Educational Activities (EA) SEOC (Sectional Education Outreach Committee) Webinar

21st December 2021
Time: 4.30PM-6.00PM IST

Organized by
IEEE R10 Educational Activity Committee 2021
IEEE REGION 10 EDUCATIONAL ACTIVITIES
BRINGS TO YOU

R10 EA SEOC WEBINAR

REGION 10 EDUCATIONAL ACTIVITIES
SECTION/COUNCIL/CHAPTER WEBINAR

DECEMBER 21, 2021 | TUESDAY |
16:30 -18:00 HRS IST


AGENDA
Welcoming Remarks by EAC chair, Prof. Preeti Bajaj
Welcoming Message by R10 Director (Prof. Deepak Mathur)
EAB SEOC chair msg (Prof. Supavadee Aramvith)
R10 EA chair highlight activities
Section/chapter EA presentation of best practices
(India Council, Hyderabad Section, Pune Section,
Hong Kong Section, Malaysia Section and Japan Council)
Welcome by
Dr. Preeti Bajaj
Chair, IEEE R-10 EAC
2021 R10 EAC

Preeti Bajaj
WIE & Chair - EAC
Bombay Section

Lance Fung
Advisor
Western Australia

Tariq Rahim Soomro
Member
Karachi

Amoli Belsare
WIE & Member
Nagpur Subsection

Aliza Aini
Member
Malaysia

Rajnish Gupta
Member, YP
Singapore

Takako Hashimoto
Member
Tokyo

21-Dec-21
Region-10 EA SEOC Webinar
IEEE R10 Reaching Local - Ambassadors

Preeti Bajaj
Region 10 I/C
Reaching Local Initiatives
Bombay Section, India

Po-Hung Chen
Member
Taiwan

Leon Lei
Member
Hong Kong

Muhfizaturrahmah (Ovy)
Member, Indonesia Section

SVNL Lalitha
Member, Hyderabad Section India

Nandan S.
Member, Kerala Section, India

Ravikumar Tiwari
Member-YP, Nagpur Subsection, India

Takako Hashimoti
Member, Japan

Tao Zhang
Member
Beijing Section, P.R.China

Yanpin Ren
Member
Beijing Section, P.R.China

Usman Ali
Member-YP, Lahore Section, Pakistan

Chin-Wan Chung
Member
Daejeon Section, South Korea

21-Dec-21
Region-10 EA SEOC Webinar
2021 R10 Educational Activity Committee Report

Committee Structure
1. Chair: Preeti Bajaj
2. Members: Lance Fung, Tariq Soomro, Amoli Belsare, Aliza Aini, Rajnish Gupta, Takako Hashimoto

Objectives
1. The IEEE Region 10 Educational Activities Committee (EAC) provides guidance and assistance to Region entities in creating awareness about resources of IEEE EAB amongst R-10 Sections for learners, educators, and education policymakers
2. To be the voice of professionals in R-10 on education policy; curriculum development; pre-university, engineering and technology education; and continuing education.
3. To make available resources in local languages

Projects / Tasks
Project 1: Introduction of EA Chair, Establishment of Objectives & Orientation workshop through STEM, try-engineering and society activities in R10 sections
Project 2: To make available resources in local languages through a project Reaching Locals
Project 3: Engagement activities through organizing workshop on education policy, curriculum development, Accreditations, disruptive technologies, Education 4.0, Engineering and Technology education; and continuing education.
Project 4: R-10 New Innovation Challenge/ Social media challenges
Project 5: EA Awards

Outcomes
Project 1: No of sections- 37/60 and 10 subsection having and 2/6 Council +1 in process have EAC chair
Orientation workshops (3), TiSP Workshops 08 participants 300 plus
Project 2: recording :55 No of languages 15 /OUs24 /countries 9 /outreach 3000 direct viewers, YouTube channel created, likes 100
Project 3: No of OUs 23 /teachers/no of workshops/no of technologies/No of products of EAB
Project 4: 4 events conducted out of 10. 4 sections/Subsections participated
Project 5: Region 10 Educational Activity Outstanding Group Award: IEEE educational Society represented by chapter Chair Pune Section Prof Dr. Virendra Shete : Region 10 Educational Activity Outstanding Volunteer (Individual Award): Mallelu Sai Prashanth Hyderabad section

Finance
Project 1: 1500$ utilized 722$
Project 2: 10000$ utilized 3540$
Project 3: 2000$ utilized 1450$
Project 4: 2800$ utilized 946.11$
Project 5: Budget from Awards Committee
Total Finance sanctioned: 16300$ utilized 6658.11$
WELCOME!

Deepak Mathur  Stephen Phillips  Jamie Moesch

Educational Activities Leaders, Section Chairs, Secretaries & All the IEEE Volunteers
Program Schedule

- 4:30 PM 2 minutes Welcome by EAC chair
- 4:32 PM 5 minutes Welcome message R10 Director (Deepak Mathur)
- 4:37 PM 3 Minutes Video message by VP EAB (Stephan Phillips)
- 4:40PM 3 Minutes EA Managing Director EAB (Jamie Moesh)
- 4:43 PM 3 minutes EAB SEOC chair message (Supavadee Aramvith)
- 4:46 PM 6 minutes. R10 EA chair highlight activities Aliza
- 4:52PM 50 minutes Council/Section/chapter EA presentation of best practices (Hong Kong Section, India Council, Hyderabad Section, Pune Section, Malaysia Section, Japan Council)
- 5:42 PM 10 minutes Q&A
- 5:52 PM 2 Minutes for YouTube channel of Region 10 EAC by Mr Usman
- 5:54 PM 3 minutes appreciation certificates to EA team by EAC Chair & Region 10 Director
- 5:57 PM 3 minutes Closing by Dr Takako
Opening Remarks
Deepak Mathur
Director, IEEE R-10
Chief Guest
e-Memento to
Deepak Mathur
Director, IEEE R-10

IEEE Region-10 Educational Activities
SEOC Webinar
21st December 2021
Grateful to you for
Joining our Endeavour
Message by

