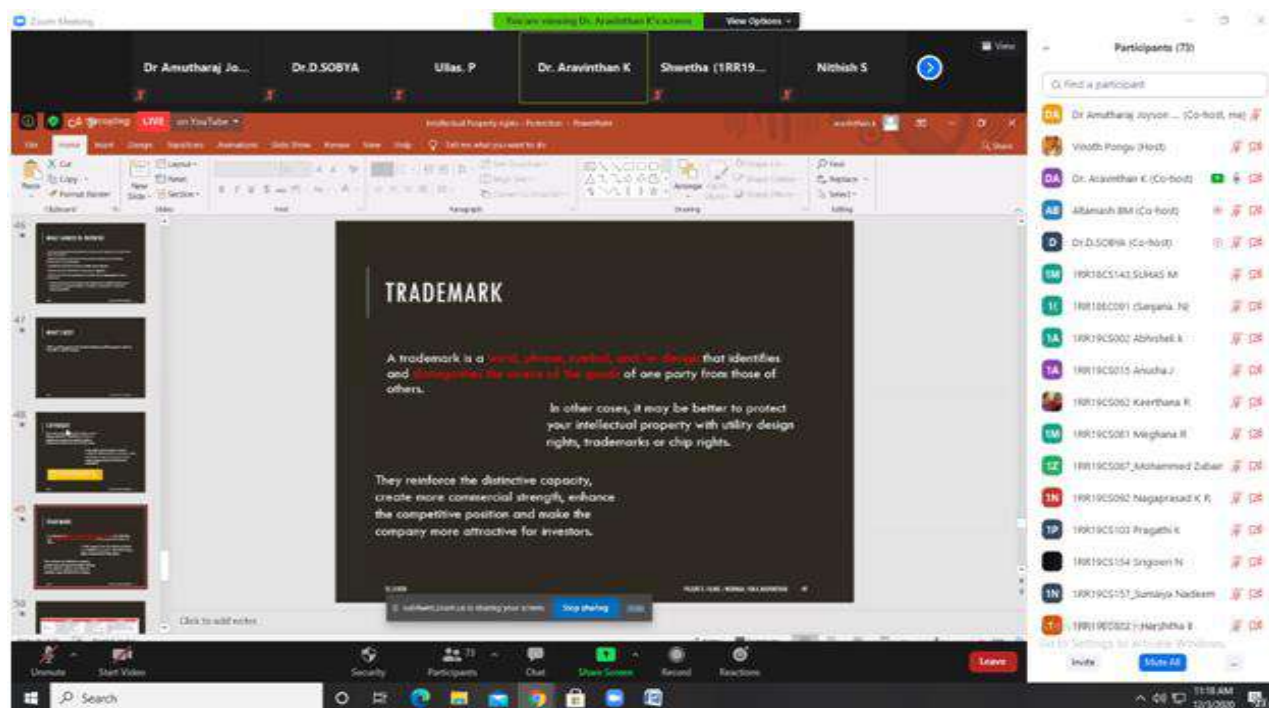
zoom Id : 8634386115

Password : rrbi

on Thur, 3rd Dec at 10:00am - 11:30am

<p>Organizing Committee</p>			
Dr.Sreenivasalu Reddy	Dr. S. Usha	Dr.J.Amutharaj, M.E.Ph.D, FIE	Dr.T.Chandrashekar, M.Tech., Ph.D
IPR Co-ordinator - RRIIC	Dean, Research&Innovation	President - RRIIC	Principal
<p>Staff Coordinators</p>			
Ms. Veena N, AP - CIVIL,	Mr.Pavankumar K.R., AP - EEE	Mrs. Shreelakshmi K. J , AP - CSE	Dr.Jyothi A.P , AP - ECE

Poster



Screenshots of the Online Webinar on IPR

14. Webinar on "Internet of Things (IoT) for Social Change" :

RajaRajeswari Institution Innovation Council (#RRIIC) & Department of Information Science and Engineering of RRCE jointly organized a Webinar on "Internet of Things (IoT) for Social Change" in association with Pongu Ventures, Chennai

Date : 3rd December 2020 during 6.00 P.M. – 7.00 P.M.

Resource Person:

Mrs. Neha Singhal

Asst. Professor – ISE Dept.

RajaRajeswari College of Engineering

Bangalore - 560074

Zoom Meeting ID: 893 0909 4561

Passcode : Rrceise

Description: Students and faculty members are delivered about the basics of Internet of Things (IoT) and different applications of IoT to improve the social life style of people around the world. Resource Person narrated how IoT can be useful for building innovative House Automation System(Smart Home), Smart City, Smart Healthcare and Smart Farming etc.. .


Number of Students Attended the Workshop: 72

Number of Faculty members attended: 32

Total Number of Participants : 104

Poster

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Department of Information Science and Engineering

Resource Person
Prof. Neha Singhal
 Asst. Professor - ISE

Topic:
Internet of Things (IoT) for Innovation and Social Change

on Thur, 3rd Dec at 6:00pm- 7:00pm

MoE approved : ICIC201912297

INSTITUTION'S INNOVATION COUNCIL
 (Ministry of HRD Initiative)

Zoom Id : 893 0909 4561
Password : Rrceise

Organizing Committee			
Dr.Sumitha Manoj Internship Co-ordinator-RRIC	Dr.C.Ramesh Convener-RRIC	Dr.J.Amutharaj, M.E.Ph.D, FIE President - RRIIC	Dr.T.Chandrashekar, M.Tech., Ph.D Principal
Staff Coordinators			
Mrs. T.DEVI , AP - CSE,	Mr Ravikumar , AP - MECH,	Dr. Jyothi A.P, AP - ECE	



Sample Screenshots – Application of IoT in Smart Farming



15. Webinar on “Importance of Intellectual Property Rights”

Date: 10th December 2020 **Time :** 11:00.A.M to 12:00.P.M

Resource Person:

Dr. A. Neela Madheshwari,
Professor, CSE,
Mahindra Engineering College, Namakkal.

Venue: MS Teams online platform

Target Participants : CSE, Faculties, Research scholars and students.

Faculty Coordinator: Dr. Sivakumar D, Dr. Janaki K, Prof. Devi T, Prof. Shreelakshmi K J

Number of Students Participated: 106

Number of Faculty participated: 17

Total : 123

Outcome of the Program:

- ❖ Essential Elements of Intellectual Property Rights.
- ❖ Patents for inventions, Copyrights for material, Trademarks for broad identity and Trade secrets.
- ❖ Intellectual Property is an asset that can be bought or sold, licensed and exchanged.

Poster

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CET CODE: E145 / COMED-K: E099 / PGCET: T858

Department of Computer Science & Engineering
Presents Entrepreneurial Talk on
Importance of Intellectual Property Rights

Date
10th December 2020(Thursday)

Time
11:00am to 12:00pm

Resource Person
Dr. A. Neela Madheshwari
Professor,
Dept. of Computer Science and Engineering,
Mahindra Engineering College,
Namakkal.

Coordinator
Dr. Janaki K
Faculty Coordinator

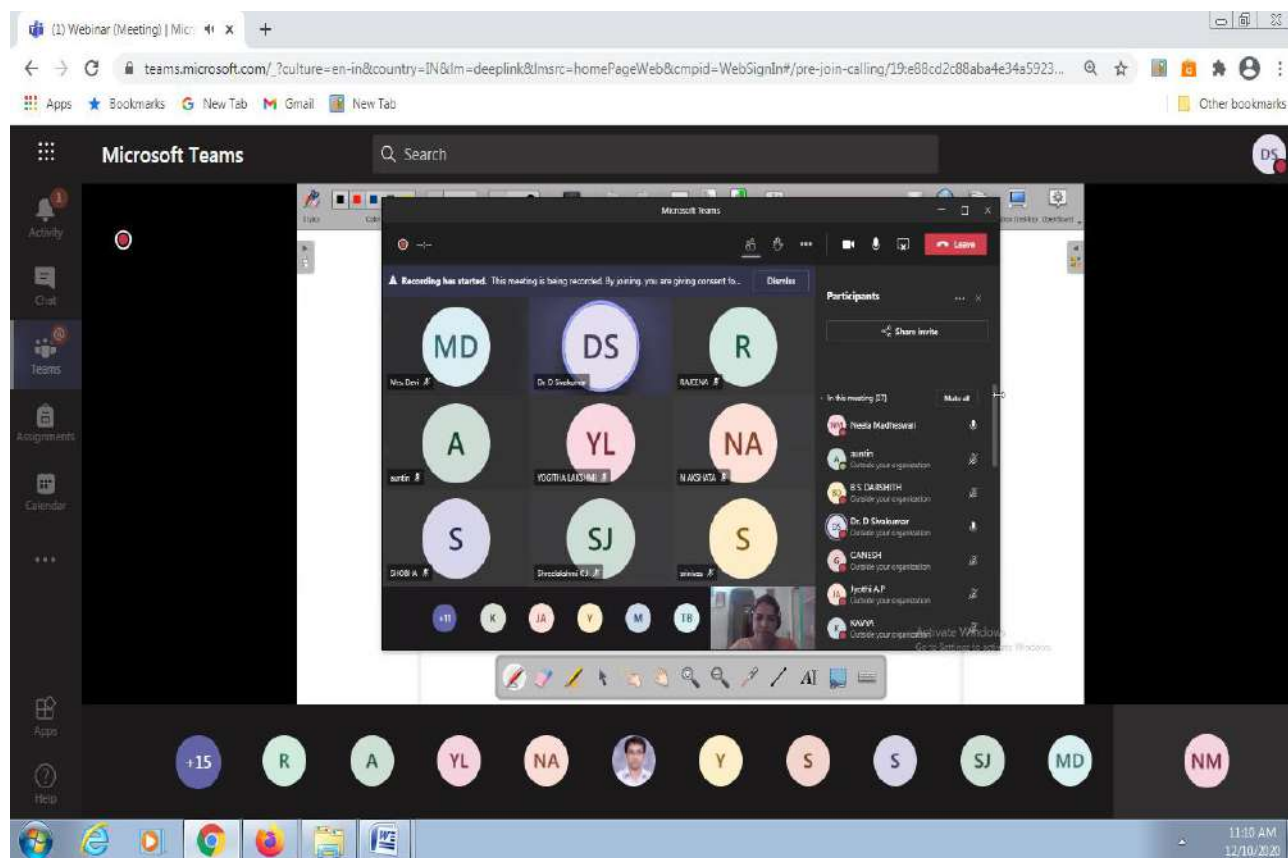
Coordinator
Mrs. Devi T
Faculty Coordinator

Coordinator
Dr. Sivakumar D
Faculty Coordinator

Organizer
Dr. S. Usha
Dean Research, HoD

Head of the Institution
Dr. T. Chandrashekar
Principal

Sample Screenshots of Participants



16. My Story : Motivation Session by Successful Innovator :

RajaRajeswari Institution Innovation Council (RRIIC) & Department of Mechanical Engineering have jointly organized **“My Story : Motivation Session by Successful Innovator”**.

Date : 11th December 2020 between 10.00 A.M. to 11.30 A.M.

Resource Person:

Er. Rajakumar, B.E.

(2019 – Mechanical Engineer & Innovator)

Innovator & Entrepreneur – Multicrop Seed Drill

Ramji Agro Implants, Kovilpatti, TamilNadu

Number of Students Attended: 112

Number of Faculty members attended: 17

Total Number of Participants : 129

Expected Outcome:

1. Problem Identification in Agriculture Industry
2. Interaction with the Farmers
3. Development of Prototype
4. Getting funds from NEC Business Incubator & IGEN - EDC
5. Final Product Design, Testing in the Farm field

6. Market Survey and Business Promotion
7. Establishment of Startup Venture "Ramji Agro Implements"

Poster

**RajaRajeswari College of Engineering, Bangalore**
Affiliated to VTU, Belagavi. Approved by AICTE, New Delhi & Govt. of Karnataka. Accredited by HACT, Texas, USA (Internationally) and by NBA (CSE, ECE, EEE, Mech)

**COMED-K: E099 CET Code: EI45**

Department of Mechanical Engineering & RRIIC

My Story : Motivational Session by Successful Innovator

**Resource Person :**
Er. S. Rajakumar B.E,
(2019 B.E. Mechanical Engineer)
Innovator - Multicrop Seeder
Ramji Agro Implements, Kovilpatti.



Date : 11.12.2020 (Friday) Time : 10.00 A.M – 11.30 A.M

E-Certificate will be given to the attended and active Participants.

Zoom Meeting ID : 863 438 6115

Password : rrbi

In Association with

**INSTITUTION'S INNOVATION COUNCIL**
(Ministry of HRD Initiative)

**pongu ventures**

**ENGINOMATIC TECHNOLOGIES**

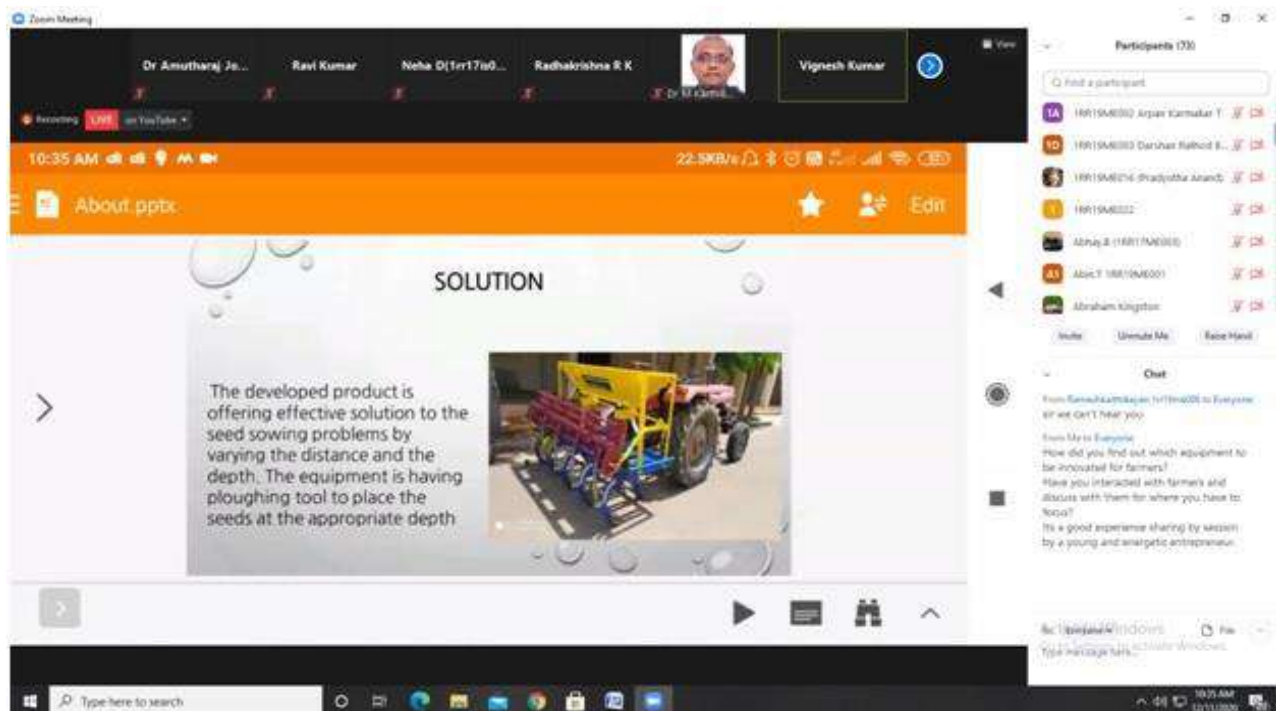
Prof.Ravikumar T
Asst. Prof.— Mech.

Dr.M.Karthikeyan
Professor – Mech.

Dr.C.Ramesh
Prof & HoD – Mech. Engg.

Dr.T.Chandrashekar, Principal

Dr.J.Amutharaj, President - RRIIC



Sample Screenshot

17. International Women Empowerment Leadership Talk on “Women Entrepreneurship and Leadership”

Date: 11th December 2020 between 10.00 A.M. to 11.30 A.M.



RajaRajeswari College of Engineering



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#14, Ramohalli Cross, Kumbalgodu, Mysore Road, Bengaluru - 560074

Resource Person:

Ms. Sreenidhi (Needhi) Narayanan,

Software Engineer,

CTO - Embark Women,

Innovation enthusiast

St Louis, Missouri, U.S.A.

Number of Students Attended: 182

Number of Faculty members attended: 45

Total Number of Participants : 227

Expected Outcome:

1. How to start Women Entrepreneurship Journey
2. Characteristics of an Entrepreneurship
3. Female Entrepreneur and problems & issues faced
4. Imposter Syndrome and issues
5. How to Overcome Imposter Syndrome

Poster

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Department of Information Science and Engineering
INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD Initiative)

MoE approved : ICIC201912297

Resource Person
Sreenidhi Narayanan
Software Engineer & CTO, Embark Innovation
Women Innovation enthusiast St Louis, Missouri, U.S.A.
Topic:
Women Entrepreneurship & Leadership

Id :842 4246 1726
Password : rriic

on Fri, 11th Dec at 10:00am- 11:00am

Organizing Committee

Mrs. Sincy Elezebeth	Dr D. Sobya	Dr.S.Usha,	Dr.T.Chandrashekar, M.Tech., Ph.D
Social Media Co-ordinator - RRIIC	Start up Co-ordinator	Vice - President - RRIIC	Principal

Staff Coordinators

Mrs. Rajeshwari S , AP - ISE,	Mrs. Veda D., AP - ISE ,	Mrs. Vinutha H., AP - ISE ,	Dr.J.Amutharaj, M.E.Ph.D, FIE, President - RRIIC
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18. Orientation Session on “National Innovation and Start up Policy 2019”

RajaRajeswari Institution Innovation Council (RRIIC) organized an Orientation Session on “National Innovation and Start up Policy 2019”

Date: 15.12.2020 (Tuesday) & Timing: 10.00 A.M. to 11.30 A.M.

Resource Person:

**Dr.V.Agalya, M.E., Ph.D, SMIEEE, MISTE,
Head (Innovation and Entrepreneurship)
MoE – Innovation Ambassador & Trainer for IPR,
Associate Professor, Dept. of EEE,
CMR Institute of Technology, Bengaluru - 560037**

Target Audience: II, III and Final Year B.E Students and Faculty
Members

Number of Students Attended: 153

Number of Faculty members attended: 35

Total # of Participants: 188

Expected Outcome:

1. Initiatives of Ministry of Education Innovation Cell
2. Introduction to National Innovation & Start up Policy
3. Understanding policy Framework – Innovation, Start up and Entrepreneurship
4. Strategic Governance for Promoting Entrepreneurship in HEIs
5. Building organizational Capacity and Human Resources
6. Norms for Students and Faculty Start up
7. Seed funding and MVP fund generation
8. Incubation and Pre-Incubation Support by Institute and Management and from other funding agencies
9. Start up Eco System – Overview
10. Strategic measures by Institution Level and NISP Implementation Team and Institute Innovation & Start up Policy



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Poster



RajaRajeswari College of Engineering, Kumbalgodu, Bengaluru.







INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD Initiative)

RR Institution Innovation Council (RRIIC)





Resource Person
Dr. V. Agalya, M.E, Ph.D, SMIEEE, MISTE
Head (Innovation & Entrepreneurship Cell)
MoE - Innovation Ambassador & Trainer for IPR
Associate Professor - Department of EEE,
CMR Institute of Technology, Bengaluru-37

Orientation Session on National Innovation & Start-up Policy



<https://meet.google.com/xji-eeur-odx>

on Tue, 15th Dec at 10:00am -11:00am

Organizing Committee

Dr D. Sobya
Start up Coordinator

Dr.C.Ramesh
Convener-RRIIC

Dr.J.Amutharaj, M.E.Ph.D, FIE
President - RRIIC

Dr.T.Chandrashekar, M.Tech., Ph.D
Principal

Staff Coordinators

Mrs. DEVI T, AP - CSE,

Mrs. Sincy Kuruville, AP - EEE,

Mrs..Rajeshwari S, AP - ISE

Mrs.NEHA SINGHAL, AP - ISE



Sample Screenshots of Participants

19. Orientation Session by Innivation Ambassador for the Students on "Innovation & Entrepreneurship" on 17.12.2020 between 11.00 A.M. and 12.30 P.M.

Target Audience : First year B.E. Students

Number of Students attended : 162



RajaRajeswari College of Engineering Bangalore - 560074



RR Institution Innovation Council (RRIIC)

Ministry of Education Approved : ICIC201912297



INSTITUTION'S INNOVATION COUNCIL

(Ministry of HRD Initiative)

Orientation Session on

"Innovation and Entrepreneurship" by Innovation Ambassador

Date : 17th December 2020, 11.00 A.M. – 12.30 P.M



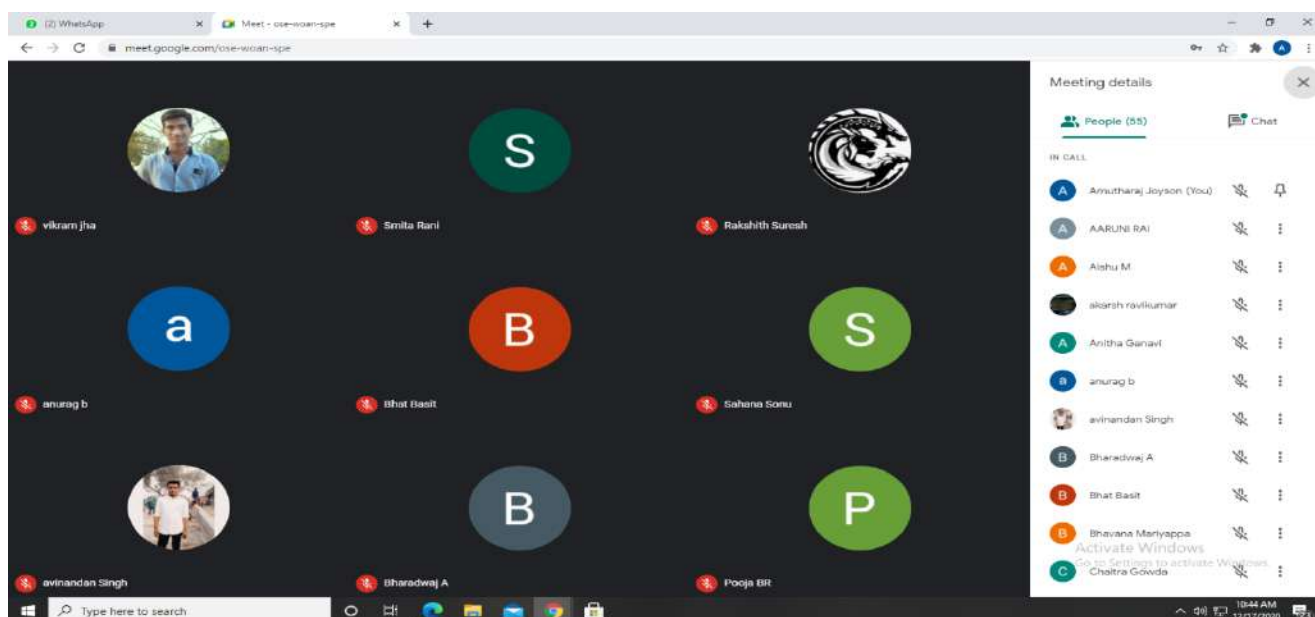
Resource Person

Dr. Amutharaj Joyson, M.E., Ph.D, FIE, FIETE

President– RRIIC & MoE – Innovation Ambassador

Professor & Head, Dept of Information Science and Engineering,

RajaRajeswari College of Engineering, Bangalore - 560074



Sample Screenshot with participants



RajaRajeswari College of Engineering

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#14, Ramohalli Cross, Kumbalgodu, Mysore Road, Bengaluru - 560074



20. Workshop on “Entrepreneurship Development Phases”

Date: 18.12.2020 (Friday) & Timing: 11.00 A.M. to 12.30 P.M.

Resource Person:

Dr.N.S. Ravindra, M.B.A. Ph.D,

Professor and HoD, MBA Department

RajaRajeswari College of Engineering, Bangalore.

Target Audience: II, III and Final Year B.E Students and Faculty Members

Number of Students Attended: 62

Number of Faculty members attended: 17

Total No of Participants: 79

Expected Outcome:

1. Entrepreneurship Development Phases
2. Problems faced by Entrepreneurs
3. Scope for Entrepreneurship in India
4. Industrial Policy towards Small Scale Industry
5. Steps in setting up an SSI
6. Phase – I : Big Idea
7. Phase – II :Taking Plunge



RajaRajeswari College of Engineering

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MoE Approved: ICIC201912297

Department of Electrical & Electronics Engineering



INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD Initiative)



Workshop on Entrepreneurship Development Phases

By : Dr. N S RAVINDRA

Professor and HOD, MBA, RRCE

On Friday, 18th Dec at 11 AM - 12 PM

Zoom ID: 8634386115

Psw: rrbi

Organizing Committee

Prof. Pavan Kumar K R

Prof. Avinash C M

Prof. Udhyami M B

Prof. Prutha G

RRIC Office Bearers

Dr. C Ramesh
Convener- RRIC

Prof. Sincy Kuruvilla
Social Media -RRIC

Dr. J Amutharaj
President - RRIC

Dr. T Chandrashekar
Principal

Poster



Sample screenshot of Participants

21. Entrepreneurship and Innovation Promotion Programme for the Budding Engineers :

Date : 29th December 2020 Time :11.00 A.M. to 12.30 P.M.

Resource Persons:

Mrs. V Preethi, B.E., M.S.(USA)

Start up Venture Designer,

Dr.G.Vinoth, M.S., Ph.D (USA)

CEO & Chief Start up Designer,

Pongu Ventures, Chennai.

Target Participants: First year Engineering Students

Number of Participants: 102 First year B.E. Students

Description:

Department of Basic Sciences and RajaRajeswari Institution Innovation Council (RRIIC) are jointly organizing a session on "Role of Innovative Engineers in Building Self-Reliant



RajaRajeswari College of Engineering

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India” in the First year Student Induction Program. It is a “Entrepreneurship and Innovation Promotion Programme” for the Budding Engineers.



RajaRajeswari College of Engineering, Kumbalgodu, Bengaluru.







INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD Initiative)

RR Institution Innovation Council (RRIIC)



pongu ventures

Resource Person

Dr.G.Vinoth, B.E,M.S,Ph.D

Startup Designer,Pongu Ventures

Role of Innovative Engineers in Building Self-Reliant India



Venue:MS Teams Virtual platform

on Tue, 29th Dec at 11:00am - 12:30pm

Organizing Committee			
Dr. K.S. Krishnakumar <small>HoD-Physics</small>	Dr Sudhakara A <small>HoD - Chemistry</small>	Dr A.S. Hari Prasad <small>HoD-Mathematics</small>	Dr.T.Chandrashekar, M.Tech., Ph.D <small>Principal</small>
Office Bearers			
Dr.C.Ramesh, Convener- RRIIC,	Dr.S. Usha, Vice President - RRIIC,	Dr.J. Amutharaj, President, RRIIC	

Poster

22. Virtual Workshop on “Design Validation through Double Diamond Approach”

Date and Time : 13th January 2021 (Wednesday) between 3.30 P.M and 5.00 P.M.

Resource Person:

Dr G Vinoth, M.S., Ph.D (U.S.A),
Founder CEO & Chief Startup Designer,
Pongu Ventures, Chennai.

Venue : Zoom Platform

Zoom Link : <https://us02web.zoom.us/j/8634386115...>

Meeting ID : 8634 385 115

Passcode : rrb



RajaRajeswari College of Engineering



(Approved by AICTE, New Delhi, Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi)

#14, Ramohalli Cross, Kumbalgodu, Mysore Road, Bengaluru - 560074

Number of Students Participated : 25

Number of Faculty members Participated: 10

Total Number of Participants : 35

Expected Outcome:

- Problem Identification – Revisited
- Formulate the Solution Methodology
- Design the Solution and Prototype
- Introduction to Divergent Thinking and approach
- Prototype Design and Design Validation
- Design Validation through Double Diamond approach

Poster



RajaRajeswari College of Engineering, Kumbalgodu, Bengaluru.







INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD Initiative)

RR Institution Innovation Council (RRIIC)



pongu ventures

Resource Person

Dr.G.Vinoth, B.E,M.S,Ph.D

Startup Venture Designer

Design Validation through Double Diamond Approach

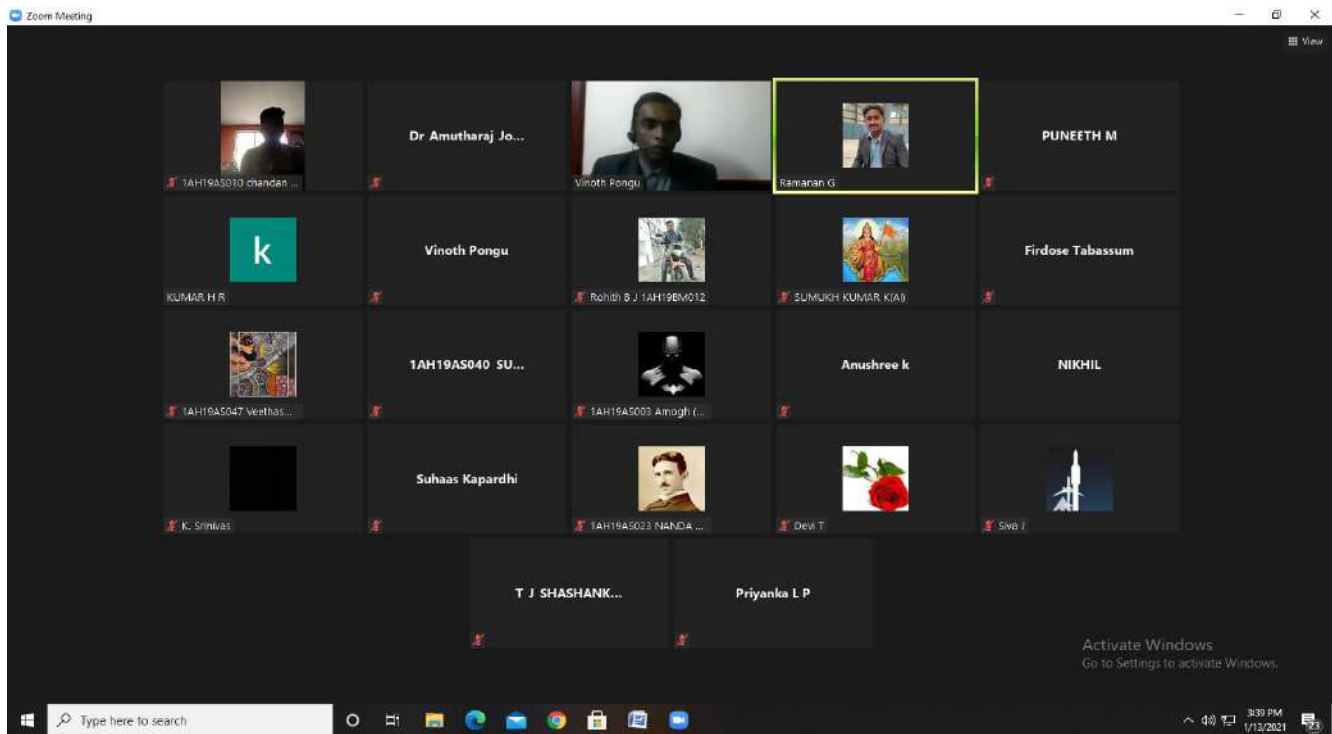


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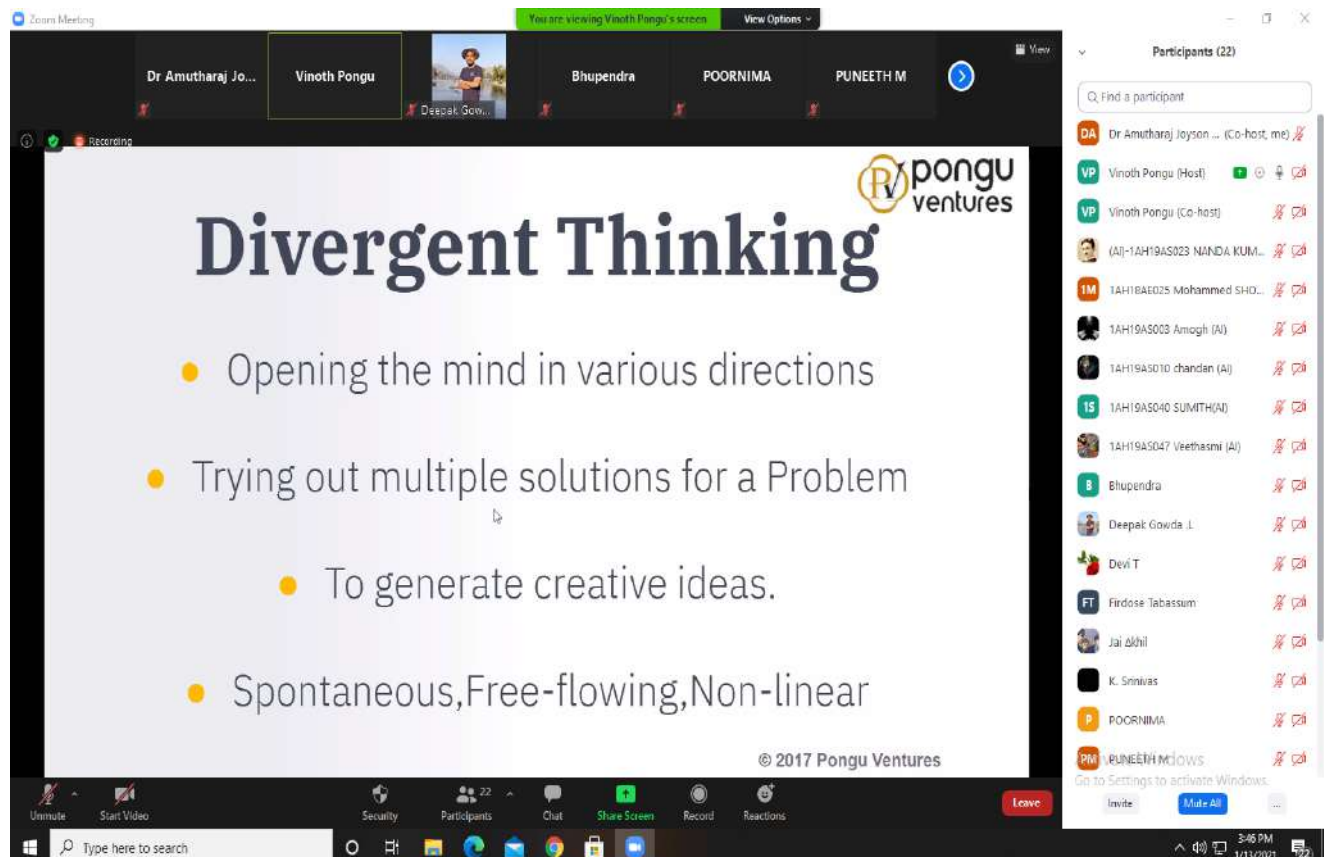
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on Wed, 13th January at 03:30 pm

Organizing Committee			
Dr.C.Ramesh Convener-RRIIC	Dr.S.Usha Vice President - RRIIC	Dr.J.Amutharaj, M.E.Ph.D, FIE President - RRIIC	Dr.T.Chandrashekar, M.Tech., Ph.D Principal
Staff Coordinators			
Mrs T Devi , AP - CSE,	Ms Veena N AP - CIVIL,	Mrs Neha Singhal AP - ISE	Dr D. Sobya ASP - ECE



Screenshots with Participants



Divergent Thinking

- Opening the mind in various directions
- Trying out multiple solutions for a Problem
- To generate creative ideas.
- Spontaneous, Free-flowing, Non-linear

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Participants (22)

Q. Find a participant

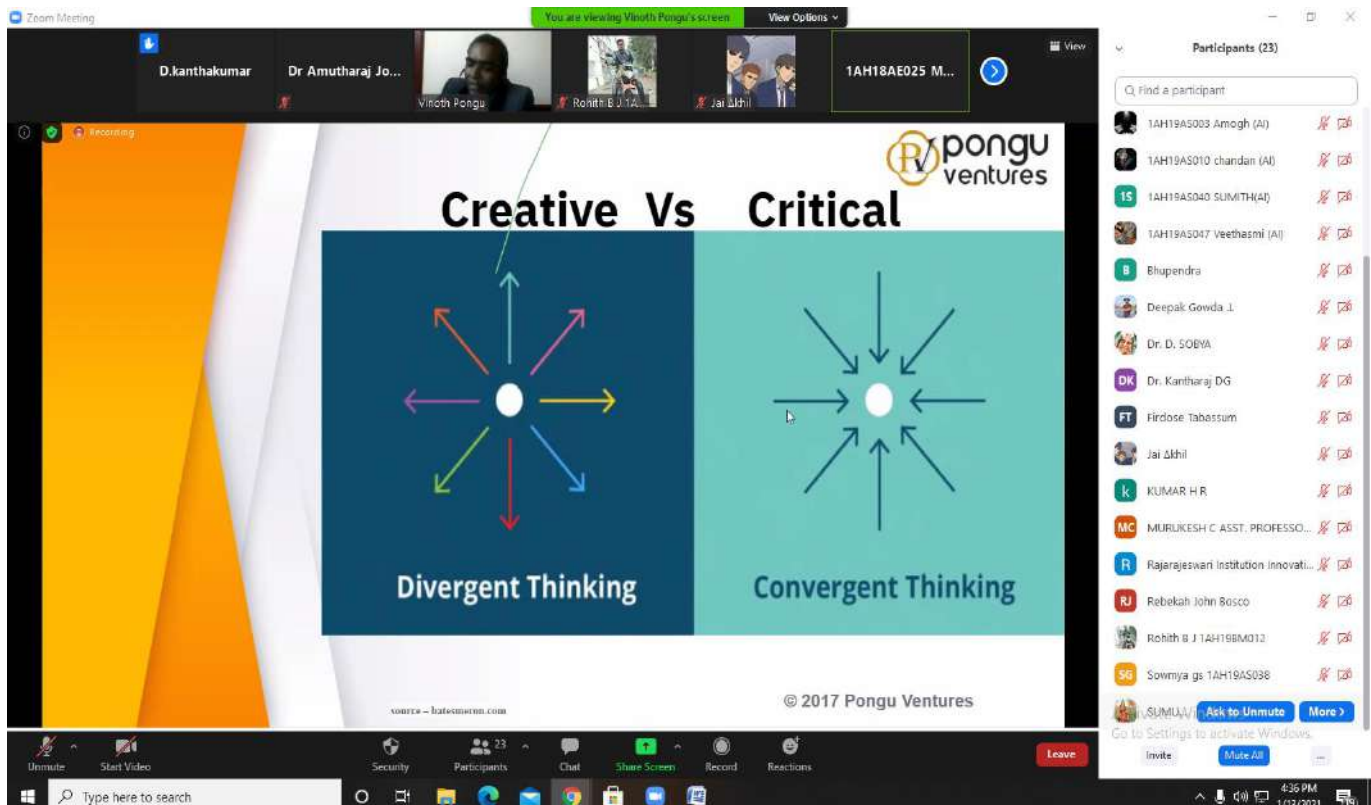
- DA Dr Amutharaj Joyson ... (Co-host, me)
- VP Vinoth Pongu (Host)
- VP Vinoth Pongu (Co-host)
- (AI)-1AH19AS023 NANDA KUM...
- IM 1AH18AE025 Mohammed SHO...
- 1AH19AS003 Amogh (AI)
- 1AH19AS010 chandan (AI)
- IS 1AH19AS040 SUMITH(AI)
- 1AH19AS047 Veethasmi (AI)
- B Bhupendra
- Deepak Gowda L
- Devi T
- FT Firdose Tabassum
- Jai Nikhil
- K. Srinivas
- P POORNIMA
- PM PUNEETH MCOWS

Go to Settings to activate Windows.

Unmute Start Video Security Participants Chat Share Screen Record Reactions Leave



The screenshot shows a Zoom meeting interface. The main content is a presentation slide titled "Divergent Thinking" by Pongu Ventures. The slide features a diagram with a central circle labeled "Stimulus" and six arrows pointing outwards to circles labeled "Potential Answer". Below the diagram, it says "DIVERGENT THINKING". The Zoom interface shows participants D.kanthakumar, Dr Amutharaj Jo..., and Vinoth Pongu. The bottom toolbar includes Unmute, Start Video, Security, Participants (22), Chat, Share Screen, Record, and Reactions.



This screenshot shows the same Zoom meeting with a new slide titled "Creative Vs Critical" by Pongu Ventures. The slide compares "Divergent Thinking" (represented by a starburst diagram with arrows pointing outwards) and "Convergent Thinking" (represented by a diagram with arrows pointing inwards to a central point). The Zoom interface shows the same participants, with an additional participant, Ronith B J, now visible. The bottom toolbar is consistent with the previous screenshot.

Sample Screenshots with Participants



23. Workshop on “Innovation and Design Thinking”

Date: 27th Jan 2021 & **Time:** 10.30 AM to 12.30 PM

Resource Person

Dr G Vinoth, M.S., Ph.D (U.S.A),
Founder CEO & Chief Startup Designer,
Pongu Ventures, Chennai.

Venue : Zoom Platform

Zoom Link : <https://us02web.zoom.us/j/8634386115...>

Meeting ID: 8634 385 115

Passcode : rrbi

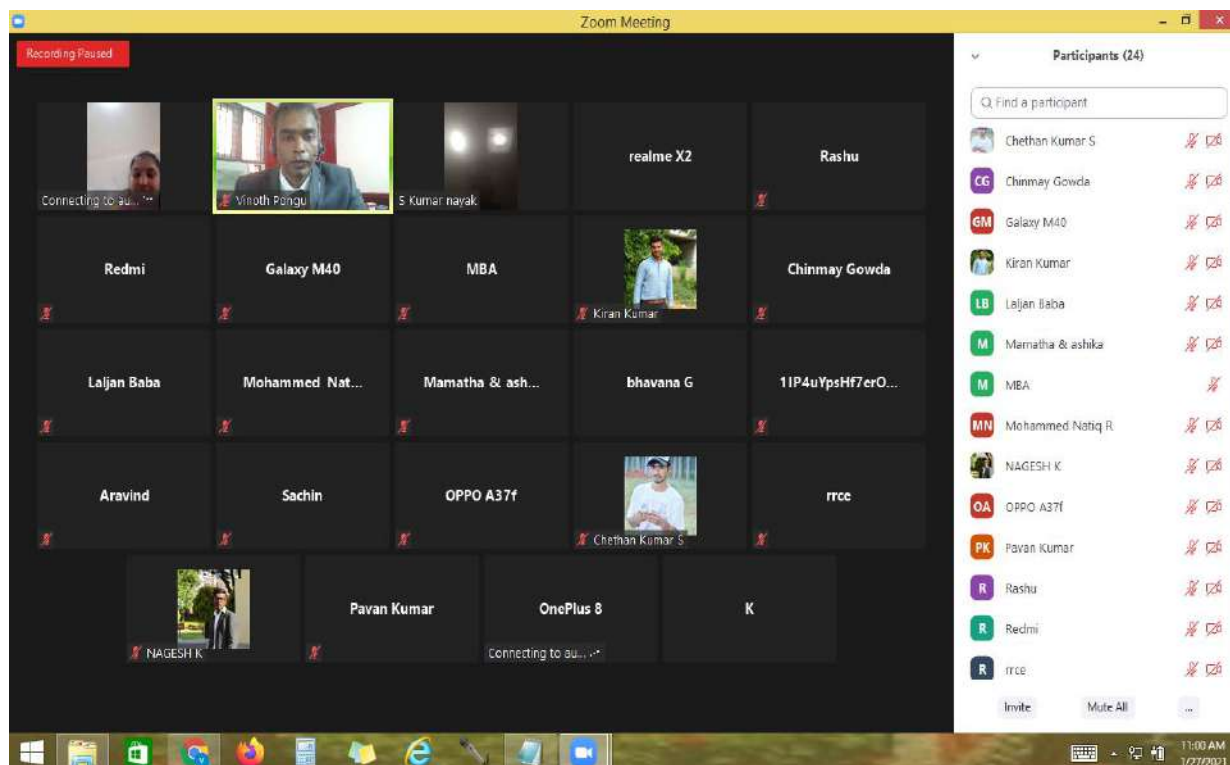
Target Participants: 84 Students.

About the Talk:

The session was organized for ACSCE and RRCE students and faculties about the Innovation and design thinking. The program was started at 10.30 AM with the welcome speech by Dr.Amutharaj, and followed by speech of the resource person by Dr.Sobya. The resource person handled an interactive session about design thinking and Innovation Concepts.

The poster features the Pongu Ventures logo in the top right corner. The title "Design Thinking, Critical and Creative Thinking" is written in a large, bold, black serif font. Below the title, the speaker's name "Dr. G.Vinoth, M.S, Ph.D" is displayed in a bold, black serif font, followed by his title "Chief Startup Venture Designer, Pongu ventures" in a smaller, regular, black serif font. The email address "vinoth.pongu@gmail.com" is written in a bold, black serif font, underlined. The phone number "Phone : 7708605247" is written in a bold, black serif font. In the bottom right corner, there is a small copyright notice "© 2017 Pongu Ventures".

Sample Screenshots



Sample Screenshots of the Talk

24 RRIIC Council meeting – II

Date : 30.1.2021 Between 11.30 A.M. and 12.45 P.M.

The Second Council meeting of RRCE Institute Innovation Cell (RRIIC) is held on 30th January 2021 at 11:30 A.M in the **Board Room**, Ground floor of the college.

Total Number of Council Member attended the meeting: 32 (16 staff and 16 students)



Council meeting Photograph

25. International Innovation Webinar on “Recent Innovations and Research Trends in Medical Research”

Date: 4.2.2021 (Thursday) & Timing: 9.30 A.M. to 10.30 A.M.

Resource Person:

Resource Person:

Swathi Jagannath, M.S., Ph.D (USA)

College of Computing & Informatics,

Drexel University,

Philadelphia, U.S.A

Target Audience : Faculty Members, Students, Academic Leaders & Research Scholars

Number of Participants attended : **112**



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Expected Outcome:

1. Awareness given on Recent Innovations and Trends in Medical Research
2. Research Findings in Medical research and advancements in medical research
3. Research settings for Recent Medical Research
4. Methods adopted in Trauma care and time line analysis
5. Speech workflow models
6. Video Interaction Analysis
7. Content Analysis and transcripts

Poster



RAJARAJESWARI COLLEGE OF ENGINEERING

#14, Ramohalli Cross, Kumbalgodu Post, Mysore Road, Bangalore - 560 074.
Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi and Govt. of Karnataka

**Research & Innovation Centre
&
RajaRajeswari Institution Innovation Council (RRIIC)**





Resource Person
Swathi Jagannath, M.S., Ph.D (USA)
College of Computing & Informatics,
Drexel University, Philadelphia

jointly organizing
an "International Innovation Webinar" on

"Recent Innovations and Research Trends in Medical Research"

Date: 4th February 2021(Thursday) Time : 9:30 A.M to 10:30 A.M

Head of the Institution
Dr.T.Chandrashekar
Principal

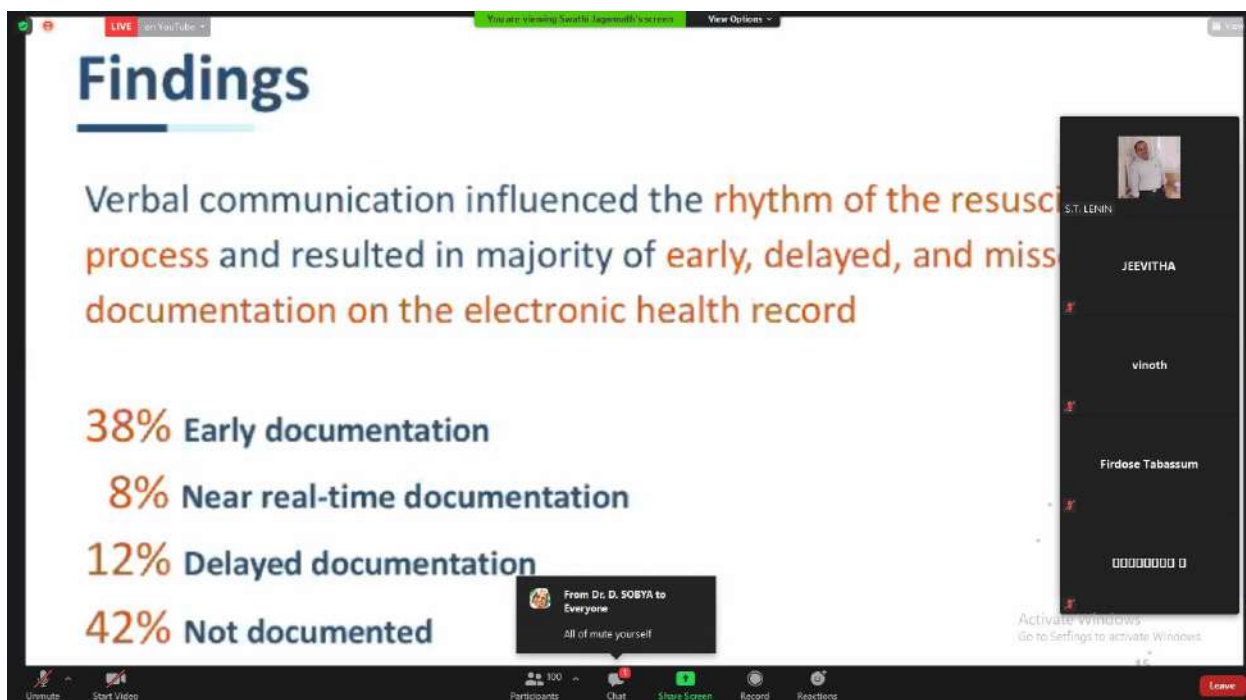
Zoom Id :8634386115
Passcode: rrce

Organizers

Dr.R.Balakrishna Dean, RRCE	Dr.S.Usha Dean-Research & Innovation HOD-CSE	Dr.J.Amutharaj President - RRIIC HOD - ISE	Dr.C.Ramesh Convener - RRIIC Head - Mech. Engg
---------------------------------------	---	---	---

Staff Co-ordinators

Dr.D.Sobya Assoc. Professor Dept. of ECE	Dr.Neha Singhal Asst. Professor Dept. of ISE	Mrs. T. Devi Asst. Professor Dept. of CSE	Mr. M.Dineshkumar Asst. Professor Dept. of ISE	Mrs. Rajeswari S Asst. Professor Dept. of ISE
---	---	--	---	--



Findings

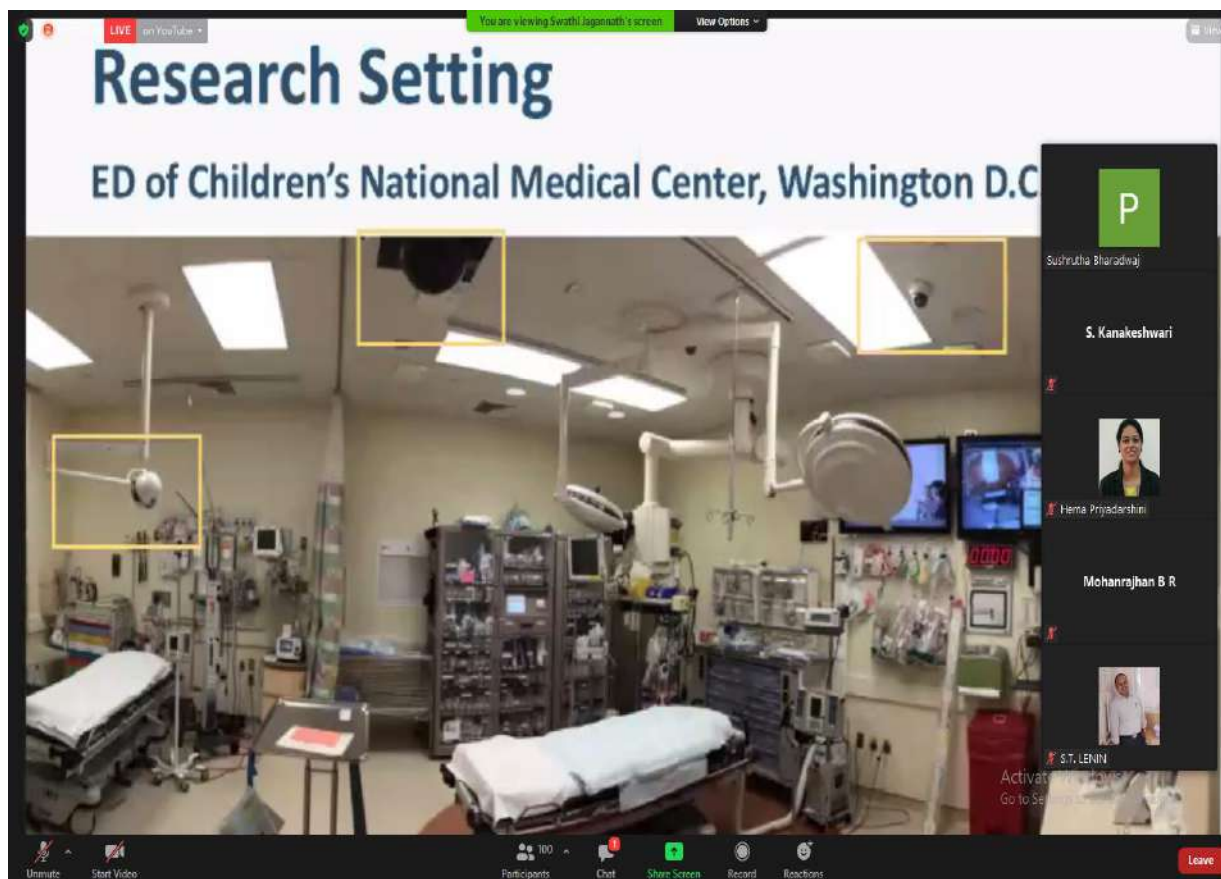
Verbal communication influenced the rhythm of the resuscitation process and resulted in majority of early, delayed, and missed documentation on the electronic health record

- 38% Early documentation
- 8% Near real-time documentation
- 12% Delayed documentation
- 42% Not documented

From Dr. D. SOBYA to Everyone
All of mine yourself

Participants: 100
Chat
Share Screen
Record
Reactions
Leave

Screenshots of the Online Session

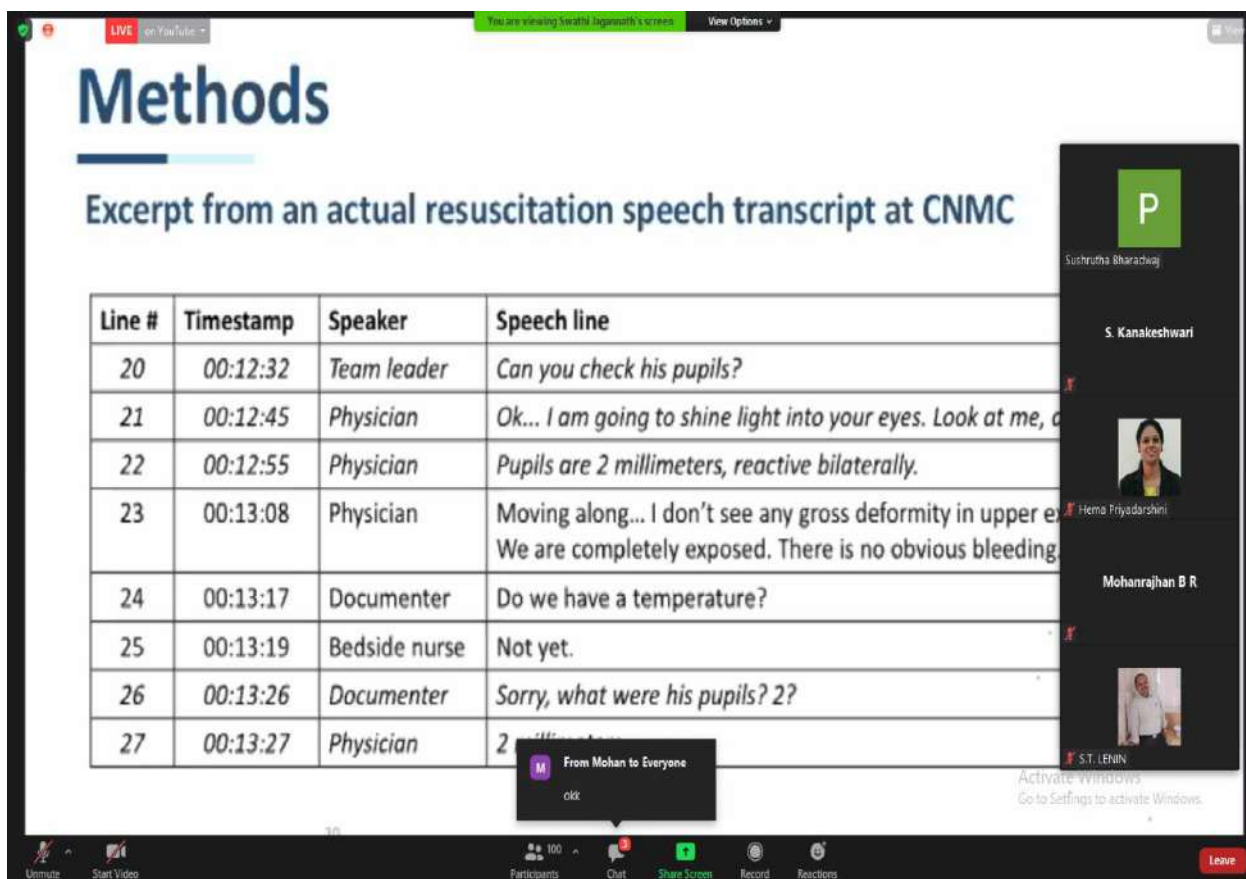


Research Setting

ED of Children's National Medical Center, Washington D.C.

Sushrutha Bharadwaj
S. Kanakeshwari
Hema Priyadarshini
Mohanrajhan B R
S.T. LENIN

Participants: 100
Chat
Share Screen
Record
Reactions
Leave



Methods

Excerpt from an actual resuscitation speech transcript at CNMC

Line #	Timestamp	Speaker	Speech line
20	00:12:32	Team leader	Can you check his pupils?
21	00:12:45	Physician	Ok... I am going to shine light into your eyes. Look at me, a
22	00:12:55	Physician	Pupils are 2 millimeters, reactive bilaterally.
23	00:13:08	Physician	Moving along... I don't see any gross deformity in upper ex We are completely exposed. There is no obvious bleeding
24	00:13:17	Documenter	Do we have a temperature?
25	00:13:19	Bedside nurse	Not yet.
26	00:13:26	Documenter	Sorry, what were his pupils? 2?
27	00:13:27	Physician	2 millimeters

Chat: From Mohan to Everyone
ok

Participants: 100
Unmute Start Video Chat Share Screen Record Reactions Leave

26. Entrepreneurial Leadership Talk “Lean Canvas – A Precursor to Business Model Canvas”

Date: 27.2.2021 (Saturday) & Timing: 9.30 A.M. to 11.00 A.M.

Resource Person:

Mrs. Preethi, B.E. M.S. (USA),

Start up Venture Designer,

Pongu Ventures, Chennai.

Target Audience: I, II, III and Final Year B.E Students and Faculty Members & Aspiring Entrepreneurs

Number of Students Attended: 56

Number of Faculty members attended: 22

Total : 78 Participants

Expected Outcome:

1. Introduction to Lean Canvas
2. Components of Lean Canvas
3. Problem Identification, Solution Methodology,
4. Unique Value Proposition, Customer Segmentation
5. Business Model Canvas Vs Lean Canvas
6. Advantages of Lean Canvas and Limitations
7. Hands on Session on Lean Canvas & Interactive Discussion



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Poster



RajaRajeswari College of Engineering, Kumbalgodu, Bengaluru.







INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD Initiative)

RR Institution Innovation Council (RRIIC)



ponguv
ventures



Resource Person

Mrs. Preethi, ,B.E,M.S,Ph.D

Startup Venture Designer

Topic:

Lean Canvas - A precursor to Business Model Canvas

on Sat, 27th Feb at 9:30am - 10:30am

Dr D. Soby

Start up Coordinator

Dr.C.Ramesh

Convener - RRIIC

Dr.S.M.Vijaya,

Associate Professor - ECE

Organizing Committee

Dr.J.Amutharaj, M.E.Ph.D, FIE

President - RRIIC

Staff Coordinators

Mrs.DEVI T, AP - CSE

Mrs.VEENA N, AP - CIVIL

Dr.T.Chandrashekar, M.Tech., Ph.D

Principal

Mr.Ravikumar,AP-ME

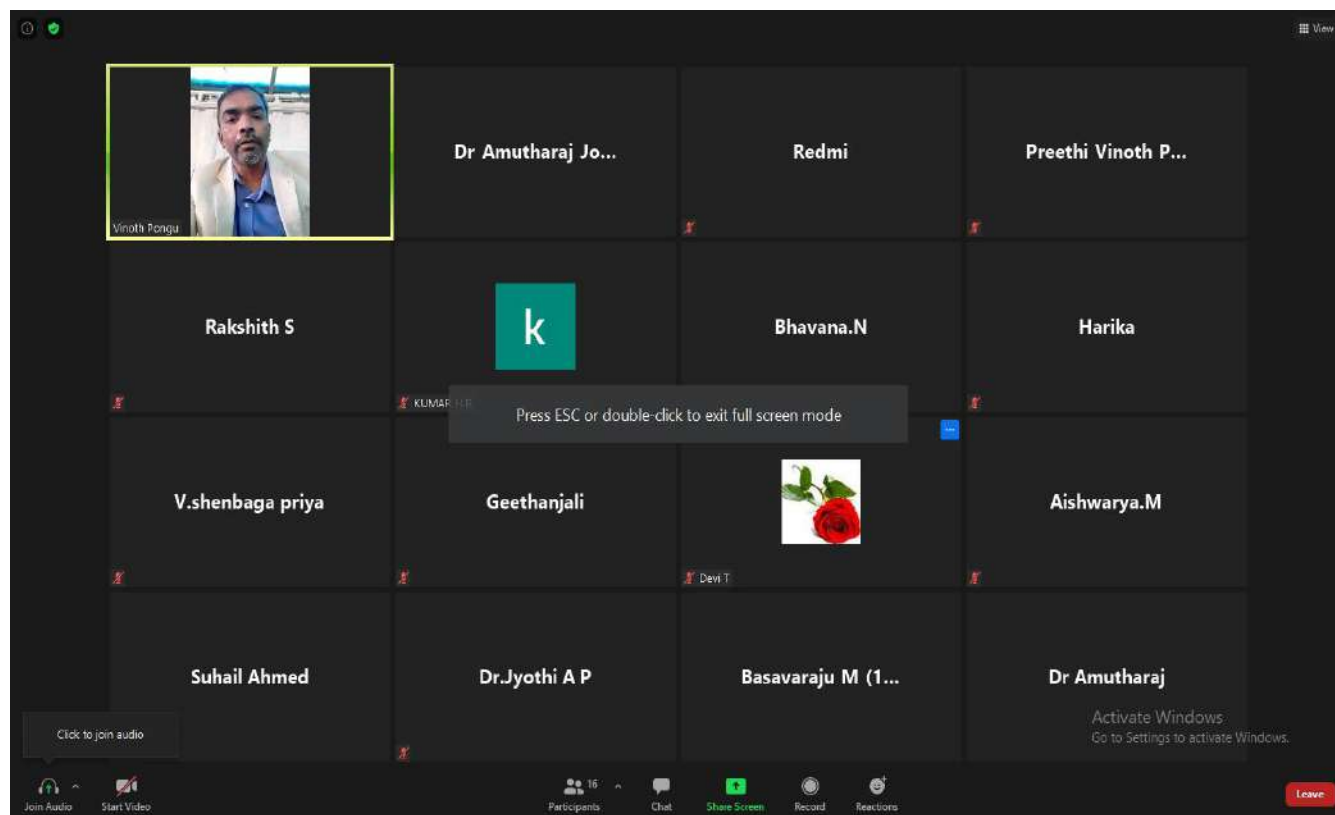
Dr.SUNITA MANOJ,ECE

Mrs.Neha Singhal,AP-ISE

zoom Id : 8634386115

Password : rrbi

Event Photographs



Lean Canvas		E-mail ID:	Start-up Name:	Co-founder Name:	Date:	Version:
Problem	Solution	Unique Value Proposition	Unfair Advantage	Customer Segments		
1 main problem that we are mainly going to Solve 5 Sub Problems	Features in MVP to address the main problem Other Top features to be implemented in the future to address the sub problem	Single, clear and compelling message that states why you are different and worth buying	Can't be easily copied or bought	Target Customers		
Existing Alternatives	Key Metrics	High-Level Concept	Channels	Early Adopters		
List how these problems are solved today by competitors.	Key activities you measure	Linkedin for Farmers Naukri for Bluecollars	Path to customers Marketing Channels	List the characteristics of your ideal customers.		
Cost Structure			Revenue Structure			
List your fixed and variable costs. Customer acquisition costs Distribution costs Server Hosting, Licenses, Plugin Production costs, etc.			List your sources of revenue. Revenue Model Life Time Value Revenue			

Click to join audio

Dr. Amutharaj Jo...
Preethi Vinodh Pongu V...
Bheemesh s
Vinoth Pongu
Hema Shree

Activate Windows
Go to Settings to activate Windows.

Sample Screenshot of the session

27. National Level Women Empowerment and Leadership Talk on “Women Entrepreneurship & Empowerment” by Women Entrepreneurship Cell

Date & Time: 8th March 2021 Monday at 10.00 A.M.

Resource Persons:

Mrs V Preethi, B.E., M.S (USA),
Start up Venture Builder, Pongu Ventures
Er. S. Kalaipriya,
Founder - Love2Farm, Coimbatore

Target Audience : Women Faculty Members, Girls Students, Women Academic Leaders & Women Research Scholars

Number of Participants attended: 78

Expected Outcome:

1. Sensitization on Women Empowerment
2. Discussion on Women Entrepreneurship Opportunities
3. Women Leadership & balancing EQ and IQ at Workplace
4. Discussion on Economic Up-liftment by Women Start up creation
5. Challenges faced by Women Entrepreneurs



Zoom Meeting

Participants (22)

Economic Upliftment by Promoting Women Startups

Presented by -
Mrs. Preethi Vinoth, B.E, M.S (USA)
Pongu Ventures

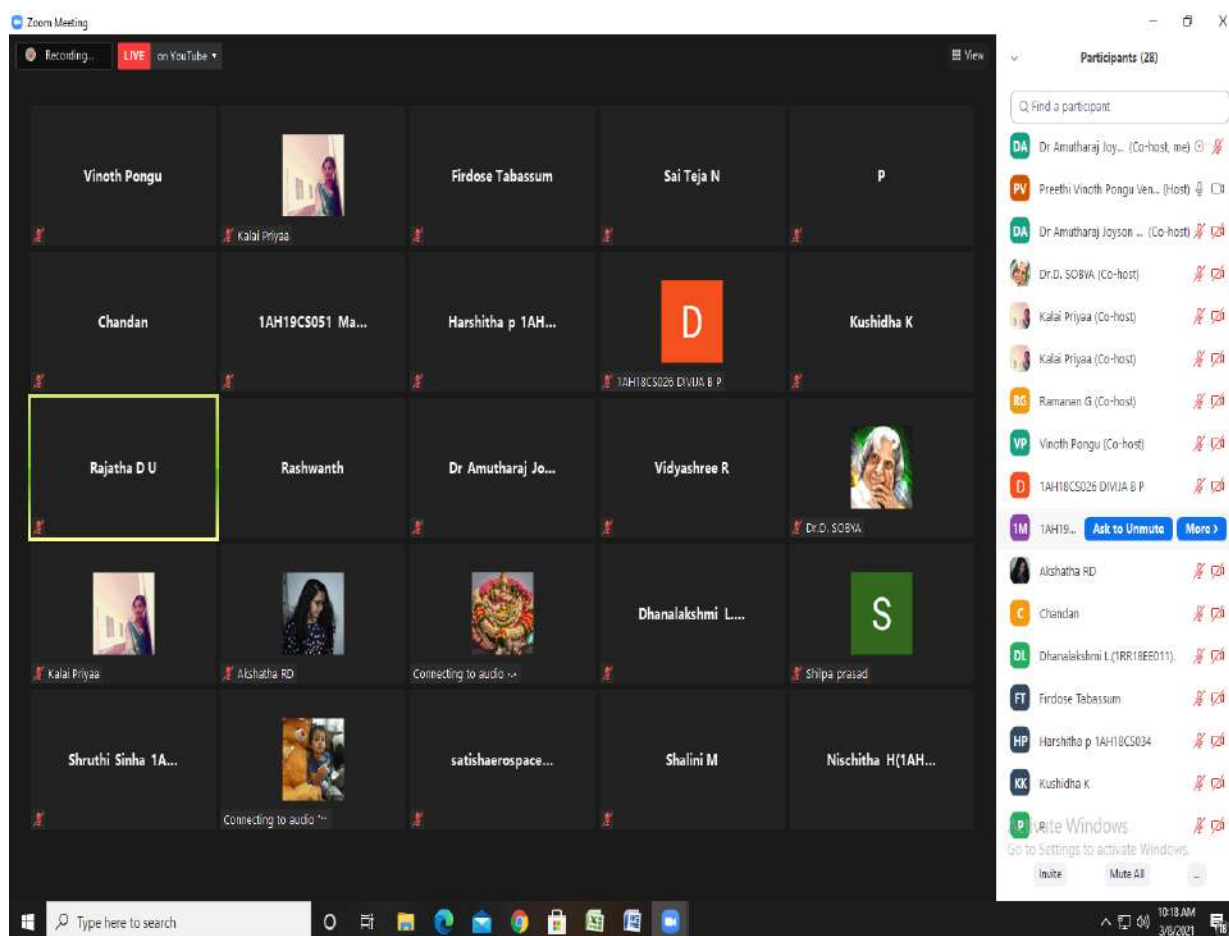
Dr Amutharaj Joy...
Preethi Vinoth P...
Ramanan G
Dr Amutharaj Jo...
PRATEEKSHA (1...
Professor

Recording... LIVE on YouTube

Audio Start Video Security Participants Chat Share Screen Pause/Stop Recording Reactions Leave

Type here to search

10:16 AM 3/9/2021



Zoom Meeting

Recording... LIVE on YouTube

Participants (28)

Vinoth Pongu
Firdose Tabassum
Sai Teja N
P
Kalai Priya
Chandan
1AH19CS051 Ma...
Harshitha p 1AH...
Rajatha D U
Rashwanth
Dr Amutharaj Jo...
Vidyashree R
Kalai Priya
Alshatha RD
Connecting to audio...
Dhanalakshmi L...
Shruthi Sinha 1A...
Connecting to audio...
satishaerospace...
Shalini M
Nischitha H(1AH...
Shilpa prasad

Ask to Unmute More

Go to Settings to activate Windows

Type here to search

10:18 AM 3/9/2021

Screenshot of the Online Leadership Talk



28. International Research and Innovation Webinar on “Innovative Research Ecosystem & Publishing Papers in High Impact Journals”

Date : 26th March 2021 at 10.30 A.M. IST

Resource Person:

Dr. Vijanth S Asirvadam,

Associate Professor, Dept of EEE,

Universiti Teknologi PATRONAS (UTP), Malaysia.

Venue : Google meet Link: meet.google.com/bpa-rruk-ezz

Objective of the FDP : To provide an awareness to the Research scholar on Establishing an Innovation Research Eco System in the Dept./College Campus and Publishing manuscripts in refereed and relevant high impact journals.

Topics covered:

- Creation of Innovative Research Eco System
- How to carry out Literature Review and identify the gap and Problem
- Setting up the Experimental Set up & Identification lab mates
- Choosing of Doctoral Committee and obtaining Suggestions for progress
- Preparation of Research Paper
- Choosing a refereed Journal by Indexing and Impact factor value

Target audience:

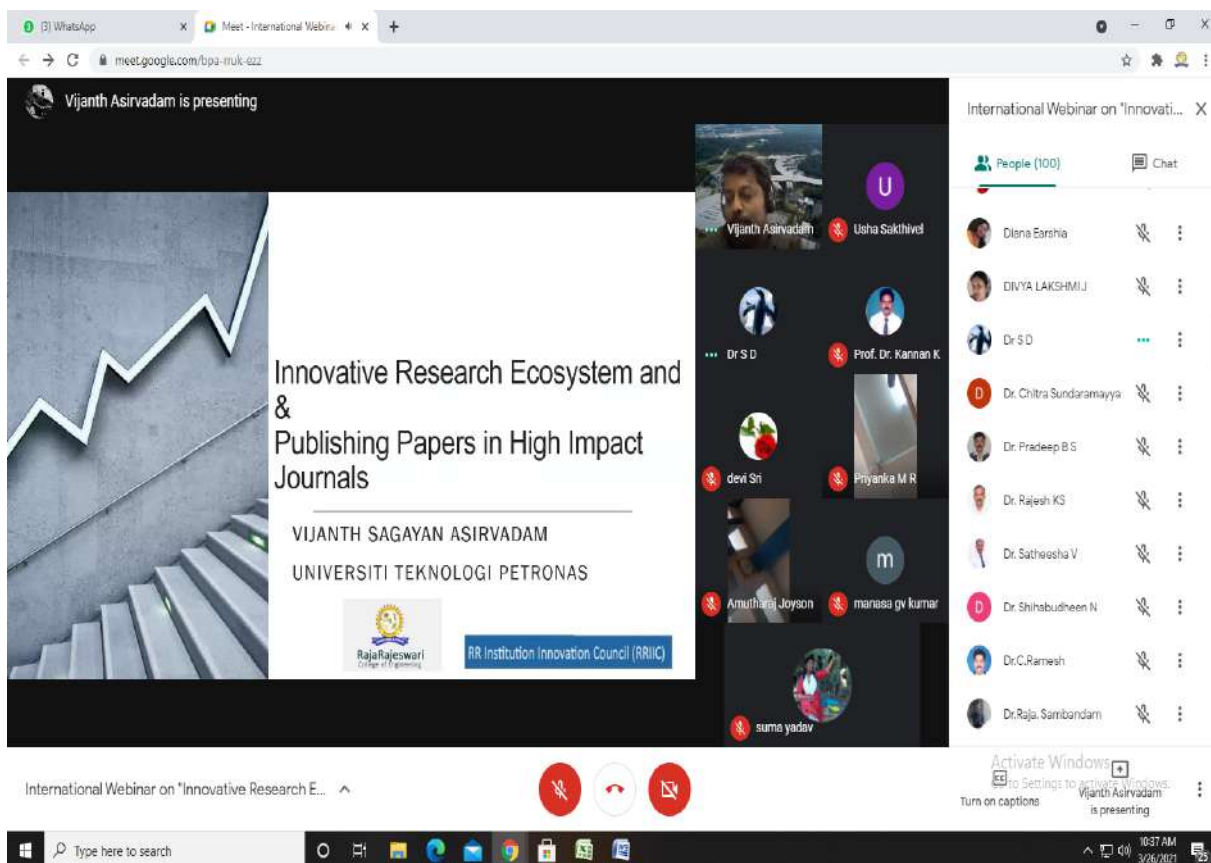
- ❖ The Webinar is open for Industry Personnel, Research Scholars, Faculty members, Research Supervisors, UG & PG Students.

Number of Participants : 168 Participants.

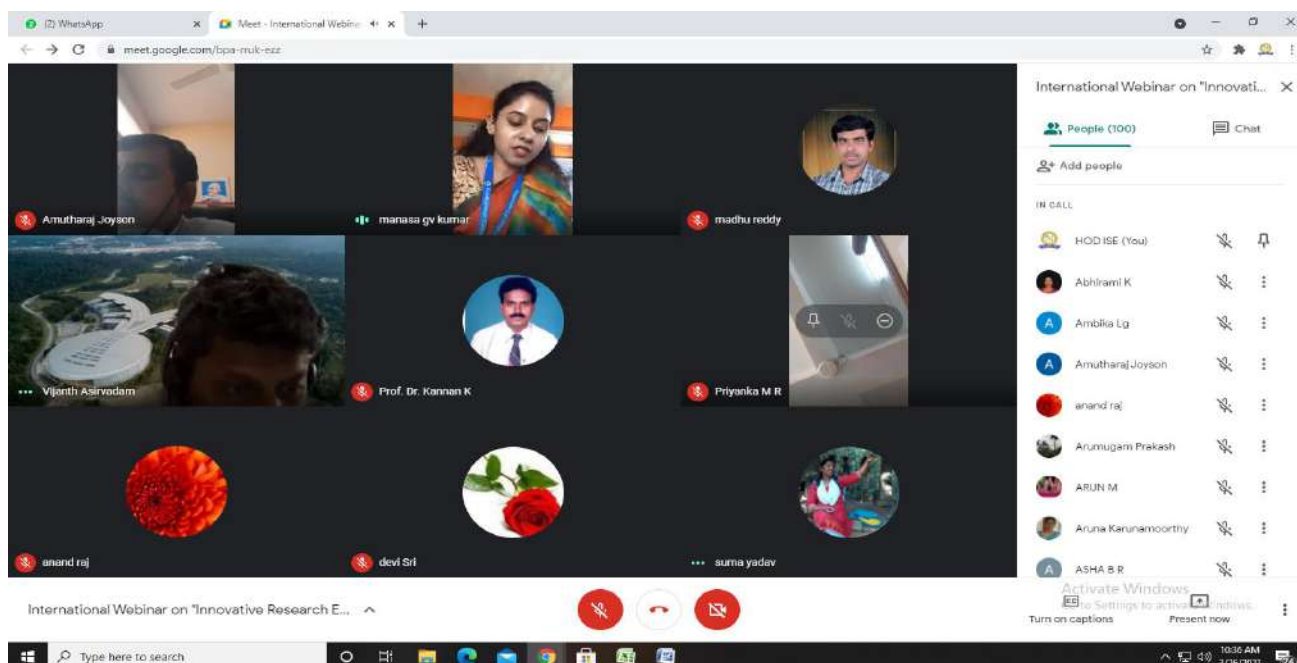
Outcome of the Program:

Research Scholars and Students learnt that how to identify the research problem, setting up an innovative Research Eco System in the research centre or college campus, setting up the experimentation, Writing of good journal paper and Choosing the right, refereed and relevant journal to publish the manuscript.

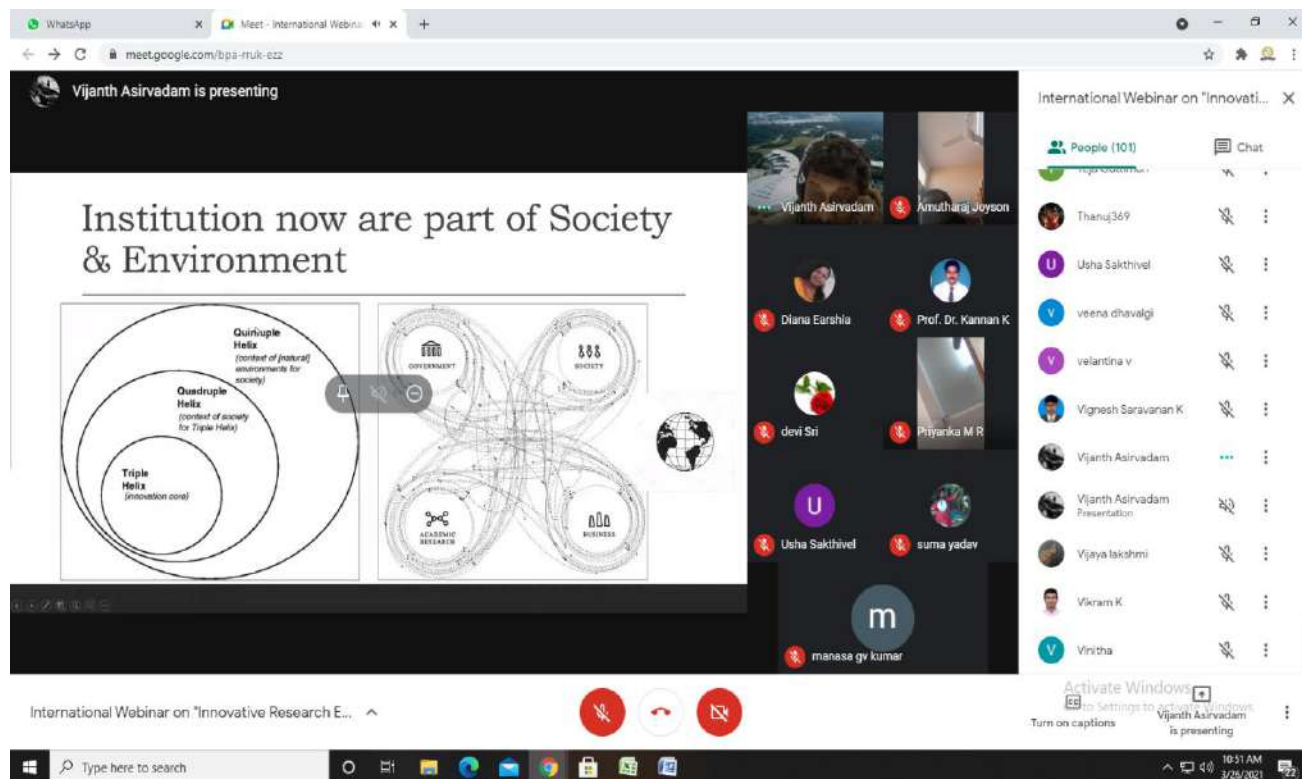
Event Photos



Welcome Address by Ms. Manasa, Asst. Professor, CSE Dept., RRCE



Presentation by Resource Person: Dr. Vijanth S Asirvadam



29. National Level Workshop on IPR and IP Management for Start ups

Date : 27th March 2021 at 10.30 A.M. IST

Resource Person:

Mr. O. Prasad Rao,

Deputy Controller of Patents & Designs,

Patents Office, Chennai

Objective of the Workshop : To provide an awareness and hands on session on Intellectual Property Rights (IPRs) and deliver the Step by Step Procedure for Filing, Processing of Patent Application in Indian and International Patent Offices.

Topics covered: Session 1 :

- ✓ Introduction to Intellectual Property Rights (IPRs)
- ✓ Introduction to Start up India Initiative & Recognition
- ✓ Forms of IPR –IPR Laws in India
- ✓ Industrial Design Patents
- ✓ Trademark and Copy right protection

Topics Covered in Session 2 :

- ✓ Filing, Processing of Patent Application
- ✓ Indian and International Patent Offices (PCT)
- ✓ Types of Patent Application
- ✓ Requirement and Forms to be submitted during Patent Application
- ✓ Precautions and Steps to be followed before filing patent application
- ✓ Request for Early Application
- ✓ Workflow of IPO Examination Procedure
- ✓ Filing Patents Abroad
- ✓ Traditional Patent System Vs PCT System (International)

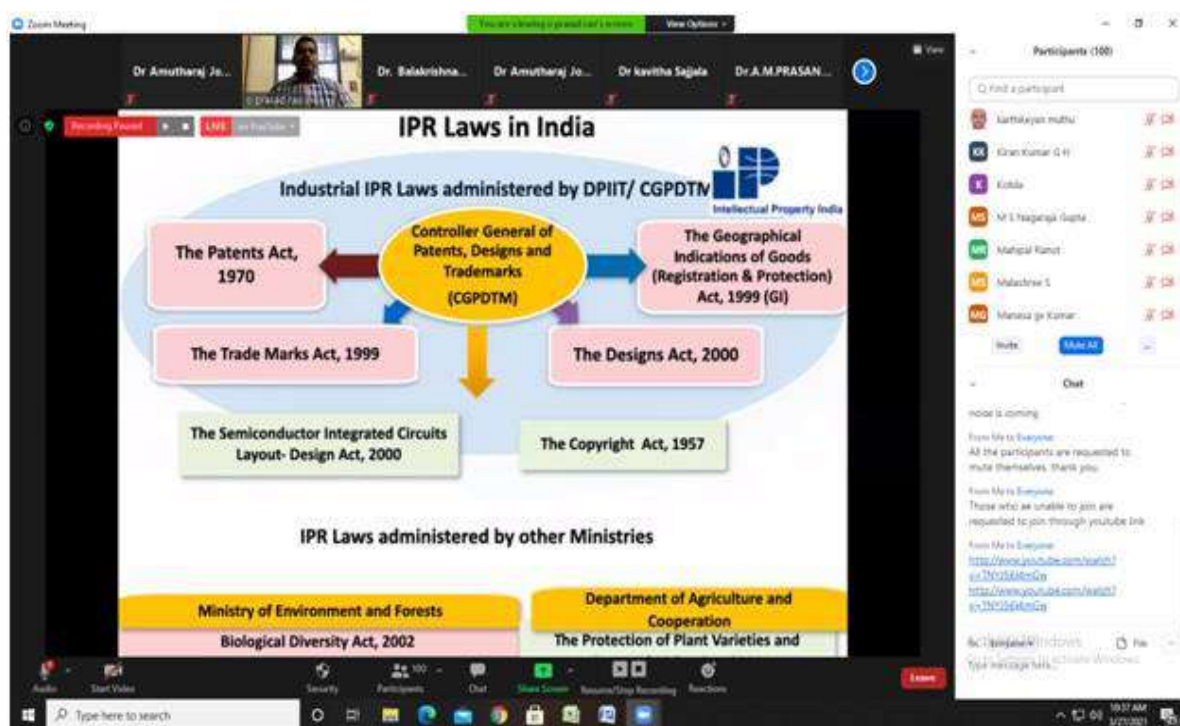
Target audience: The Webinar is open for Industry Personnel, Start up Founders, Research Scholars, Faculty members, Research Supervisors, UG & PG Students.

Number of Participants: 166 Participants.

Outcome of the Program:

1. Faculty members, Start up Founders, Research Scholars, UG and PG Students learnt about IPR and IPR Laws and IPR, Copyright Protection
2. Learnt about how to File and Patent Application, How does Processing of Patent Application carry out in Indian and International Patent Offices (PCT)
3. Sensitize the Participants on Work Flow of IPO Examination Procedure
4. Participants understand between Traditional Patent System Vs PCT System (International)

Event Photos / screenshots





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Poster

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CET CODE : E145 / COMED-K: E099 / PGCET : T858



RajaRajeswari
Institution Innovation Council (RRIIC)
&
Intellectual Property Rights Cell of RRCE
Jointly organizes a

National Level Workshop on
"IPR & IP Management for Start ups"



Resource Person:
Mr. O. Prasad Rao,
Deputy Controller of
Patents & Designs,
Patents Office,
Chennai.

Principal:
Dr. T. Chandrashekar

IPR Cell Organizers:
Dr. R. Balakrishna, Dean & IPR Co-ordinator
Dr. Rajesh K.S., IPR Cell
Dr. K. Aravinthan, NIRF Co-ordinator
Dr. N.S. Sreenivasalu Reddy, IPR Cell

RRIIC - Office Bearers:
Dr. J. Amutharaj, President - RRIIC
Dr. S. Usha, Dean-Research & RRIIC
Dr. C. Ramesh, Convener - RRIIC
Dr. A. Muruganandham, ARIIA Co-ordinator

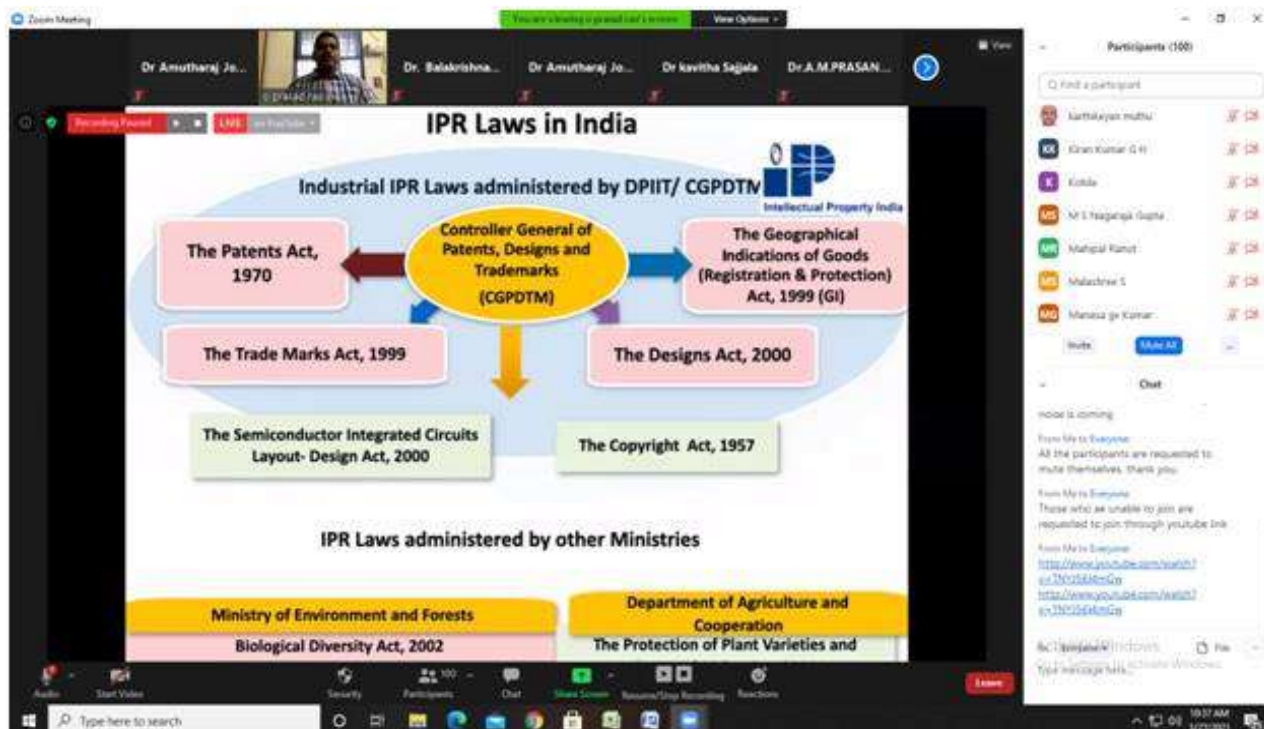
Registration Link
<https://forms.gle/BjNFRLnMapk3jnkg6>

***E-Certificate will be given to the registered and active participants of the workshop.**

Date: 27th March, 2021(Saturday) **Time:** 10:00AM to 12:30PM

#14, Ramohalli Cross, Kumbalodu Post, Mysore Road, Bangalore - 560 074.
Ph: 080 - 2843 7375 Website: www.rrce.edu.in

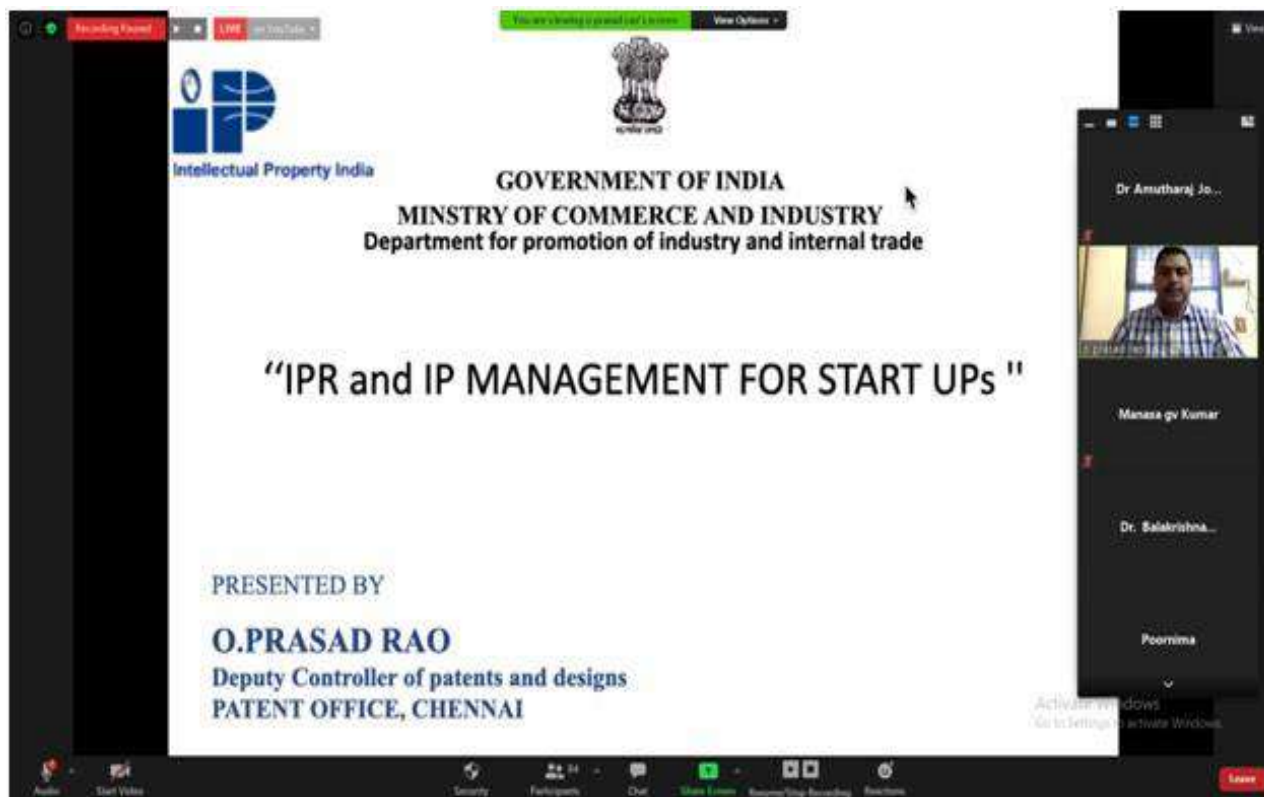
Event Photos / screenshots of the online session



The screenshot shows a Zoom meeting interface. The main window displays a presentation slide titled "IPR Laws in India". The slide content is as follows:

- Industrial IPR Laws administered by DPIIT/ CGPDTM**
 - Central authority: **Controller General of Patents, Designs and Trademarks (CGPDTM)**
 - Acts administered:
 - The Patents Act, 1970**
 - The Trade Marks Act, 1999**
 - The Designs Act, 2000**
 - The Semiconductor Integrated Circuits Layout- Design Act, 2000**
 - The Copyright Act, 1957**
 - The Geographical Indications of Goods (Registration & Protection) Act, 1999 (GI)**
- IPR Laws administered by other Ministries**
 - Ministry of Environment and Forests**: **Biological Diversity Act, 2002**
 - Department of Agriculture and Cooperation**: **The Protection of Plant Varieties and**

The Zoom interface shows participants at the top: Dr. Amutharaj Jo..., Dr. Salakrishna..., Dr. Amutharaj Jo..., Dr. Kavitha Sajala, Dr. A.M.PRASAD... The right sidebar shows a list of participants (100) and a chat window with messages.



The screenshot shows a Zoom meeting interface. The main window displays a presentation slide with the following content:

- Intellectual Property India** (Logo)
- GOVERNMENT OF INDIA**
- MINISTRY OF COMMERCE AND INDUSTRY**
- Department for promotion of industry and internal trade**
- "IPR and IP MANAGEMENT FOR START UPS"**
- PRESENTED BY**
- O.PRASAD RAO**
- Deputy Controller of patents and designs**
- PATENT OFFICE, CHENNAI**

The Zoom interface shows participants at the top: Dr. Amutharaj Jo..., Dr. Salakrishna..., Dr. Amutharaj Jo..., Dr. Kavitha Sajala, Dr. A.M.PRASAD... The right sidebar shows a list of participants (100) and a chat window with messages.

Event Photos / screenshots

30.National Level Workshop on “How to start a Start up – Legal & Ethical Steps”

Date : 17th April 2021 at 10.30 A.M. IST

Resource Person:

Dr.G.Vinoth, M.S., Ph.D, (USA)

CEO & Chief Start up Designer,

Pongu Ventures (P) Ltd., Chennai.

Join the workshop on Zoom:

Zoom Meeting Id: 8634 385 115

Passcode: rrbi

Objective of the Workshop : To provide hands on session on Legal & Ethical Steps for Starting a Start up Company and deliver the Step by Step Procedure to the student Entrepreneurs and Faculty Entrepreneurs and Start up Founders and Aspiring Student / Faculty Entrepreneurs.

Target audience:

- ❖ The Webinar is open for Industry Personnel, Start up Founders, Faculty members, UG & PG Students.

Number of Participants : 84 Participants.

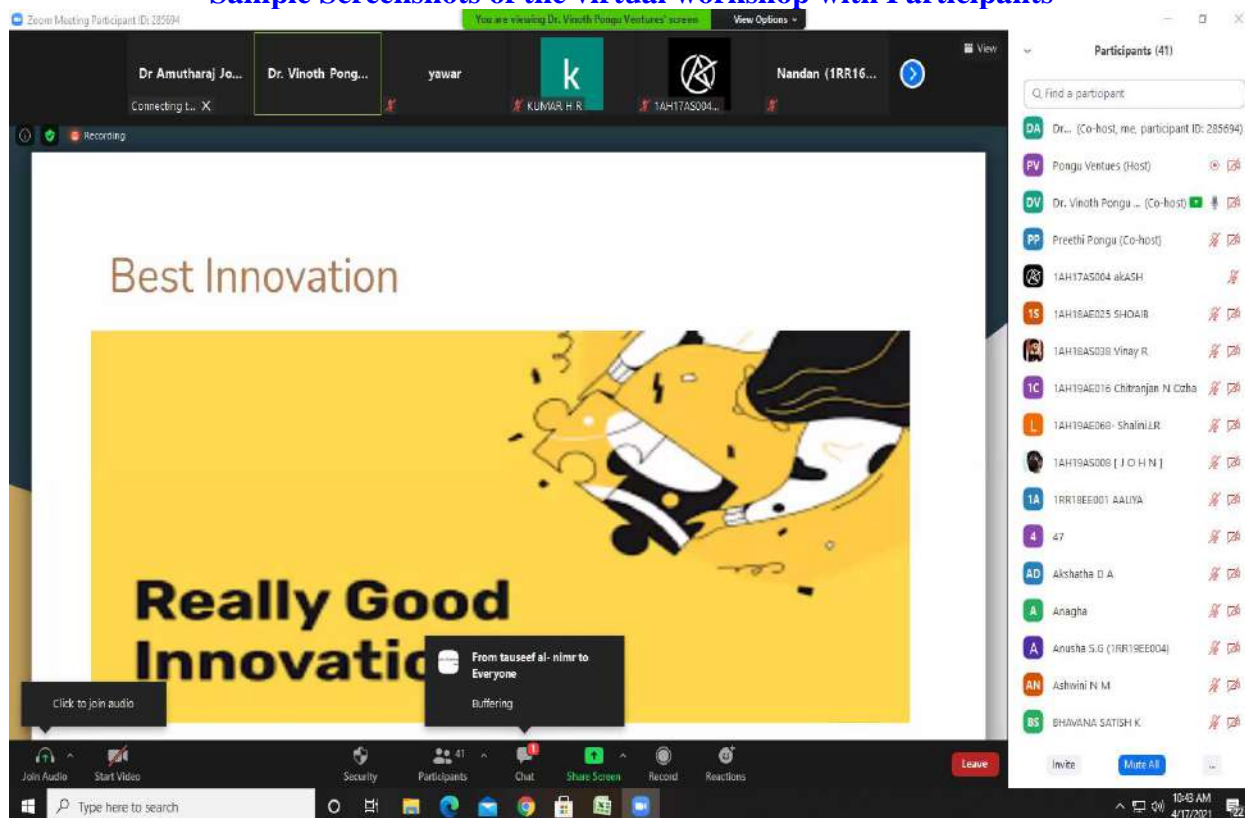
Outcome of the Program:

- Start up Definition
- Legal Steps in establishing a Start up and Minimum Viable Team / Partnership
- Ethical Steps to be followed by Start up Founders & Quality Benchmarks
- Cost involved in Start up Registration and Operation cost of a start up
- Steps for Registration of a Start up Company

Event Photos



Sample Screenshots of the virtual workshop with Participants



Sample Screenshots



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31. Entrepreneurial Leadership Talk Session on "Converting a Prototype into a Start up"

Date : 22nd May 2021 Timing : 10.30 A.M to 12.00 Noon

Resource Persons:

Mrs. V Preethi, B.E., M.S.(USA)

Start up Venture Designer,

Dr.G.Vinoth, M.S., Ph.D (USA)

CEO & Chief Start up Designer,

Pongu Ventures, Chennai.

Target Audience: Aspiring Student Entrepreneurs & Faculty Entrepreneurs, Start up Founders, Engineering Students of B.E. & M.Tech

Number of Participants attended: 29

Expected Outcome:

What is a Prototype?

Prototype Validation & Types of Prototypes

Problem Discovery to a Start up Launch

Top 10 Reasons for Startup Failure in pre-start up stages

Overcome the failure and facing challenges

Event Poster

RajaRajeswari College of Engineering, Kumbalgodu, Bengaluru.

RR Institution Innovation Council (RRIIC)

Resource Persons

Mrs V Preethi, BE, MS(USA)
Startup Venture Designer

Dr.G.Vinoth ,B.E,M.S,Ph.D,
Chief Startup Designer,

Topic:
Converting a Prototype into a Start up

on Sat, 22nd May at 10:30am - 12pm

Zoom Id : 8634386115
Password : rrb

Organizing Committee

Dr D. Soby
Start up Coordinator

Dr.C.Ramesh,
Convener - RRIIC

Dr. J. Amutharaj
President - RRIIC

Dr.T.Chandrashekar, M.Tech., Ph.D
Principal

Dr K Aravinthan,
NIRF co-ordinator, -RRIIC

Dr R Muruganandam,
Professor-ECE, EDC cell, - NISP Team

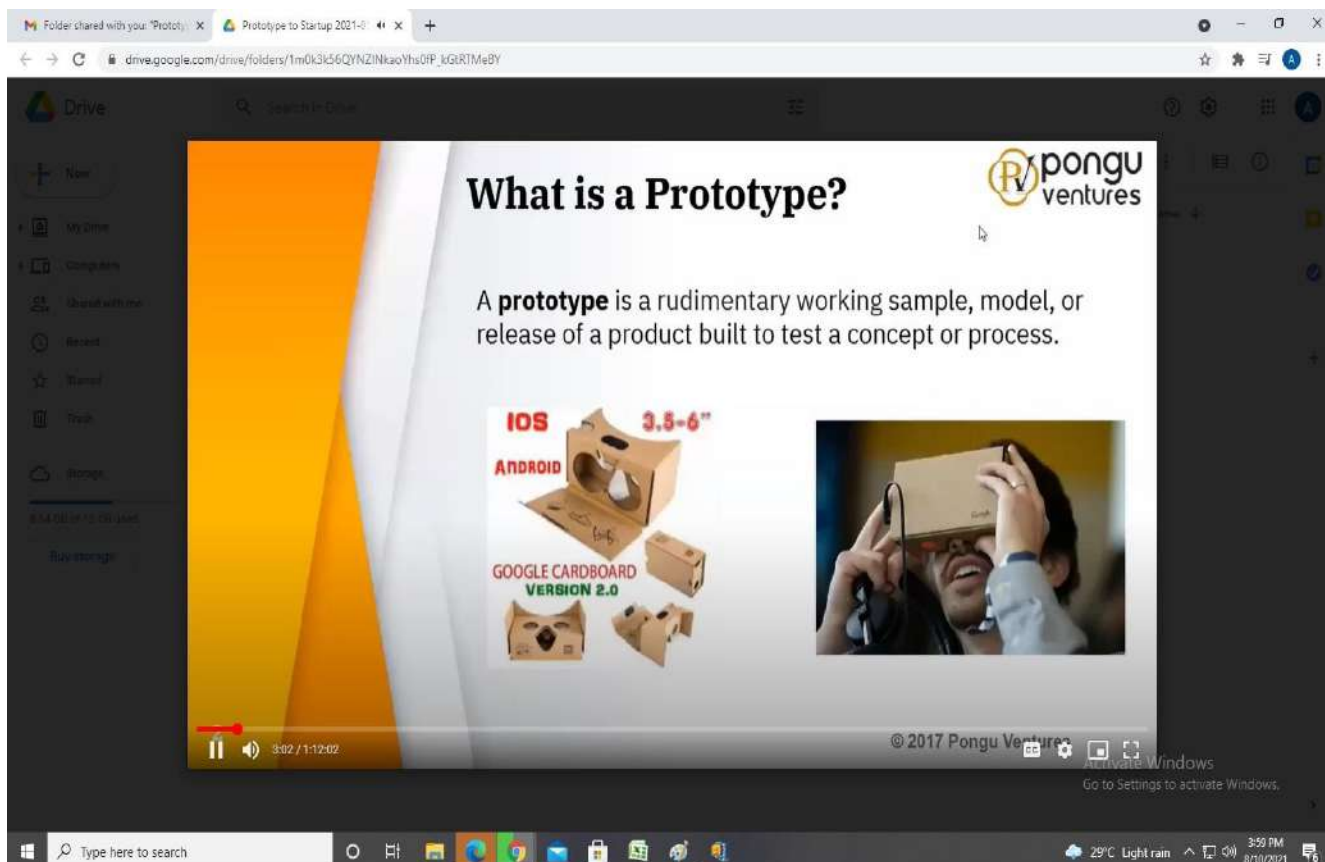
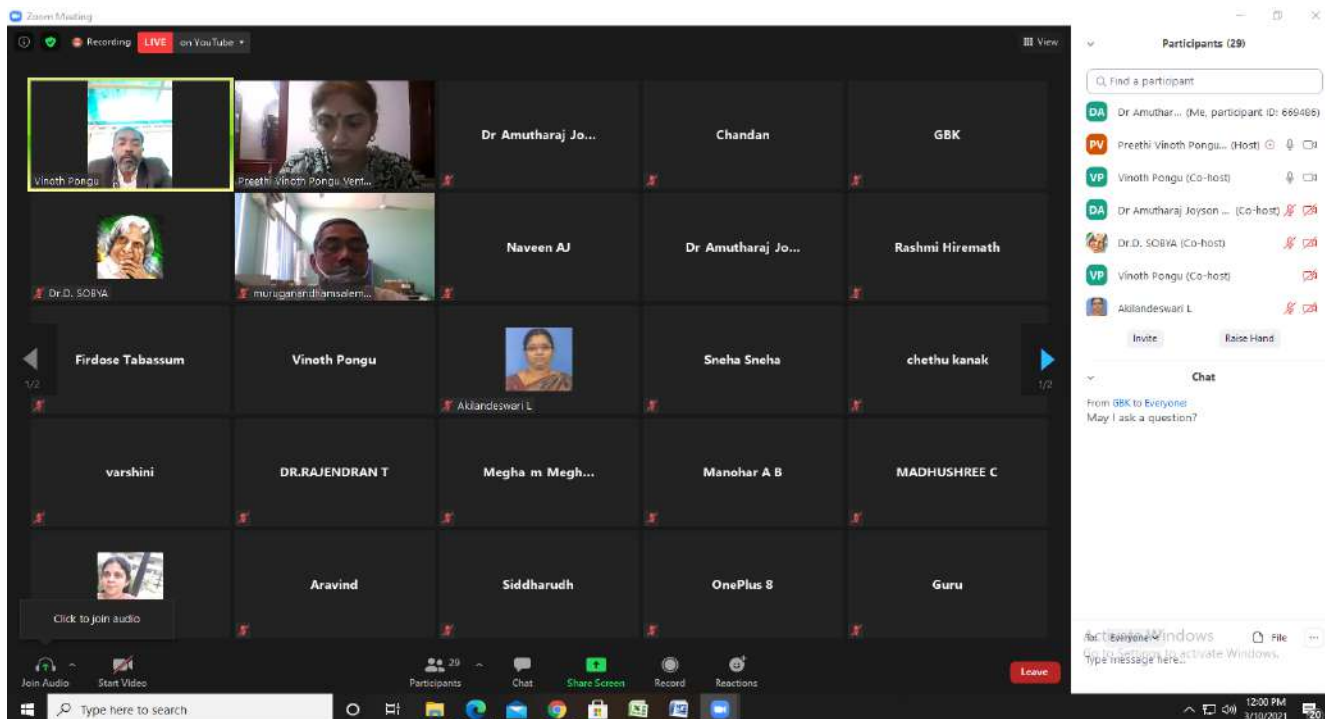
Dr. Vijaya S.M
Innovation Cell - RRIIC

Prof. T. Ravikumar,
AP-Mech

Prof. S.Rajeshwari
AP-ISE

Prof. T.Devi
AP-CSE

Event Photographs



Screenshots of the Leadership Talk

32. Workshop on “Building a Product Fit into Market”

Date & Time: 29th May 2021 & Timing: 3.00 P.M. – 4.30 P.M.

Resource Persons:

Dr.G. Vinoth, B.E., M.S., Ph.D (USA)

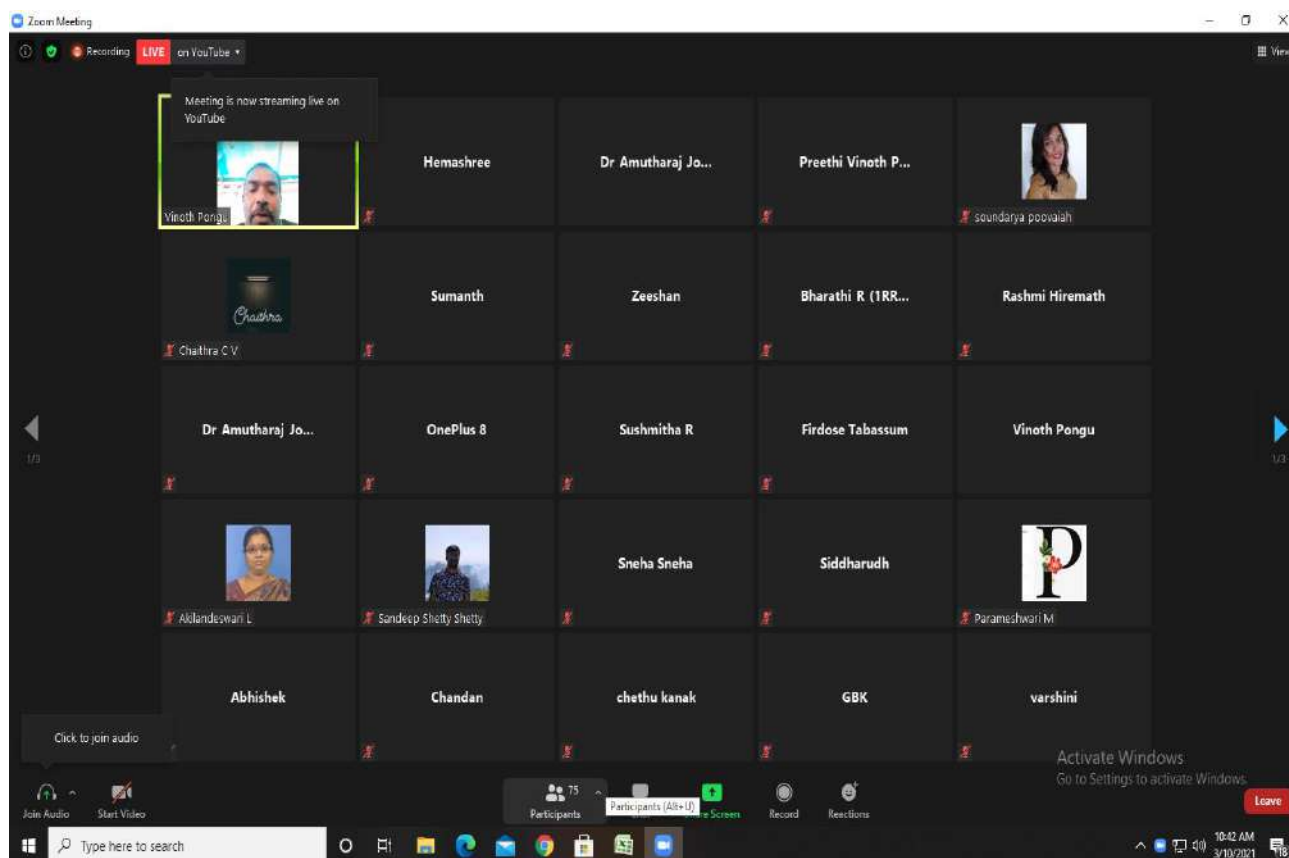
CEO & Chief Start up Designer,
Pongu Ventures, Chennai

Target Audience: Aspiring Student Entrepreneurs & Faculty Entrepreneurs, Start up Founders,
Engineering Students of B.E. & M.Tech

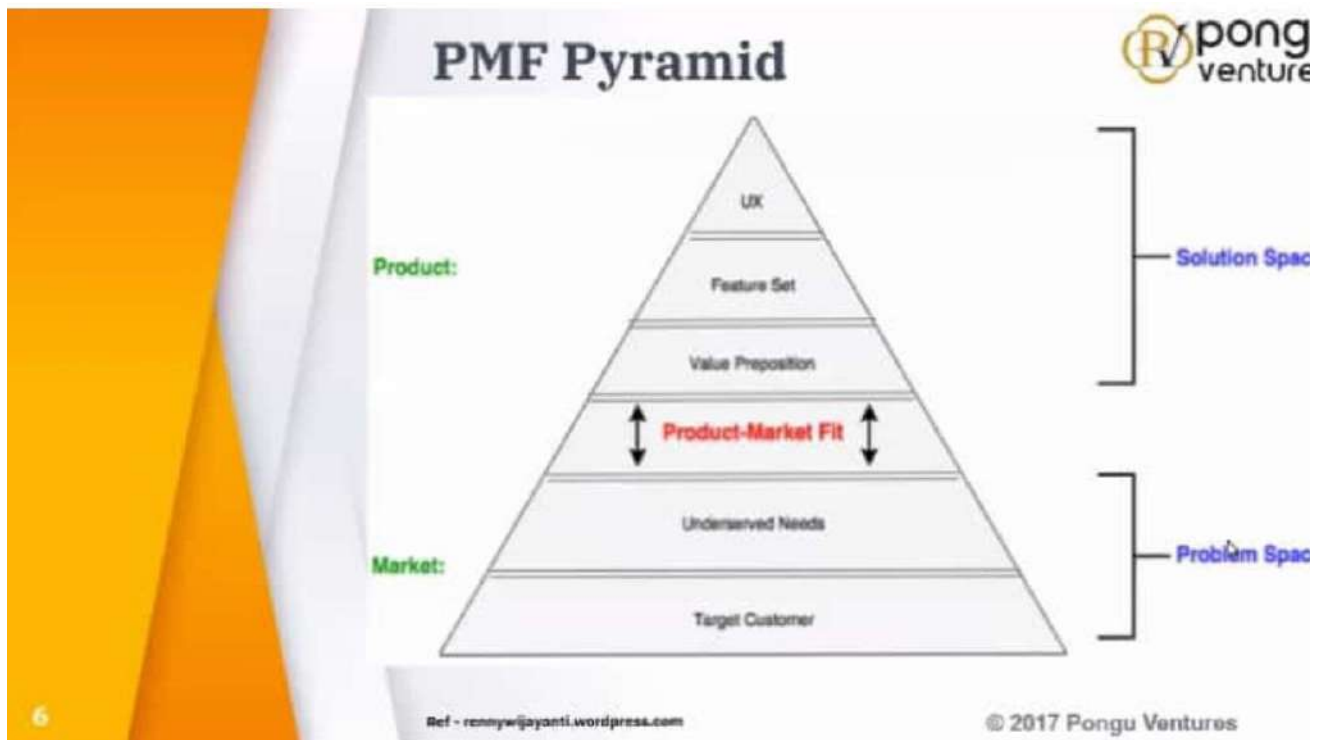
Number of Participants attended: 67

Expected Outcome:

1. Analyze the Market and Importance of Customer Segmentation
2. Building a product or service fit into market with high usability and need
3. Analyze the reasons for the failure of product
4. How to do market survey and identify the needs of customer segment
5. Hands on Session of analyzing the market and customer needs and arrive the specification and Features of the product.



Screenshot of the Online Workshop



Screenshot of the Online Workshop



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33. Leadership Talk on Incubators & Accelerators

Date : 19th June 2021 between 5.00 P.M. to 6.30 P.M.

Resource Person:

Dr.G.Vinoth, B.E, M.S, Ph.D (USA)

Startup Venture Designer,

Pongu Ventures, Chennai.

Target Audience: Aspiring Student Entrepreneurs & Faculty Entrepreneurs, Start up Founders, Engineering Students of B.E. & M.Tech

Number of Participants attended: 67

Expected Outcome:

1. What are accelerators?
2. Incubation Process and set up Incubators
3. Analyze the Importance Accelerators and Incubators
4. Fund generation and facility creation for Incubation units

Poster



RajaRajeswari College of Engineering, Kumbalodu, Bengaluru.







INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD Initiative)

RR Institution Innovation Council (RRIIC)



pongu ventures

Resource Persons



Mrs V Preethi, BE,MS(USA)
Startup Venture Designer

Dr.G.Vinoth ,B.E,M.S,Ph.D,
Chief Startup Designer,
Pongu Ventures,
Chennai.

Topic:

Incubators & Accelerators

zoom Id : 8634386115
Password : rrbi

Date & Time : 19th June 2021 @ 5.00 P.M.

Organizing Committee

Dr D. Soby
Start up Coordinator

Dr.C.Ramesh,
Convener - RRIIC

Dr. J. Amutharaj
President - RRIIC

Dr.T.Chandrashekar, M.Tech., Ph.D
Principal

Dr K Aravinthan,
NIRF co-ordinator,-RRIIC

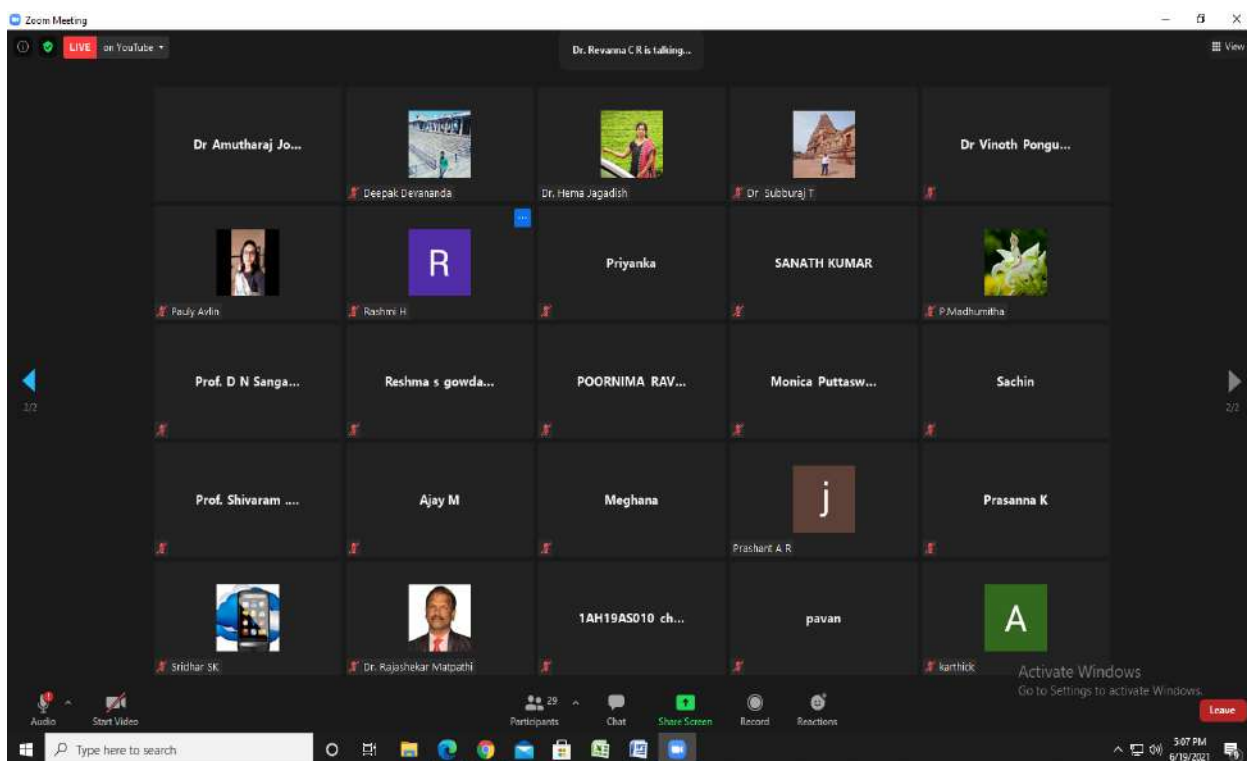
Dr R Muruganandam,
Professor-ECE, EDC cell.- NISP Team

Dr. Vijaya S.M
Innovation Cell - RRIIC

Prof. T. Ravikumar,
AP-Mech

Prof. S.Rajeshwari
AP-ISE

Prof. T.Devi
AP-CSE



Sample Screenshots of the virtual leadership Talk

34. Leadership Talk “Funding Your Start up” on 29th June 2021 :

Date: 29.6.2021 (Tuesday) & **Timing:** 3.00 P.M. to 5.00 P.M.

Resource Person:

Dr. G.Vinoth, M.S., Ph.D, (USA),

CEO & Chief Start up Designer,

Pongu Ventures Private Ltd, Chennai.

Mrs. Preethi, B.E. M.S. (USA),

Start up Venture Designer,

Pongu Ventures, Chennai.

Target Audience: I, II, III and Final Year B.E Students and Faculty
Members & Aspiring Entrepreneurs

Number of Students Attended: 86

Number of Faculty members attended: 25 **Total Number of Participants :** 111

Expected Outcome:

1. Need of Start up Funding & How to generate?
2. Clarification among Grants Vs Debt Vs Equity
3. Raising MVP Funding and Management of fund
4. Procedure for Equity Fund Raising / Bootstrapping
5. Revenue Generation and advantages
6. Raise funds from Angel Investors, Venture Capital Funding, Accelerators



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Poster



RajaRajeswari College of Engineering, Kumbalgotu, Bengaluru.







INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD Initiative)

RR Institution Innovation Council (RRIIC)



pongu ventures

MoE Approved : IIC201912297



Resource Persons

Mrs V Preethi, BE,MS(USA)
Startup Venture Designer

Dr.G.Vinoth, B.E,M.S,Ph.D,
Chief Startup Designer,
Pongu Ventures,
Chennai.

Topic:

Funding your Start up

zoom Id : 8634386115

Password : rrbi

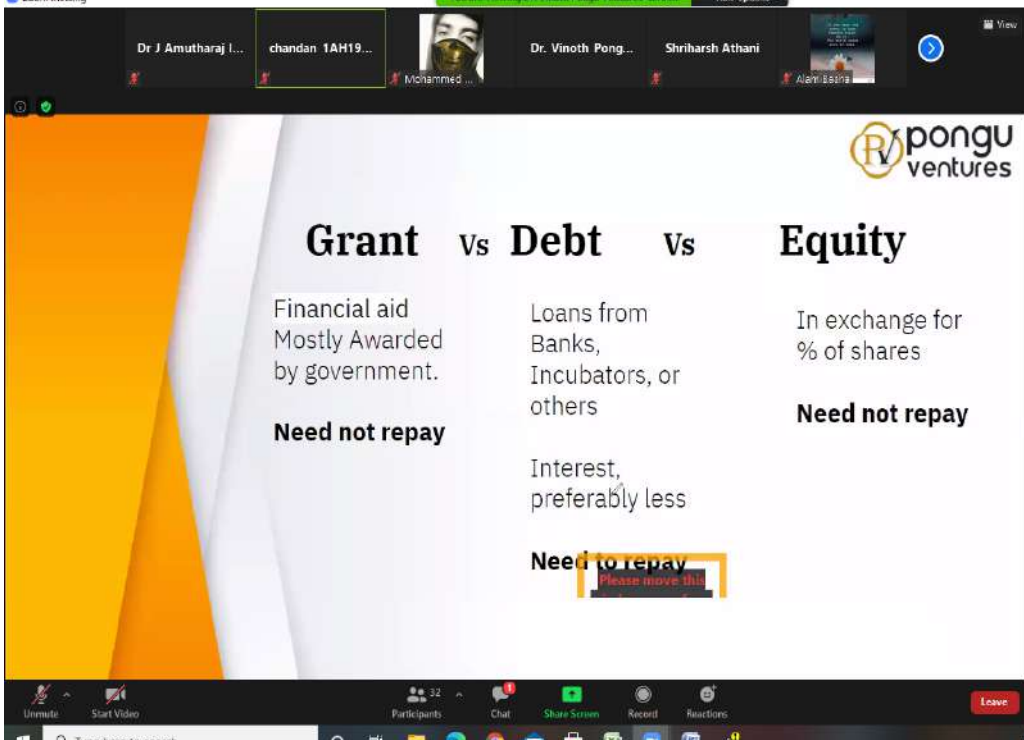
Organizing Committee

Dr D. Sobyia Start up Coordinator	Dr.C.Ramesh, Convener - RRIIC	Dr. J. Amutharaj President - RRIIC
Dr K Aravinthan, NIRF co-ordinator,-RRIIC	Dr R Muruganandam, Professor-ECE, EDC cell.- NISP Team	Dr. Vijaya S.M Innovation Cell - RRIIC

Date & Time : 29th June 2021 @ 3.00 P.M.

Dr.S.Usha Dean - R & I	Dr.T.Chandrashekar, M.Tech., Ph.D Principal	Prof. S.Rajeshwari AP-ISE
Prof. T.Devi AP-CSE		

Event Photographs - Screenshots



The screenshot shows a Zoom meeting in progress. The main screen displays a presentation slide titled "Grant vs Debt vs Equity". The slide compares three funding sources: Grant (Financial aid, Mostly Awarded by government, Need not repay), Debt (Loans from Banks, Incubators, or others, Interest, preferably less, Need to repay), and Equity (In exchange for % of shares, Need not repay). The Pongu Ventures logo is visible in the top right corner of the slide. The Zoom interface shows a list of participants on the right, including Dr. J. Amutharaj, chandan 1AH19..., Dr. Vinoth Pong..., Shriharsh Athani, and others. The bottom of the screen shows the Windows taskbar with various icons and the system clock.

Participants (32)

Find a participant

- DJ Dr. J Amutharaj SE RRCE (Me)
- PP Preethi Pongu Ventures (Host)
- DV Dr. Vinoth Pongu ... (Co-host)
- 1AH19AE087 YASEEN Attar
- 1AH19AS038 Sowmya gs
- ABHISHEK Arnie
- AN Adharsh n Jose
- Alzhay S
- Alam Bashir
- AR Arman R Shetty
- AK ANKIT KUMAR
- A Arif
- BR Bhairathi R (1AH19AS038)
- C chandan 1AH19AS010
- Dhakarshini
- DD Dr. D. SOBWA
- Utharini Beechows



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Zoom Meeting

Participants (32)

Q. Find a participant

Fathima Bee

Harshitha BA

Jai Akhil

Jayadeep Reddy

JD

Meghana BR

Mohammed Shoab (1BAE025)

PAVAN Raj

Pramod r

Roja L

Sathyashree

Shreyas M (1RR19S038)

Shriharsh Athani

SJS

T.M. yashmica

Vijayendra Kulnanur

Dr. Vinoth Pongu Ventures

Go to Settings to activate Windows

Invite

Mute Me

Raise Hand

Leave

32

Participants

Chat

Share Screen

Record

Reactions

Mute

Start Video

Type here to search

30°C Light rain

3:33 PM

6/29/2021

Zoom Meeting

Dr. Vinoth Pongu Ventures is talking...

Participants (31)

Q. Find a participant

Fathima Bee

Harshitha BA

Jai Akhil

Jayadeep Reddy

JD

Meghana BR

Mohammed Shoab (1BAE025)

PAVAN Raj

Pramod r

Roja L

Sathyashree

Shreyas M (1RR19S038)

Shriharsh Athani

SJS

T.M. yashmica

Vijayendra Kulnanur

Dr. Vinoth Pongu Ventures

Go to Settings to activate Windows

Invite

Mute Me

Raise Hand

Leave

31

Participants

Chat

Share Screen

Record

Reactions

Mute

Start Video

Type here to search

30°C Light rain

3:33 PM

6/29/2021

Screenshot of the Online Leadership Talk

35. RRIIC Council Meeting – III

Date : 30.6.2021 between 11.30 A.M. and 1.00 P.M.

The Third Council meeting of RRCE Institute Innovation Cell (RRIIC) is held on 30th June 2021 at 11:30 A.M in the Board Room, Ground floor of the college.

Total Number of Council Member attended the meeting: 42 (26 staff and 16 students)

Screenshot of the virtual meeting



Start up Registration supported by RajaRajeswari Institution Innovation Council (RRIIC)

Start ups established in RRCE during January 2019 – June 2021

Sl.No	Name of the Start up	Founder and CEO	Branch & Year of Passing	Type of Operation
1	Enginomatic Technologies Private Limited, Bangalore	Mr. Akshay Kumar (M) 8296471492	CSE 2020 (10 th September 2020)	Online Tutoring and Student Centric Online Payment Gateway Solution development
2	Love2Farm, Comibatore	Ms.G. Sharmila (M) 7019709370	ECE 2020 (March 2020)	Women Healthcare Solution Provider
3	Onligo Private Limited, Byatarayanapura, Bangalore	Mr. Touheed Khan (M) 6360500763	15 th January 2020	Digital Marketing Solution Provider



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Sl.No	Name of the Start up	Founder and CEO	Branch & Year of Passing	Type of Operation
4	SAV e-Rental, Bangalore	Dr.J.Amutharaj (M) 97427-38238 Dr.D.Sobya (M) 94863-59455	Faculty March 2020	Rental Service Provider for the Construction Industry
5	Paper Projects	Mr.Chandan K.A (M) 70194 - 60285	15 th July 2020	Online Tutoring for Engineering Students and bodysopping
6	Indegenious Wings LLP	Ms. Supritha P Shetty (M) 7338632335	12 th Feb 2021	Mobile App/ Web Appln. based Solution Providers.
7	Nualfas Business Solutions	Aman Ulla (M)	CSE Alumni 2020	IT Services, Product Development and Digital Marketing.
8	Spartans Hub	Gaurav Kumar	CSE Alumni 2019	Web development, Mobile App Development, Online Tutoring
9	Scinartis IT Solution	Syed Nabeeq	CSE Alumni 2018	IT Services, Product Development and Web development
10	Work Benches	Sunil Kumar T S	CSE Alumni 2012	IT Services, Product Development and Web development
11	Technospacio	Siddana Gowda Patil	CSE Alumni 2012	IT Services, Product Development and Security Services

Sample Start up Registration Certificates

Company Name : Indegenious Wings LLP Founders : Sampath & Supreetha P Shetty



Annexure B

GSTIN

29AAIFI5816N1ZE

Legal Name

INGENIOUSWINGS GLOBAL LLP

Trade Name, if any

INGENIOUSWINGS GLOBAL LLP

Details of Designated Partners

1



Name

SAMPATH BHASKARA SHETTY

Designation/Status

PARTNER

Resident of State

Karnataka

2



Name

SUPREETHA PRATHAP SHETTY

Designation/Status

PARTNER

Resident of State

Karnataka



Company Name : Enginomatic Technologies, Bangalore

Founders : Akshay (2020 CSE Passed out)



GOVERNMENT OF INDIA
MINISTRY OF CORPORATE AFFAIRS
Central Registration Centre

Certificate of Incorporation

[Pursuant to sub-section (2) of section 7 and sub-section (1) of section 8 of the Companies Act, 2013 (18 of 2013) and rule 18 of the Companies (Incorporation) Rules, 2014]

I hereby certify that ENGINOMATIC TECHNOLOGIES PRIVATE LIMITED is incorporated on this Eleventh day of February Two thousand twenty under the Companies Act, 2013 (18 of 2013) and that the company is limited by shares.

The Corporate Identity Number of the company is U72900KA2020PTC132525.

The Permanent Account Number (PAN) of the company is **AAFCE8321E** *

The Tax Deduction and Collection Account Number (TAN) of the company is **BLRE10600C** *

Given under my hand at Manesar this Twelfth day of February Two thousand twenty .



Digital Signature Certificate

ALOK TANDON

Deputy Registrar Of Companies

For and on behalf of the Jurisdictional Registrar of Companies

Registrar of Companies

Central Registration Centre

Disclaimer: This certificate only evidences incorporation of the company on the basis of documents and declarations of the applicant(s). This certificate is neither a license nor permission to conduct business or solicit deposits or funds from public. Permission of sector regulator is necessary wherever required. Registration status and other details of the company can be verified on www.mca.gov.in

Mailing Address as per record available in Registrar of Companies office:

ENGINOMATIC TECHNOLOGIES PRIVATE LIMITED

NO.13/1, 1 ST MAIN ROAD, NAGARBHAVI, BANGALORE, Bangalore,
Karnataka, India, 560079



* as issued by the Income Tax Department



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RajaRajeswari Insitution Innovation Council (RRIIC) is receiving the highest rating Four Star from MOE's Innovation Cell for IIC 3.0 during the Academic Year 2020 – 2021



Certificate of Appreciation received from MoE's Innovation Cell / AICTE, Govt. of India



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MHRD'S
INNOVATION CELL
(GOVERNMENT OF INDIA)



INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of HRD Initiative)



Ministry of Education's Innovation Cell(MIC)
Awarded



**RAJARAJESWARI
COLLEGE OF ENGINEERING**



Kumbalagodu, Mysore Road, Bengaluru



Highest Rating: 4 Star in IIC 3.0

RAJARAJESWARI INSTITUTION INNOVATION COUNCIL

is one among "Top 259 out of 2680 Institutions"

across India and one among 41 Institutions in

South West (Karnataka & Kerala Region) which secured 4 Star Rating

**Congratulations to
RajaRajeswari Institution Innovation Council Members**



Poster depicting the Performance of RRIIC in IIC 3.0

Handwritten signature of Dr. C Ramesh

Dr. C Ramesh
Convenor – RRIIC
Prof. & HoD – ME
RRCE
Bangalore

Handwritten signature of Dr. J Amutharaj

Dr. J Amutharaj
President - RRIIC
Prof. & HoD – ISE
RRCE
Bangalore

Handwritten signature of Dr. T Chandrashekar

Dr. T Chandrashekar
Principal
RRCE
Bangalore
Principal
RAJARAJESWARI
COLLEGE OF ENGINEERING
Ramchalli Cross, Bengaluru-74

RAJARAJESWARI COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi

Affiliated to the Visvesvaraya Technological University, Belagavi

Criterion: 3.2.1

Academic Year: 2019-20



2019-20



RajaRajeswari Insittuion Innovation Council (RRIIC)

MoE Innovation Cell Approved: IC201912297

Annual Report of activities of RRIIC for the Academic year 2019 – 2020

Summary of the Activites conducted during the academic year 2019 – 2020

Sl.No	Date(s)	Name of the Activity	Number of Participants
1	14.8.2019	Leadership Talk on “Innovation and Entrepreneurship as Career Opportunity”	177
2	11.9.2019	Workshop on “How to Innovate and Start a Start Up”	165
3	12.9.2019	Leadership Talk on “How to Design and Convert an Idea into a Prototype Model”	35
4	20.9.2019 to 22.9. 2019	Three Day National Level Student Start up & Entrepreneurship Summit (NECSES 2019)	19
5	15.10.2019	One Day Workshop on “Entrepreneurship and Innovation as Career Opportunity”	112
6	9.11.2019	A Story Telling Session on “Product Development Phases”	22
7	18.11.2019	Demo Day – Prototype Expo 2019 by RRIIC & CSE Dept of RRCE	80
8	20.11.2019	RRIIC Council Meeting – I	22
9	11.12.2019	Worskhop on National Innovation & Start up Policy 2019	35
10	18.1.2020	Internal Hackathon for Smart India Hackathon	182
11	21.1.2020	Train the Trainer Session on “Aligning Innovation Strategies to Academic Research”	35
12	26.2.2020 & 27.2.2020	MHRD IIC Innovation Ambassador Training Program organized by RRGi – RRBI, ACSCE, RRCE & RRMCH	324
13	27.2.2020	Sensitization Session on Generation of Innovation and Research funds from Govt. Agencies	32
14	21.4.2020	Webinar on “5G Ideathon”	18
15	24.4.2020	Webinar on “Ideas to hack or Prevent Corona”	17



16	30.4.2020	Virtual Workshop on Novel Ideas to Prevent Novel Virus"	22
17	20.5.2020	Webinar on Design Thinking and Innovative Solutions through IoT	62
18	28.4.2020 to 22.5.2020	MHRD IIC Online Sessions on "Innovation and Entrepreneurship Ambassador Training for Faculty members and Students"	23
19	20.6.2020	Webinar on "IPR and IP Strategy"	22

MHRD Institution Innovation Council (IIC) Establishment:

IIC Establishment Certificate





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Summary Report of Activities for the Academic year 2019 – 2020 (IIC 3.0)

1. Leadership Talk on “Innovation and Entrepreneurship as Career”

Date: 14.8.2019 Wednesday

Timing: 10.00 A.M. – 11.30 A.M.

Venue: Dr APJ Abdulkalam Seminar Hall, RRCE

Objective: To give an exposure to the students and faculty members on Innovation and Entrepreneurship as Career opportunity. Sensitize the students on Innovation of services, product upgradation and customer satisfaction and desirability.

Resource Person:

Dr.G.Vinoth, M.S.Ph.D (U.S.A)

Founder & CEO, Pre-Incubation Consultant

Pongu Ventures, Chennai.

Target Participants : II, III and IV year Engg Students & PG Students and Faculty members

Number of Participants attended: 165 Students and 12 faculty members

Event Poster

 RajaRajeswari College of Engineering, Bangalore Affiliated to VTU, Belagavi. Approved by AICTE, New Delhi & Govt. of Karnataka. Accredited by HLACT, Texas, USA (Internationally) and by NBA (CSE, ECE, EEE, Mech)		    	
		COMED-K: E099 CET Code: E145	
RajaRajeswari Institution Innovation Council (RRIIC)			
Leadership Talk on “Innovation & Entrepreneurship as Career”			
Resource Person : Dr G Vinoth, M.S. Ph.D (USA) Founder & CEO, Start up Venture Designer & Consultant, Pongu Ventures Private Limited, Chennai		Date : 14.8.2019 (Wednesday) Time : 10.00 A.M – 11.30 A.M Venue : Dr APJ Abdulkalam Seminar Hall Second Floor, RRCE	
All are cordially invited			
Certificate will be given to the Registered and attended Participants.		No Registration Fees	
 INSTITUTION'S INNOVATION COUNCIL (Ministry of HRD Initiative)	 pongu ventures	 ENGINOMATIC TECHNOLOGIES	
WhatsApp: +91-90088-45678, Phone: +91-80-28437124/735 Email: admission@rrce.org Website: www.rrce.org		Dr.J.Amutharaj, President - RRIIC Dr.C.Ramesh, Convenor, RRIIC	



Participant attending the Leadership Talk on Innovation & Entrepreneurship delivered by Dr.G.Vinoth, Founder & CEO, Pongu Ventures Private Ltd., Chennai.

2. Workshop on “How to Innovate and Start a Start Up”

Date: 11.9.2019 Wednesday

Timing: 9.30 A.M. – 11.30 A.M.

Venue : Dr APJ Abdulkalam Seminar Hall, RRCE

Objective: To give hands on session to the students and faculty members on Innovation & Start up Establishment. Narrate the students and faculty members on recent technological developments in which they can Innovate new services, aim for product upgradation and improve customer satisfaction & desirability.

Resource Person:

Dr.G.Vinoth, M.S.Ph.D (U.S.A)

Founder & CEO, Pre-Incubation Consultant

Pongu Ventures Private Ltd, Chennai.

Target Participants: II, III and IV year Engg Students & PG Students and Faculty members

Number of Participants attended: 152 Students and 12 faculty members



Dr.G.Vinoth, Founder & CEO, Pongu Ventures Private Ltd., Chennai delivered Session on **“How to Innovate and Start a Start Up”** on 11th September 2019 Wednesday Forenoon Session



Participant listening the Motivational Talk on **“How to Innovate and Start a Start Up”** delivered by Dr.G.Vinoth, Founder & CEO, Pongu Ventures Private Ltd., Chennai.



3. Leadership Talk on “How to Design and Convert an Idea into a Prototype Model”

Date: 12.9.2019 Thursday

Timing: 9.30 A.M. – 11.30 A.M.

Venue : Von Neuman Seminar Hall

Number of Participants : 35

Resource Person :

Mr. Sheethal,

Design and Prototyping Consultant,

Pongu Ventures (P) Ltd., Chennai.

Report of the Leadership Talk: Mr. Sheethal, Design and Prototyping Consultant, Pongu Ventures delivered a leadership talk for the student team members about “**How to Design and convert into a Prototype Model**” in the Von Neuman Seminar Hall / ISE Seminar Hall on 12th September 2019 and in that they taught Students about the factors to be considered and market analysis to reduce cost and how to increase the sales and profit.

Preparation guidance for NEC Entrepreneurship Start up Summit (NECSES 2019) held between 20th September 2019 and 22nd September 2019. **Dr. Vinoth G, CEO**, Pongu Ventures and **Mr. Sheethal, Prototype Consultant**, Pongu Ventures have reviewed all below mentioned presentation for the NECSES summit. They also discussed in detail about the scorecard that will be used to judge the students presentation during the summit.

Scorecard

(0 to 20%) - Strength of the Team, Mentor, Co founders, Advisors, etc

(0 to 10%) - Problem Statement

(0-to 20%) - Uniqueness of idea

(0 to 5%) - Real effort / Hard work put into this Project by the core team

(0–10%) - Technology feasibility

(0–5%) - Business viability or is this Product/Service Commercialization

(0-10%) - Industry collaboration

(0–10%) - Reasonable estimate for prototype or MVP development

Any investment for Prototype or MVP (0–5%)

How impressive is the overall pitch (0-5%)



Session on “How to Design and convert into a Prototype Model” for II year ISE Students



Hands on and discussion Session on “How to Design and convert into a Prototype Model” for Student Team members



4. Report of Participation and Award winning in Three Day National Level Student Start up & Entrepreneurship Summit (NECSES 2019)

Organizer : K.R. Incubation Centre,

National Engineering College, Kovilpatti, TamilNadu

Powered By / Co-Sponsor : Pongu Ventures, Chennai

Date (s) and Duration : 20.9.2019 to 22.9. 2019 (3 Days)

Number of Participants: 19 (18 Students and 1 Faculty member)

Staff Co-ordinator : Dr.J.Amutharaj, Professor and Head, ISE, RRCE

Summary of the Participation of Events by students and faculty:

1. Day 1: 20.9.2019 (Friday)

The following Pre Conference and Pre-Incubation workshops are organized by Pongu Ventures Team sponsored by NEC Business Incubator.

1. Start up Entrepreneurship
2. Problem Discovery
3. Idea generation
4. Co-Founder and Team Building
5. Business Model Canvas

All the 18 students and faculty were attended the workshops in both the sessions.

2. Day 2 : 21.9.2019 (Saturday) Forenoon Session

Inauguration function and conference track events were scheduled between 9:30 a.m. and 12.30 p.m.. During the conference track the speakers have presented in the following themes such as Story of Job Seekers Vs Job Creators, Agriculture seeding our future, Innovation and creativity for better India and how it change the life style of the people of our country, Technical challenges in IoT implementation and Next big thing in Artificial Intelligence.

3. Afternoon Session: Student's Idea Pitch event (1:30 P.M. to 7:00 P.M) :

Out of 11 Ideas presented by our RRIIC students members five ideas are shortlisted for Second level / Final Pitch scheduled on 22nd September 2019 (Sunday), Forenoon session.



Ms.Sharmila Bai and Sumanth, from RRIIC presented their Idea “Delivery Box”



Ms.Sharmila presented the idea “Napkin Vending Machine”



Day 3 : 22.9.2019 (Sunday) - Final Pitching Session

The following teams and participants were selected for final pitching session on 22nd September 2019 (Friday). They are also selected for Co-Incubation Special Award from NEC K.R. Incubation Centre and received a **Cash Prize of Rs. 1500 per Team.**

Sl.No	NAME	SEM/DEPT	IDEA Pitched	Award and Cash Prize Received
1	Yuvaraj.R	5 th Sem, ECE	Hybrid Optical Solar Lighting System	Co-Incubatee Award & Rs. 1500/ Cash Prize
2	Sharmila. G	7 th Sem, ECE	Smart Sanitary Napkin Vending Machine- startup idea)	Co-Incubatee Award & Rs. 1500/ Cash Prize
3	Sharmila Bai. B Sumanth S.K.	7 th Sem, ECE	Smart Delivery Box	Co-Incubatee Award & Rs. 1500/ Cash Prize
4	M.Akshay Kumar	7 th Sem CSE	STUDWALL – a Digital Currency Web App	Co-Incubatee Award & Rs. 1500/ Cash Prize
5	Mr.Ankit kumar Ms. Monika Singh Ms. Neha Durgadmath	5 th Sem ISE	Waste Decomposer for Manure preparation	Co-Incubatee Award & Rs. 1500/ Cash Prize

5. One Day Workshop on “Entrepreneurship and Innovation as Career Opportunity”

Date & Timing : 15th October 2019, Tuesday, 9.00 AM – 4.00 P.M

Venue : Von Neumann Seminar Hall, II Floor, RRCE, Bangalore

Resource Person

Dr.G.Vinoth, M.S.Ph.D (U.S.A)

Founder & CEO, Pre-Incubation Consultant

Pongu Ventures, Chennai.

About Resource Person : Dr G. Vinoth, Founder and CEO is a Startup Designer, with global experience currently spearheads technology business incubation programs in both Corporate and Academia. He selects, train, coach aspiring entrepreneurs, for creating new startup ventures. Currently he is mentoring, advising and coaching more than 10 startups.

Topics to be covered:

1. Sensitization on choosing to start own business as an Entrepreneurs
2. How to become a Job Creator

3. Entrepreneurship Career is a Passion, not money making
4. Getting Right Co Founder / Partner
5. How to build a great Team
6. When to Pivot, not being stubborn

For Registrations Contact : Dr.Amutharaj Joyson,

President, RRIIC, Bangalore.

Email Id : amutharaj@yahoo.com

(M) : 97427-38238

Number of Participants: 112



Resource Person Dr G Vinoth is with Dr R. Balakrishna, Principal, RRCE and Dr J Amutharaj, President, RRIIC & Professor and HoD – ISE.



Participants in the Workshop on **“Entrepreneurship and Innovation as Career Opportunity”** delivered by Dr.G.Vinoth, Founder & CEO, Pongu Ventures Private Ltd., Chennai.

6. A Story Telling Session on “Product Development Phases”

Date & Timing: 9th November 2019, 9.00 AM – 11.00 A.M

Venue : Von Neumann Seminar Hall, II Floor, RRCE, Bangalore

Resource Person

Mr.Yuvraj N

Campus Innovator - RR IIC

Founder, Unique Path

About Resource Person:

Mr.Yuvraj is a Third year ECE Department student and founder of Unique Path, a startup company doing its operations on Fiber optics based lighting.

Topics to be covered:

1. Problem Description
2. Need for Alternative Solution
3. Survey and Analysis
4. Proposed Solution
5. Prototype Modeling



6. Product Development Life Cycle

7. Iterative Model of Product Development and Customization

For Registrations Contact:

Dr. Amutharaj Joyson,

President, RRIIC, Bangalore.

Number of Students Participate: 22

7. Demo Day – Prototype Expo 2019 – by RRIIC & CSE Dept.

Date and Time – 18th Nov 2019, 10:00 AM

Venue : 5th Floor Lobby, RRCE

Chief Guest : Mr. Maaz Shaikh, Software Development Engineer, CISCO Systems, Bangalore

About the Programme:

Demo day of RRIIC was held on Nov 18th 2019, from 10 a.m. to 3 p.m. at 5th Floor Lobby at RRCE. The event was organized by the faculty coordinators of RRIIC, Dr. Sheba Selvam, Social Media Co-ordinator RRIIC and Dr. S. Usha, Head of CSE Dept and Vice President of RRIIC.

20 Teams (80 students) from 2nd and 3rd year engineering were participated in the event. Mr. Maaz Shaikh, Software Development Engineer, CISCO Systems, Bangalore was the Chief Guest. Dr. T. R Gopalakrishnan Nair, Rector and Professor, RRG, also graced the occasion. Students exhibited and demonstrated their projects and working prototypes in latest trends and technologies such as Internet of Things (IOT), Machine Learning, Artificial Intelligence and Computer Vision. Three project teams won the cash prizes.

PRIZE WINNERS

S.No	Project Title	Team Members	Prize
1	SPI BOT	Vishal Singh, Yuvraj V	1st Prize (Rs 1500)
2	Smart Irrigation	Firdose Tabassum, R Naga Durga, Rohini H	2nd Prize (Rs 1000)
3	Smart Helmet	Rajeena R, Shalini G, Sharanya B	3rd Prize (Rs 500)

OUTCOME:

This demo day is conducted at the Institute level for the last four years, keeping in mind the pursuance of student's natural curiosity and imagination to showcase their creativity and enable activity based learning. This demo day activities are providing an unique platform to the participating students for their innovations and new experiences with the community.



8. Workshop on "National Innovation and Start Up (NISP)"

Date: 11th December 2019 **Time :** 10.20 A.M. – 12.30 P.M.

Resource Person:

Dr.G.Vinoth, M.S.Ph.D (U.S.A)

Founder & CEO,

Incubation Eco System Enabler,

Pongu Ventures, Chennai.

Venue: Von Neumann Seminar Hall, II Floor, RRCE,



Co-ordinator : Dr.S.Usha, Vice President, RRIIC & Dean – Research & Innovation, Bangalore.

Number of Participants : 35



The poster is for a workshop titled "WORKSHOP ON NATIONAL INNOVATION AND START-UP POLICY (NISP)". It is organized by RajaRajeswari College of Engineering as part of a MIC Driven Activity. The event is scheduled for Wednesday, December 11th, 2019, from 10:30 AM to 12:30 PM. The venue is the Auditorium at RajaRajeswari College of Engineering, #202, Kambipura, Mysore Road, Bangalore - 74. The poster features logos for the Institution's Innovation Council (Ministry of HRD Initiative) and Pongu Ventures. It also mentions that there is free entry for college students and faculties, and an e-certificate will be provided for all participants. A photo of Dr. Vinoth, MS, PhD., (USA), Startup Designer at Pongu Ventures, is included.

WORKSHOP ON NATIONAL INNOVATION AND START-UP POLICY (NISP)

Organized by RajaRajeswari College of Engineering
(Part of MIC Driven Activity)

**WEDNESDAY,
DECEMBER 11TH, 2019
10:30AM - 12:30PM**

Venue:
Auditorium,
RajaRajeswari College of Engineering
#202, Kambipura, Mysore Road
Bangalore - 74

FREE ENTRY FOR COLLEGE STUDENTS AND FACULTIES
(e-certificate will be provided for all participants)

DR.VINOTH, MS, PHD., (USA)
Startup Designer,
Pongu Ventures (Startup Pre-Incubation Company)

POWERED BY  **pongu ventures**

Poster – NISP 2019 Worskhop

Dr. G. Vinoth conducted a **workshop for first year students, on National Innovation and Start up Policy 2019** with the special focus on **Student Startup Policy** as per **MIC guidelines**. The National

Innovation and Startup Policy 2019 for students of how to enable our institute to actively engage, and encourage our 1st and 2nd year students to participate in Entrepreneurial activities thereby they are well prepared to launch their startup venture when they enter into final year. He also selected few Entrepreneurs among first year students in first year who have shown interest in startup programs. The students got awareness about setting up a start up (including social start ups) and working part-time for the start ups while studying. Also Students are advised to work on micro innovative projects and setting up start ups (including Social Start ups) or work as intern / part-time in startups while studying.



Group Photo of the Workshop

9. RRIIC Council Meeting – I

The First Council meeting of RRIIC is held on 20th November 2019 between 11.00 A.M. and 12.30 P.M. Dr R Balakrishna, Principal informed the roles and responsibilities of Council members. Dr J Amutharaj, President of RRIIC, sensitized the council members about the schedule of activities to be held during the academic year 2019 – 2020.

Agenda :

1. Institution Innovation Council formation & Welcome the members
2. Roles and Responsibilities of Council members
3. Action Plan for the year 2019 – 2020
4. Activities such as IIC Calendar activities, MIC Activities & Self-Driven Activities
5. Resolutions passed in the council meeting

Number of members present : 22



Photo of the RRIIC Council meeting held on 20th Nov 2019

10. Smart India Hackathon – Internal Hackathon

Date : 18.1.2020 time : 9.30 A.M. to 3.30 P.M.

Report of Internal Hackathon for Smart India Hackathon (SIH) 2020 : Dr.G.Vinoth, CEO and Incubation Eco System Enabler, Pongu Ventures has served as a jury member for Smart India Hackathon event held on 18th January 2020 (Saturday) . He was serving as Technical Advisor and offering advise of technological advancements to improve the software and hardware ideas which can be submitted to SIH portal and enable them to develop further as a product. It was conducted in two categories such as Hardware Edition and Software edition as per the guideline of MHRDs Innovaton Cell & Smart India Hackathin organizing Team.

Number of Teams – 52 Team (182 Students)



RajaRajeswari College of Engineering

(Approved by AICTE, New Delhi, Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi)

#14, Ramohalli Cross, Kumbalgotu, Mysore Road, Bengaluru - 560074



Organisers



MHRD



Platinum Partner



RajaRajeswari
College of Engineering

Internal Hackathon for
Smart India Hackathon 2020

SOFTWARE EDITION

VENUE : DR.APJ ABDUL KALAM CONFERENCE ROOM

DATE : 18-01-2020 TIME: 10 AM - 01 PM

PRINCIPAL

SPOC

IIC PRESIDENT

INTERNAL JURY

EXTERNAL JURY



Dr.T.Chandrashekar

IIC Head



Mrs.J.Rajalakshmi

AP,CSE



Dr.J.Amutharaj

HoD,IS



Dr.S.Usha

Dean RI



Dr.D.Sobya

ASPECE



Dr.Sheba Selvam

ASP,CSE



Dr.G.Vinoth

CEO Pongu Ventures



Dr.T. Senthil Kumaran

Dean-ACS CE

Partners



DEVNET

KPIT

Communication Partner



Poster – Software Edition

Organisers



MHRD



Platinum Partner



RajaRajeswari
College of Engineering

Internal Hackathon for
Smart India Hackathon 2020

HARDWARE EDITION

VENUE : DR.APJ ABDUL KALAM CONFERENCE ROOM

DATE : 18-01-2020 TIME: 10 AM - 01 PM

PRINCIPAL

SPOC

IIC PRESIDENT

INTERNAL JURY

EXTERNAL JURY



Dr.T.Chandrashekar

IIC Head



Mrs.J.Rajalakshmi

AP,CSE



Dr.J.Amutharaj

HoD,IS



Dr.C.Ramesh

IIC Convenor



Dr.Satheesha V

ASP, Mech



Dr.N.Amuthan

HoD,EEE



Dr.G.Vinoth

CEO Pongu Ventures



Dr.Kalyanam Kannan

Director - CTDS

Partners



DEVNET

KPIT

Communication Partner



Poster – Hardware Edition



L to R : Dr.T.Senthil Kumaran, Dean - ACSCE, Dr.K.Kalyanamkannan, Director - CTDS, Dr.T.Chandrashekar, Principal, RRCE and Dr. G.Vinoth, CEO, Pongu Ventures

Photo: Inauguration of Smart India Hackathon 2020 on 18th January 2020 (Saturday), 10:00 A.M.



Exhibition and Evaluation of Prototype in the Internal Hackathon

11. Train the Trainer Session on “Aligning Innovation Strategies to Academic Research”

Date : 21st January 2020 time : 11.00 A.M. – 1.00 P.M.

**RajaRajeswari
College of Engineering**

**INSTITUTION'S
INNOVATION
COUNCIL**
(Ministry of HRD Initiative)

**ALIGNING INNOVATION ECOSYSTEM
STRATEGIES WITH ACADEMIC R&D**

Organized by
RajaRajeswari College of Engineering

**TUESDAY,
JANUARY 21ST, 2020
11:30AM - 01:00PM**

Venue:
4th Floor, Seminar Hall,
RajaRajeswari College of Engineering
Ramohalli Cross, Kumbalgodu,
Mysore Road, Bangalore - 74.

**DR.VINOTH, MS, PHD., (USA)**
Startup Designer,
Pongu Ventures (Startup Pre-Incubation Company)

POWERED BY  **pongu
ventures**

Poster: Train the Trainer Session on 21.1.2020



Group Photo: Train the Trainer Session conducted on 21.1.2021

About the Programme:

Dr.G.Vinoth, CEO delivered a session on “Aligning Innovation Strategies to Academic Research” for 35 faculty members from RajaRajeswari College of Engineering and also the faculty members of Southern



RajaRajeswari College of Engineering

(Approved by AICTE, New Delhi, Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi)

#14, Ramohalli Cross, Kumbalagodu, Mysore Road, Bengaluru – 560074



Bangalore Region Engineering colleges on 21st January 2020 (Tuesday) between 11:00 A.M. to 1:00 P.M.

Number of Participants : 35 Faculty members (both Internal and External members)

12.MHRD IIC INNOVATION AMBASSADOR TRAINING PROGRAM

Date(s) : 26th & 27th February 2020 Time : 9.30 A.M. – 5.00 P.M.

Number of Participants : 324 from South West Region IIC Institutions

RAJARAJESWARI GROUP OF INSTITUTIONS (RRGI)
*The Founder Chancellor, President, Members of the Board of Management
 Faculties, Staff and Students*
Cordially Invite you for the
Inauguration of IIC Ambassador Training Program

Presided by Dr. A.C. Shanmugam <i>B.A. LLB, FIMSA, FRCPS (Glasgow, UK)</i> Founder Chancellor & Chairman Dr. M.G.R. Educational & Research Institute & RajaRajeswari Group of Institutions	on 26th February 2020, at 09.30 am	Chief Patron Sri. A.C.S Arun Kumar <i>B.Tech (Hons), LMISTE., MIET., (UK), LMCSI.,</i> President Dr. M.G.R. Educational & Research Institute & RajaRajeswari Group of Institutions
Chief Guest Dr. Sanjay H Inamdar Chairman AICTE Startup Policy Committee	Special Guest Mr. B. Sampath Rao Chief Scientist & Joint Head NTAF, CSIR- National Aero Space Laboratories	

Guests of Honour

Mr. Dipan Kumar Sahu <i>National IIC Coordinator</i> MIC, Govt. of India	Dr. K. Elangovan <i>Assistant Innovation Director</i> MIC, Govt. of India	Mr. Pankaj Pandey <i>SWRO Zonal Coordinator</i> MIC, Govt. of India	Mr. Ankush Sharma <i>Innovation Officer</i> MIC, Govt. of India
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Distinguished Guests

Dr. G. Srinivas <i>Joint Secretary</i> UGC, SWRO, Bengaluru	Dr. K. Gayathri Reddy <i>Regional Director</i> VTU, Bengaluru	Padmasree Prof. R.M. Vasagam <i>Former Scientist, ISRO</i> Former Vice Chancellor, Anna University
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Dr. S. Vijayanand, M.Tech, Ph.D <i>Executive Director</i> RajaRajeswari Group of Institutions	Sri. C.N Seetharam, IAS (Retd.) <i>Chief Executive Officer</i> RajaRajeswari Group of Institutions	Prof. Dr. S. Jeyabalan., M.E., MBA, Ph.D <i>Special Officer</i> RajaRajeswari Group of Institutions
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Dr.Sathyamurthy <i>Dean,</i> RajaRajeswari Medical College & Hospital	Dr.Naveen S <i>Principal,</i> RajaRajeswari Medical College & Hospital	Dr.M.S.Murali <i>Principal,</i> ACS College of Engineering	Dr.T.Chandrasekhar <i>Principal,</i> RajaRajeswari College of Engineering
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Participants of the Session : Design Thinking and Innovation – MHRD IA Training



Participants of the Session : Pre-Incubation and Incubation – MHRD IA Training

Our Innovation Amabassadors of RRCE

1. **Dr.J. Amutharaj, President, RRIIC & Professor and Head – ISE,**
2. **Dr.D.Sobya, Associate PRfoessor, ECE Dept, RRCE**
3. **Prof. Sincy Kuruvilla, Asst. Professor, EEE Dept., RRCE**





13. Sensitization Session on “Getting of Innovation and Research funds from Govt. Agencies”:

Date : 27.2.2020 Time : 1.00 P.M. to 2.00 P.M

Venue : Seminar Hall Second Floor, RRCE

Resource Person :

Dr.K.Ilangovan,

Asst. Innovation Officer, MIC

NEAT Special Officer - MHRD IIC,

New Delhi

Number of Participants: 32 Faculty members



Photo of the Session

14. Webinar on “5G Ideathon”

Date : 21st April 2020 (Tuesday) **Time :** 5.30 P.M. & 7.00 P.M.

Objective: The objective of the session is to encourage and guide the student innovators and mentors (faculty members) to submit their novel and innovative ideas to the "5G Ideathon" organized by MHRD's Institute Innovation Cell (MIC).

Resource Person:

Dr.G.Vinoth, M.S. Ph.D (USA)


Start up Venture Designer,

Pongu Ventures, Chennai

Number of Faculty members Participated: 7

Number of Student Innovators Participated: 11

Total No of Participants: 18



RAJARAJESWARI GROUP OF INSTITUTIONS

5G

WEBINAR & IDEATHON ON 5G




Part of MIC Driven Activity

Webinar on 5G : Tuesday, April 21st at 5.30 PM - 7.00 PM

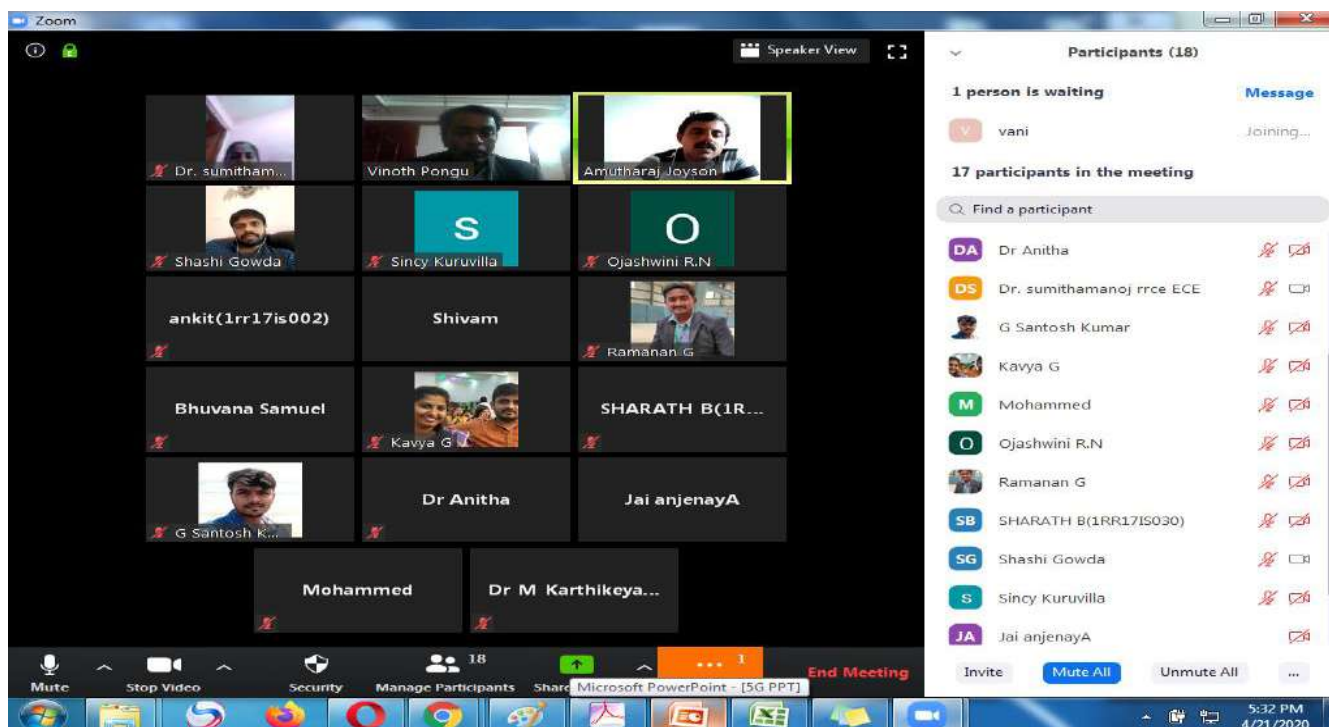
Join us on Zoom Meeting ID : 8634386115

✓ Ideas Generated by anyone can be submitted in www.5ghackathon.in

WEBINAR POWERED BY DR VINOOTH

	DR.VINOOTH, MS, PHD., (USA) Pongu Ventures (Startup Pre-Incubation Company)
	DR.AMUTHARAJ IIC President, RajaRajeswari College of Engineering, Bangalore
	DR.RAMANAN IIC President, ACS College of Engineering, Bangalore

Poster – 5G IDEATHON



Outcome : Dr.D.Soby and Mr.Yuvraj has sent the proposal to 5G Ideathon on 1st May 2020.

Title of the Idea Proposal: Integrated Wireless Utility Network for Smart City Applications

15. Webinar on “Ideas to hack or Prevent Corona”

Date: 24th April 2020 (Friday) between 3.30 P.M. & 5.30 P.M.

Resource Person:

Dr.G.Vinoth, M.S.Ph.D (U.S.A)

Founder & CEO,

Incubation Eco System Enabler,

Pongu Ventures, Chennai.

Objective: The objective of the session is to encourage and give exposure to the faculty members and student innovators of RRIIC to think out of box and guide them to come out with the Technological Solution for COVID 19 Patient Identification and Tracking.






IDEAS TO HACK OR PREVENT CORONA

(Part of IIC Self Driven Activity)

Date : 24 April 2020 (Friday) 3.30 P.M

How to Join this Ideathon?

Please download Zoom meeting software in your laptop or mobile. Preferably Laptop.
Meeting ID : **8634386115**



IDEATHON ONLINE MEETING HOSTED BY
DR.VINOTH, MS, PHD., (USA)
Pongu Ventures (Startup Pre-Incubation Company)

POWERED BY  **pongu ventures**

Poster

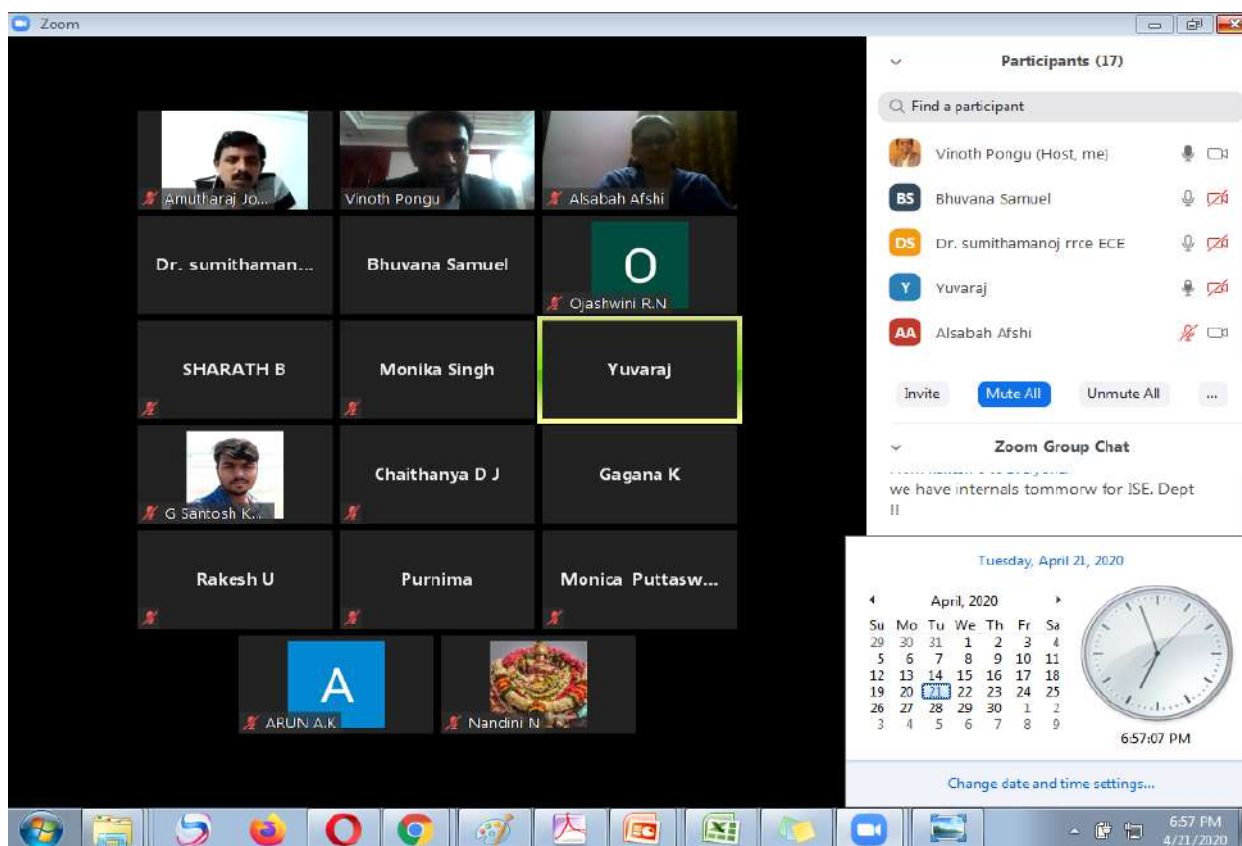
Virtual Platform : Zoom

Number of Faculty members Participated: 6

Number of Student Innovators Participated: 11

Total: 17

Webinar Live Screenshot :



The screenshot shows a Zoom webinar interface. The main window displays a grid of 12 participants. The top row includes Amutharaj Jo..., Vinoth Pongu, and Alsabah Afshi. The second row shows Dr. sumithaman..., Bhuvana Samuel, and a placeholder 'O'. The third row features SHARATH B, Monika Singh, and Yuvaraj (highlighted with a yellow border). The fourth row includes G Santosh K..., Chaithanya D J, and Gagana K. The fifth row shows Rakesh U, Purnima, and Monica Puttasw... The bottom row has ARUN A.K and Nandini N. On the right side, the 'Participants (17)' list shows Vinoth Pongu (Host, me), Bhuvana Samuel, Dr. sumithamanoj rrce ECE, Yuvaraj, and Alsabah Afshi. Below this is the 'Zoom Group Chat' section with a message: 'we have internals tomorow for ISE. Dept II'. At the bottom right, there is a calendar for April 2020 and a clock showing 6:57:07 PM on Tuesday, April 21, 2020.



16. Virtual Workshop on Novel Ideas to Prevent Novel Virus

Date : 30th April 2020 (Wednesday) between 9.30 A.M. & 12.30 P.M.

Resource Person:

Dr.G.Vinoth, M.S.Ph.D (U.S.A)

Founder & CEO,

Incubation Eco System Enabler,

Pongu Ventures, Chennai.

Objective: To give hands on exposure to the faculty mentors and student innovators of RRIIC to think out of box and deliver the Technology based Solutions to Identify and Track COVID 19 Patients using Cloud Computing and Sensor Devices and Sensor Network Technologies.

Number of Faculty members Participated: 7

Number of Student Innovators Participated: 15

Total: 22

Poster

The poster is for a virtual workshop titled "NOVEL IDEAS TO PREVENT NOVEL VIRUS". It is part of the IIC Self Driven Activity. The date and timing are 30 April 2020, from 9.30 A.M. to 12.30 P.M. The poster includes logos for the Rajarajeswari Group of Institutions, Institution's Innovation Council, and Pongu Ventures. It also features a photo of Dr. Vinoth, MS, PhD, (USA) and mentions that the workshop is organized by him. The meeting ID is 8634386115 and the password is rrgroup. The poster is powered by Pongu Ventures.

RAJARAJESWARI GROUP OF INSTITUTIONS

INSTITUTION'S INNOVATION COUNCIL

NOVEL IDEAS TO PREVENT NOVEL VIRUS

(Part of IIC Self Driven Activity)

Date & Timing : 30 April 2020, 9.30 A.M. - 12.30 P.M

How to Join this Ideathon?

Please download Zoom meeting software in your laptop or mobile. Preferably Laptop.
Meeting ID : **8634386115** Password : **rrgroup**

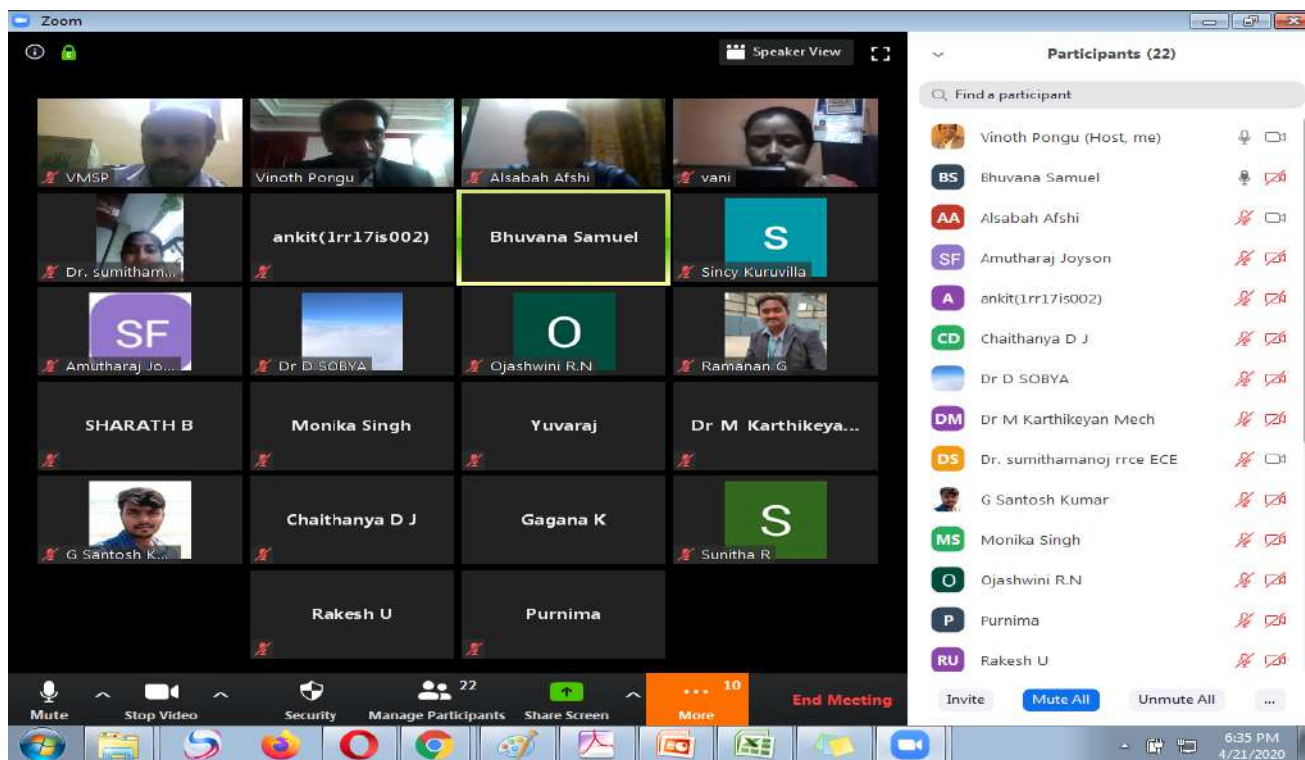
AN IDEA GENERATION WORKSHOP ORGANIZED BY

DR.VINOTH, MS, PHD., (USA)

Pongu Ventures (Startup Pre-Incubation Company)

POWERED BY **pongu ventures**

Webinar Live Screenshot :



17. Webinar on Design Thinking and Innovative Solutions through IoT

Date: 20.5.2020 Time: 5.00 P.M. – 6.30 P.M.

Resource Persons:

Mrs.Neha Singhal,

Asst. Professor, ISE Dept., RRCE

Ms.Neha Bothra, (2017 ISE Alumni)

Technopreneur,

Virtual Platform : Zoom

Number of Participants: 62

Outcome: Students are given sensitization and awareness on IoT Technology for Design and implmenet solutions for social Problems.



Webinar on

“Design Thinking, Innovative Solutions using Internet of Things (IoT) Technology”

Date: 20.5.2020 Time: 5:00 PM to 6:30 PM

Resource Persons



Neha bothra
(RRCE ISE Alumni 2017)
Technopreneur



Prof. Neha Singhal
Asst. Prof. – ISE
RRCE, Bangalore

Resource Person: Ms.Neha Bothra is an Technopreneur, delivering invited talks on “Design Thinking and Innovation using Technology” for the students and young entrepreneurs in and around Bangalore.

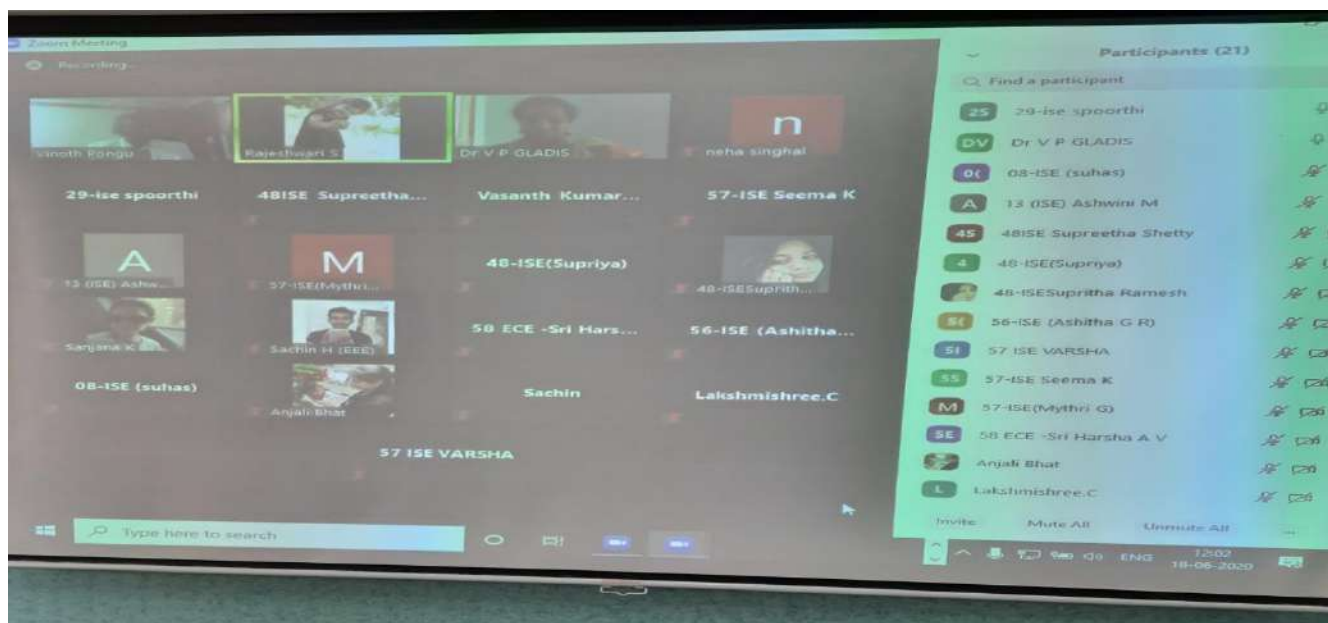
All are cordially invited to join for the Zoom meeting

Zoom Meeting Id: 724 8367 0404

Password : 0vgLQm

Dr.J.Amutharaj
President – RRIIC

Dr.T.Chandrashekar
Principal



Sample Screenshot of the Webinar session



18. MHRD IIC Online Sessions on “Innovation and Entrepreneurship Ambassador Training for Faculty members and Students”

Number of Students attended : 16

Number of Faculty attended and certified by MIC: 7

1. Dr.J.Amutharaj, Professor and HoD – ISE
2. Dr.D.Sobya, Associate Professor, ECE
3. Dr.Sumitha Manoj, Associate Professor, ECE
4. Prof. Sincy Kuruvilla, Asst. Professor, EEE
5. Prof. Sashithar, Asst. Prof., CSE
6. Prof. Mahentesh Mathapati, Asst. Prof., CSE
7. Prof. Ramkumar P, Asst. Prof., CSE

Sample Certificate:



Dr. Sumitha Manoj, Associate Professor, ECE, RRCE



19. Webinar on “IPR and IP Strategy”

Date : 20th June 2020 **Time :** 10.30 A.M. – 12.30 P.M.

Objective: The objective of this webinar on “IPR and IP Strategy” is to encourage and mentor the student innovators to conceive an idea, how to convert that idea into an Intellectual Property Right (IPR) and give an exposure on IP Strategy.

Resource Person: Mr.Nithin Sharma,

IP Strategist & Innovation Management – 5G & IoT
Qualcomm, Bangalore.

Number of Student Innovators Participated: 22

Outcome : Students and faculty members were given exposure on how to file a patent and IPR with Indian Patent Controller's office and getting the granted patent and need for Innovation and Patent filing for upcoming technology based solutions for societal programs.

Poster

Rajarajeswari Group of Institutions
Center for Test and Data Sciences

RajaRajeswari Business Incubator (RRBI)

Mr. Nitin Sharma
IP Strategist, Innovation Management, 5G, IOT
Qualcomm

INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD Initiative)

LIVE WEBINAR
Demystifying Intellectual Property and IP Strategy

Zoom Meeting ID : 939 6006 4650
Password : 244329
2 pm on Saturday, 20 June 2020

First 500 students logging in thro Zoom will get an opportunity to interact with the speaker directly. The session will be aired LIVE on YouTube for the benefit of all other students.

SelectSmart
Digital Collaborative Platform



Sample Screen Shots:

DE	Dr. Essaki Muthu (Host, me)	
MP	Muniyandi P, 1990 Mech	
A	Aasha	
A	Abinaya	
DE	Dr. Essaki Muthu 1996EC	
S	Manickam Sundaram	
<div>Invite Mute All Unmute All ...</div>		
JC	Jawahar C	
KV	Karthi VS Mech'18	
S	Manickam Sundaram 93ME	
P9	Prem 91 Batch	
S	Sasikanth	
S	Senthil	
SK	Senthil Kumar	
VS	Velappan Sujatha 2003CS	
AJ	Amutharaj Joyson	



RajaRajeswari College of Engineering

(Approved by AICTE, New Delhi, Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi)

#14, Ramohalli Cross, Kumbalodu, Mysore Road, Bengaluru - 560074



Start up Registration supported by RajaRajeswari Institution Innovation Council (RRIIC)

Start ups in RRCE during January 2019 – December 2020

Sl.No	Name of the Start up	Founder and CEO	Branch & Year of Passing	Type of Operation
1	Enginomatic Technologies Private Limited, Bangalore	Mr. Akshay Kumar (M) 8296471492	CSE 2020 (10 th September 2020)	Online Tutoring and Student Centric Online Payment Gateway Solution development
2	Hypro, Bangalore	Ms.G. Sharmila (M) 7019709370	ECE 2020 (20 th September 2019)	Women Healthcare Solution Provider
3	Onligo Private Limited, Byatarayanapura, Bangalore	Mr. Touheed Khan (M) 6360500763	15 th January 2020	Digital Marketing Solution Provider
4	SAV e-Rentals Private Limited, Bangalore	Dr.J.Amutharaj (M) 97427-38238 Dr.D.Sobya (M) 94863-59455	Faculty March 2020	Rental Service Provider for the Construction Industry

RajaRajeswari Institution Innovation Council (RRIIC) is receiving Four Star rating from MHRD's Innovation Cell for IIC 2.0 for the Academic Year 2019 – 2020



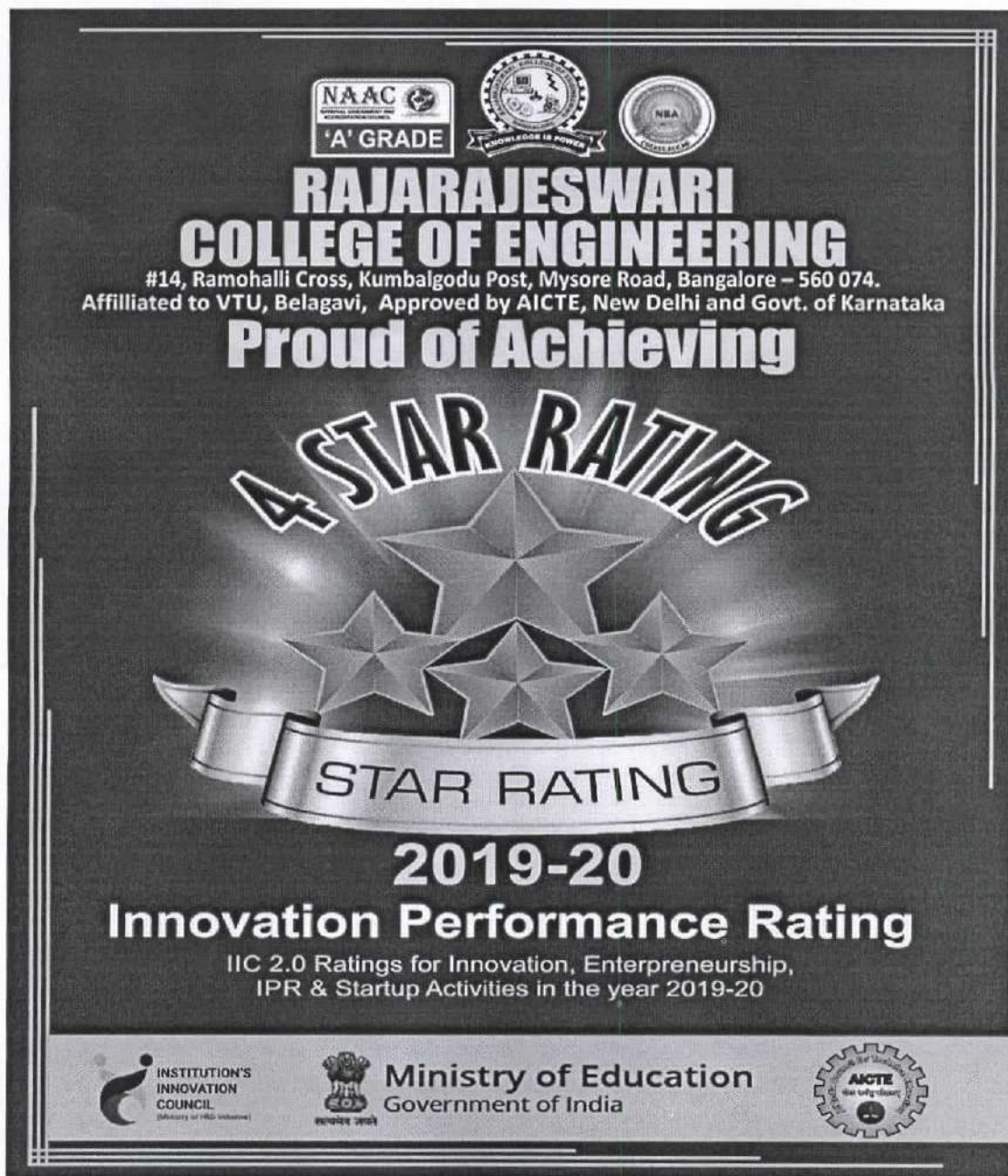
Certificate of Appreciation received from MoE's Innovation Cell / AICTE, Govt. of India



RajaRajeswari College of Engineering

(Approved by AICTE, New Delhi, Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi)

#14, Ramohalli Cross, Kumbalgodu, Mysore Road, Bengaluru - 560074



Poster depicting the Performance of RRIIC in IIC 2.0

Dr. C Ramesh
Convenor - RRIIC
Prof. & HoD - ME
RRCE
Bangalore

Dr. J Amutharaj
President - RRIIC
Prof. & HoD - ISE
RRCE
Bangalore

Dr. T Chandrashekar
Principal
RRCE
Bangalore
Principal
RAJARAJESWARI
COLLEGE OF ENGINEERING
Ramohalli Cross, Bengaluru-74

RAJARAJESWARI COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi

Affiliated to the Visvesvaraya Technological University, Belagavi

Criterion: 3.2.1

Academic Year: 2018-19



2018-19



RajaRajeswari Institution Innovation & Incubation Cell (RRIIC)

Annual Report of activities of RRIIC for the Academic year 2018 – 2019

Summary of the Activities conducted during the academic year 2018 – 2019

Sl.No	Date(s)	Name of the Activity	Number of Participants
1	10.8.2018	Motivation Session on “Entrepreneurship as Career”	74
2	3.8.2018 & 4.8.2018	WeCon 2018 - Women Entrepreneurship Conclave 3 rd & 4 th September 2018	03
3	6.9.2018	Technology Awareness Session Innovative Futuristic Applications of Artificial Intelligence for social change	55
4	30.10.2018	Story of Successful Entrepreneur – by Mr.Anil Nair, Founder & CEO -Anil NayarClasses.com, Hyderabad	255
5	13.2.2019	Inauguration and installation of RajaRajeswari Innovation and Incubation Cell	272
6	13.2.2019	Leadership Talk on “How to Innovate and Start a Start Up” for CSE, ECE, EEE and ISE Students	272
	14.2.2019	Leadership Talk on “How to Innovate and Start a Start Up” for CSE, ECE, EEE and ISE Students	182
7	13.3.2019 to 15.3.2019	Three Day Workshop on “Innovation and Start up” on 13 th – 15 th March 2019	52
8	23.4.2019 to 26.4.2019	Three Day Workshop on Design Thinking and Six Hat Thinking Techniques	55
9	26.4.2019	Technology Awareness Programme on "Thrust Areas for Mobile Application Development and Innovations and Improvement"	52
10	21.5.2019	Project / Prototype Exhibition May 2019	55

Reports of the Activities conducted during the Academic year 2018 – 2019

1. Motivation session on “Entrepreneurship as Career”

Date : 10.8.2018 Friday

Timing: 10.30 A.M to 12.30 A.M

Venue: Von Neuman Seminar Hall, Second Floor

Resource Person:

Dr.G.Pavan, M.B.A., Ph.D,

Professor and Head – Management Studies,

ED Cell Co-ordinator, RRCE, Bangalore.



Activity Report: Students and faculty members are given orientation on Entrepreneurship as career and how to start their own start up venture. They brainstormed on Creative thinking, Practical Entrepreneurial skills and given details on successful National and Local Entrepreneurs. Student & faculty members are motivated to choose Entrepreneurship as career choice.

Number of Students Attended the Session: 62

Number of Faculty members attended: 12

Total : 74 participants

Poster

Raja Rajeswari College of Engineering
Mysore Road, Bangalore – 560078
RajaRajeswari Innovation Club

Motivational Session

on

Entrepreneurship as Career

Date : 10.8.2018 (Tuesday) Time 10.00 A.M. – 12.30 P.M.

Venue : Von Neuman Seminar Hall, 2nd Floor

Resource Person :

Dr.Pavan G, M.B.A., Ph.D

Associate Prof. & HoD & RRCE - ED Cell Coordinator,

Department of Management Studies,

RajaRajeswari College of Engineering,

Bangalore.



Participants attending the session on “Entrepreneurship as Career”

2. Participation of Students in WeCon 2018 - Women Entrepreneurship Conclave 3rd & 4th September 2018

Three students of ISE Department have participated in WeCon 2018 - Women Entrepreneurship Conclave 3rd & 4th September 2018 organized by AICTE and International Institute of Waste Management (IIWM), Bangalore.

Sl.No	Name of the Students	Year of Study	Dept.
1	Shraddha Shankar Bhat	III year	ISE
2	Anjali K.R.	III year	ISE
3	Ms.Charishma M N	III year	ISE

Photographs of the Event



3. Technology Awareness Session on “Innovative Futuristic Applications of Artificial Intelligence for Social Change

Resource Person : Dr. Anitha Jeyabalan,
Professor, Dept. of CSE,
Dayanand Sagar Academic of Technical & Management,
Bengaluru.

Date & Time : 6th September 2018 (10.45AM to 1.45AM)

Venue : Von Neuman Seminar Hall, 2nd Floor, RRCE

Target Participants : III year and IV year ISE Students

Number of Students Attended: 55 students

OUTCOME OF THE PROGRAM:

- ❖ Introduction to Artificial Intelligence
- ❖ Artificial Intelligence Implementations in the Past
- ❖ Applications of AI in the near future

- ❖ Advantages in usage of Robots as Servants
- ❖ Threats in Automation (Job loss)
- ❖ Innovative Application areas of Artificial Intelligence for solving societal problems

Sample Photographs



4. Story of Successful Entrepreneur by Mr.Anil Nair, Founder & CEO -Anil NayarClasses.com, Hyderabad

Date : 30.10.2018 & Time: 11.00 A.M. – 1.00 P.M.

Resource Person : Mr.Anil Nair,
Founder and CEO,
AnilNairClasses.com, Hyderabad.
(Former Academic Head - Career Launcher, Bangalore)

Venue : Dr.APJ Abdul Kalam Seminar Hall, 2nd Floor, RRCE

Target Audience : II, III and final year ISE & CSE Students

Number of Participants: 255

Outcome of the Program:

A story telling session by Mr.AnilNair, Founder and CEO of AnilNairClasses.com, Hyderabad is organized on 30.10.2018. He delivered an i**Inspirational talk on how he has become an Entrepreneur, What are the challenges he has faced, how he has faced the failure and bounceback from failure.** Mr.Nair narrated few of the promising areas in which Engineering graduates can try to become an Entrepreneur in the coming years. Student & faculty members are given orientation on how to establish a start up venture, best practices to be followed in the start up companies, how to mobilize

the seed fund and angel investment and narrated on team building which in turn build the enterprise.

Sample Photographs



Sample Photographs

5. Inauguration & Installation of RR Innovation and Incubation Cell (RRIIC)

Setting up RR Innovation and Incubation Cell on 13th Feb 2019 and 14th Feb 2019 : RajaRajeswari College of Engineering Innovation and Incubation Cell (RR IIC) was inaugurated on 13th February 2019 (Wednesday). Dr.R.Balakrishna, Principal delivered the presidential address.

Establishment of RajaRajeswari Institution Innovation Council (RRIIC) on 13th Feb 2019 and 14th

Feb 2019 : RajaRajeswari College of Engineering Innovation and Incubation Cell (RR IIC) was inaugurated on 13th February 2019 (Wednesday). Dr.R.Balakrishna, Principal delivered the presidential address.

Dr.G.Vinoth, B.E.M.S., Ph.D, CEO & Innovation Management Consultant, Pongu Ventures Private Ltd, (Start Up Business Incubation Firm) has addressed the Second Year and Third year students in the Dr.A.P.J. Abdul Kalam Conference Room.



Photos of the Story telling Session by Mr.Anil Nair, Founder & CEO ANC.com Hyderabad

6. Leadership Talk on “How to Innovate and Start a Start Up” :

Date: 13.2.2019 & 14.2.2019

Leadership Talk on “How to Innovate and Start a Start Up” was organized on 13th February 2019 Wednesday.

A total of 272 students of CSE, ISE and ECE department were sensitized and the same session “Leadership Talk on “How to Innovate and Start a Start Up” was repeated for the Second year and Third year Mechanical and Civil Engineering students (182 students) on 14th February 2019 (Thursday).

Pongu Ventures Team has conducted the creativity Test for the Student Innovators and Student Entrepreneurs. 74 students were registered them as members of the RR Innovation and Incubation Cell and the student members registered are grouped to form the Teams and Sensitized on Problem Discovery and Design Thinking. Students were guided to carry out the case study to discover a societal problem and trained to come up with the Design solution for the problem identified. Dr.J.Amutharaj, Professor and HoD, ISE Dept. and Chief Co-ordinator of RRIIC and Dr.K.Aravinthan, Associate Professor, Civil Engineering department have co-ordinated the two days programme.



7. Three Day Workshop on “Innovation and Start up” on 13th – 15th March 2019

Date of the Event: 13th – 15th March 2019

Timing : 9.30 A.M. – 4.00 P.M.

Resource Person :

Dr.G.Vinoth, M.S. Ph. D (USA)

CEO and Start up Designer,

Pongu Ventures, Cennai.

Target Participants: II, III year U.G and PG Students and Faculty members

Number of Participants attended: 52

Topics covered:

Innovation and Creativity

Innovation in Product or Service

Identification of problem and solution methodology

Customer Desirability and Satisfaction

Building Minimal Viable Product

Business Plan and Scaling up

Start up Registration - Introduction



Poster:

**RajaRajeswari
College of Engineering**

**INSTITUTION'S
INNOVATION
COUNCIL**
(Ministry of HRD Initiative)

Three Day Worskhop on Innovation & Start up

Organized by
RajaRajeswari College of Engineering

**Date : 13th March 2019 to
15th March 2019**

Time : 9.30 A.M. - 4.00 P.M

Venue:
4th Floor, Seminar Hall,
RajaRajeswari College of Engineering
Ramohalli Cross, Kumbalgodu,
Mysore Road, Bangalore - 74.

**DR.VINOTH, MS, PHD., (USA)**
Startup Designer,
Pongu Ventures (Startup Pre-Incubation Company)

POWERED BY  **pongu
ventures**



Workshop participation by student members



Team formation and discussion in the Innovation & Entrepreneur Workshop

8. Technology Awareness Programme on "Thrust Areas for Mobile Application Development and Innovations and Improvement"

Date : 26th April 2019

Timing: 10.30 A.M. – 12.30 P.M.

Resource Person:

Dr.G.Vinoth, M.S. Ph. D (USA)

CEO and Start up Designer,

Pongu Ventures, Cennai.

Target Participants: II, III year U.G and PG Students and Faculty members

Number of Participants attended: 52

Report of the Activity:

An Awareness Programme on "Thrust Areas for Mobile Application Development and Innovations and Improvement" was conducted on **26th April 2019 (Friday)** for the Second year and Third year CSE and ISE students. Dr.Vinoth Gunasakeran, CEO presented about the thrust areas in which students can develop mobile app to provide efficient and better service to the needs of the society. He explained how a student entrepreneur and innovator can innovate a new app for

the betterment of the society and convert it as business incubation. Dr.Amutharaj Joyson delivered the vote of thanks.

Participants of Technology Awareness Programme



9. Three Day Worskop on Design Thinking and Six Hat Thinking Techniques

Date of the Event: 23rd April – 25th April 2019

Timing : 9.30 A.M. – 4.00 P.M.

Resource Persons:

Dr.G.Vinoth, M.S. Ph. D (USA) & Team

CEO and Start up Designer,

Pongu Ventures, Cennai.

Target Participants: II, III year U.G and PG Students and Faculty members

Number of Participants attended: 55

Report of the Design Thinking Worshop conducted: Pongu Ventures team taught one of brain storming techniques for selecting the best idea for each team. RR IIC teams were introduced to **Six Hat Thinking technique** by which students learnt to use this tool for group discussion and individual thinking involving the usage of six coloured hats as this technique provides a way for a group to come together to discuss and plan their thinking process. Through this technique students also learnt about criticizing their

own idea, which is very important for any new startup business creation. The students donned six different coloured hats namely blue, white, red, black, yellow and blue, and demonstrated this technique. The brain storming was carried out by Gig Jobs team headed by **Tahir** (2nd year CSE Student). Yuvraj donning Blue Hat is managing the other five in the discussion. Tahir an aspiring entrepreneur donning Green Hat is the Creative person thinking outside the box. Shraddha, cofounder in **Tahir's team**, donning the yellow hat spoke about the positivity in Gig economy.



Six Hat Thinking Techniques - Workshop Participants



Group Discussion of Team members by applying Six Hat Thinking Techniques



Yuvaraj recruiting team members for his new **Artificial Intelligence (AI) based Social App**. One of the students shows her willingness to work for Yuvaraj project as she is in the process of learning Python Programming. She is also interested to learn Machine Learning and Deep learning for this project.



Safiya discussed about her interest in **Food Donation app** and her willingness to do social Entrepreneurship.



Ankit and Monica from TECO Team working on Waste Management project discussed about their App in detail and they derived their business process to fall under **waste recycling**. This team TECO is currently exploring their startup in recycling space related to organic waste.

1. Recycle - A process for converting waste materials into new materials and objects
2. Reuse - Action of using the object either for the original purpose or for something else
3. Recondition - Action of repairing any object

Pongu Ventures with RRCE EEE dept Students and Faculty members:

Innovators and aspiring Entrepreneurs of 2nd year EEE Department after a seminar on "How to Innovate" on 26th April 2019

Three boy Students and one girl student from EEE signed up as Entrepreneurs for Pongu Ventures Pre-Incubation Program and the rest below showed their willingness to work as Innovators. Each one discussed about a new Idea and from next class they will be part of our campus RR Innovation and Incubation cell.



The following Teams were formed and started working on solving societal problems as on date 26th April 2019.

Sl.No	Name of the Team	Team Leader	Product / Model/ Software to be developed
1	Teco	Mr.Ankit Kumar Ms.Monika Singh & Team	Waste Management / Organic Decomposer
2	Unique Path	Mr.Yuvraj & Team, ECE	Hybrid Solar Lighting for Industries and Houses
3	Agribot	Mr.Manoj & Team, ECE	Agriculture Robot design and App
4	Pass X	Mr.Santhosh & Team, ECE	Development of BMTC & BMRCL App
5	Incubatia	Mr.Musab & Team	Online Career Guidance & Tutoring
6	Skill Edge	Mr.Tahir & Team	Skill Up gradation App for Unskilled Labourers



10. Project / Prototype Exhibition May 2019

Title of the Event	: “Project / Prototype Exhibition 2K19”
Chief Guest	: Mr. Francis Sujai, M.Tech (IIT Delhi) Director, UI Centre of Excellence, HCL Technologies Pvt Ltd, Electronic City, Bangalore
Date and Time	: 21 st May 2019 (9.00AM to 3.00PM)
Venue	: Von Neumann Seminar Hall, 2nd Floor, RRCE
Target Participants	: Third & Final year Engineering Students
Number of Students participated	: 19 Team (55 Students)

OUTCOME OF THE PROGRAM:

The Inauguration started on 21st May 2019 in the Von Neumann Seminar Hall, 2nd Floor with a prayer song and lighting of the lamp.

Chief Guest : Mr. Francis Sujai, Director, UI Centre of Excellence, HCL Technologies Private Ltd, Electronic city, Bangalore.

Guest of Honors: Dr. T R.Gopalakrishnan Nair, Rector, RRGI, Dr.K.Ramar, Dean, RRCE, Dr.R.Balakrishna, Principle, RRCE, Dr. J. Amutharaj, HOD of ISE department.

The final year students showed their enthusiasm to display their academic projects to the audience. The program created a high degree of excitement to the faculty and students of the Department and motivates them to carry out innovative projects which may be useful to the society. This event was a great success.

Feedback from Final Year Students:

The students were demonstrated their work in the form of presentation later they demonstrated the work done in hardware and software in front of Experts.

Feedback from the Faculty Members:

All the students were presented their project work and the working model in front of the faculty members. Students were appreciated by the faculty members. Prizes and medals were distributed to the students.



Inauguration of Project / Prototype Exhibition 2019



Project Display and Evaluation by Experts

Start up Registration supported by RajaRajeswari Innovation & Incubation Cell



RajaRajeswari College of Engineering

(Approved by AICTE, New Delhi, Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi)

#14, Ramohalli Cross, Kumbalgodu, Mysore Road, Bengaluru – 560074



Start up Registration supported by RajaRajeswari Innovation & Incubation Cell

Start ups in RRCE during July 2018 –June 2019

Sl.No	Name of the Start up	Founder and CEO	Branch & Year of Passing	Type of Operation
1	Spartans Hub	Mr. Gaurav Kumar	CSE 2019 Alumni	Web development, Mobile App Development, Online Tutoring
2	Scinartis IT Solution	Mr. Syed Nabeeq	CSE 2018 Alumni	IT Services, Product Development and Web development
3	Work Benches	Mr. Sunil Kumar T S	CSE Alumni 2012	IT Services, Product Development and Web development
4	Technospacio	Mr. SiddanaGowdaPatil	CSE Alumni 2012	IT Services, Product Development and Security Services

Dr. C Ramesh
Convenor – RRIIC
Prof. & HoD – ME
RRCE
Bangalore

Dr. J Amutharaj
President - RRIIC
Prof. & HoD – ISE
RRCE
Bangalore

Dr. R. Balakrishna
Principal
RRCE
Bangalore

Principal
RAJARAJESWARI
COLLEGE OF ENGINEERING
Ramohalli Cross, Bengaluru-74

RAJARAJESWARI COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi

Affiliated to the Visvesvaraya Technological University, Belagavi

Criterion: 3.2.1

Academic Year: 2017-18



2017-18



RajaRajeswari Innovation Club (RRIC)

Annual Report of activities of RRIIC for the Academic year 2017 – 2018

Summary of the Activities conducted during the academic year 2017 – 2018

Sl.No	Date	Name of the Activity	Number of Participants
1	11.8.2017	Workshop on “Entrepreneurship and Innovation” as career”	182
2	2.9.2017	Workshop on “Problem Solving and Ideation”	52
3	9.5.2018	Project Exhibition 2018	82

1. Workshop on “Entrepreneurship and Innovation” as career” :

RajaRajeswari Innovation Club (RRIC) is conducting a Workshop on “Entrepreneurship and Innovation as Career” in association with ISE Department of the College on **Friday, 11th August 2017.**

Timing between 9.30 A.M. - 12.30 P.M.

Resource Person:

Dr. M. Jeyakumaran, M.B.A., Ph.D

Professor & Head, School of Management Studies,

Chief Co-ordinator –EDC Cell (KARE),

Kalasalingam Academy of Higher Education (KARE), (Deemed to be

University) Srivilliputhur, Virudhunagar (District),

Tamil Nadu.

Venue: Dr APJ AbduKalam Conference Room

Objective: Students and faculty members are given orientation on Entrepreneurship and Innovation.

Description: Dr. M. Jeyakumaran, M.B.A., Ph.D, resource person narrated on how does Engg graduates and faculty members develop their skills to like



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Critical and creative thinking, Practical Entrepreneurial skills to become a successful entrepreneur. They were given with the success stories of global, national, Local Entrepreneurs. Student & faculty members are motivated to distinguish between Entrepreneurship as career choice or by Chance to become an Entrepreneur.

Number of Students Attended the Workshop : 160

Number of Faculty members attended: 22



**RajaRajeswari College of
Engineering, Kumbalgodu, Bengaluru.**



Department of Information Science & Engineering & Innovation Club (RRIC)

Workshop on Innovation & Entrepreneurship as Career - An Eye Opener

Resource Person

Dr M Jeyakumaran, M.B.A., Ph.D
Professor and Head - School of Mgmt. Studies,
Chief Co-ordinator - EDC Cell,
Kalasalingam University, (Deemed to be University)
Virudhunagar, TamilNadu

Venue : Dr APJ Abdul kalam Seminar Hall, RRCE

Date & Time : 11th August 2017 Friday & 9.30 A.M. - 12.30 P.M.



All are cordially invited

Prof. Anandakumar,
Asst. Professor, ISE

Dr.J. Amutharaj,
Professor & HoD, ISE

Dr.R.Balakrishna,
Principal

Event Poster



Participants of the Workshop

2. WORKSHOP ON “PROBLEM SOLVING AND IDEATHON”

RajaRajeswari Innovation Club (RRIC) is conducted Workshop on '**Problem Solving & Ideation**'.

Date & Timing: **2nd November 2017 10.00 A.M. - 12.30 P.M.**

Resource Person:

Dr. G.Vinoth

Startup Venture Designer,

Pongu Ventures Private Limited, Chennai.

OBJECTIVE: Students and faculty members are sensitized on Problem Identification and assess the business potential, create awareness on solution methodologies with hands on exposure on Ideation process. Student & faculty members are orientated on best practices to be followed in

ideation.



**RajaRajeswari College of
Engineering, Kumbalgodu, Bengaluru.**



RajaRajeswari Innovation Club (RRIC)

Resource Person

Dr.G.Vinoth, B.E, M.S, Ph.D

Startup Venture Designer

Topic:

**Problem Solving and
Ideation**



Venue : ISE Seminar Hall

Date : 2.11.2017, 10.00 A.M.

All are cordianlly invited

Dr. J. Amutharaj

Co-ordinator

RR Innovation Club

Dr.R. Balakrishna, Ph.D

Principal

Poster



A part of Student Participants of the Problem Solving Techniques Workshop – Group Photo



3. Project Exhibition / Prototype Exhibition 2018 by RRIC & Dept. of ISE on 9th May 2018

1. **Type of Event** : **Project Exhibition 2018**
2. **Title of the Event** : **“Students Project Exhibition 2018”**
3. **Chief Guest** : **Prof.Dr. Mark Lee**
Professor, School of Computer Science,
University of Birmingham, United Kingdom.
4. **Event Timings** : **9th May 2018 (9.00AM to 3.00PM)**
5. **Venue** : **ISE Dept Lobby – 2nd Floor , RRCE**
6. **Target Participants** : **Final year CSE, ECE, EEE, ISE and ME Students**

7. OUTCOME OF THE PROGRAM:

The final year students of all the departments showed their enthusiasm to display their academic projects. The program generated a high degree of excitement to the faculty and students of the Department and motivates them to carry out innovative projects which may be useful to the society. This event was a great success.

8. Feedback from the Mentors/Experts:

The Experts are invited from various departments such as Prof.Rajesh and Prof. Janaki from Dept. of CSE, Dr.Aarathi Avanthika, Associate Professor, Dept. of ECE, Mr. Pawan Kumar from EEE and Mr.Ramesh, Associate Professor from Dept. of Mechanical Engineering evaluated the projects showcased by the final year students in the Project Exhibition. All the experts appreciated the work done by the students and selected three best projects from each department.

9. Feedback from Final Year Students:

The students were demonstrated their work in the form of presentation later they demonstrated the work done in hardware and software in front of Experts.

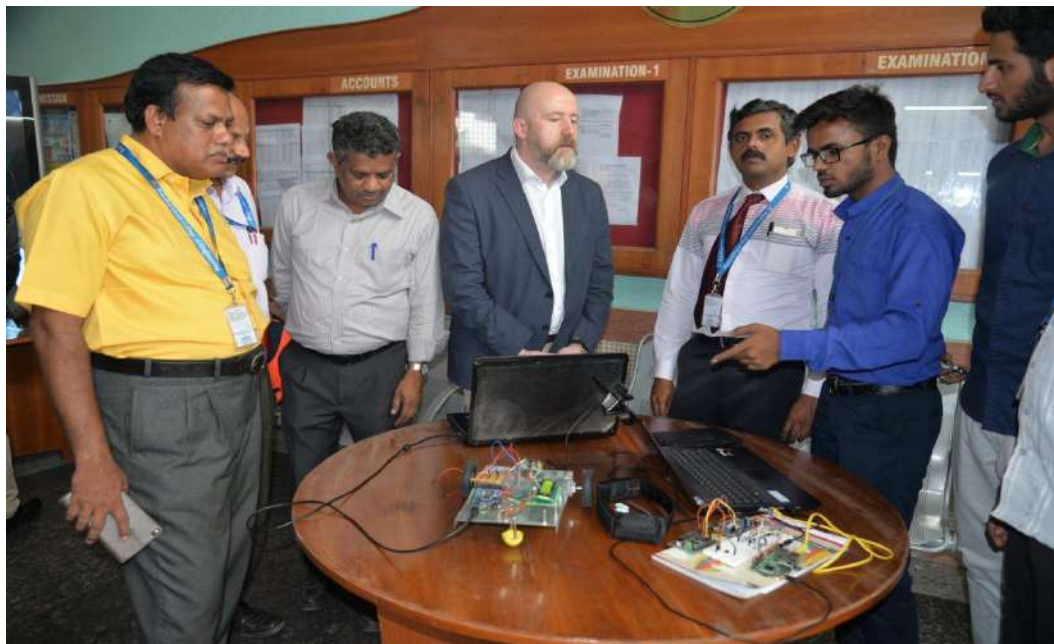
10. Feedback from the Faculty Members:

All the students were presented in front of faculty members. Some of the projects are appreciated by the faculty members. Prizes and medals were distributed to the students.

Photographs



Inauguration of Project Exhibition 2018 on 9th May 2018



Demonstration of Project working Model & Evalaution by Experts



RajaRajeswari College of Engineering

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Prize Distribution – Dr.R.Balakrishna, Principal gave away the Prize

Project Titled “Application of Green House Management for Crop Irrigation using IOT” got First Place in the Project Exhibition 2018. The same project is funded by Karnataka State Council for Science and Technology(KSCST) for the academic year 2017 - 2018.

Team Members :Ajay M.P., Chinmai S.M., Harshitha S.N., Jyothi.L

Project Guided by:Dr.J.Amutharaj, Professor and HoD – ISE

Dr. C Ramesh
Convenor – RRIIC
Prof. &HoD – ME
RRCE
Bangalore

Dr. J Amutharaj
Presidenr - RRIIC
Prof. &HoD – ISE
RRCE
Bangalore

Dr. R. Balakrishna
Principal
RRCE
Bangalore

Principal
RAJARAJESWARI
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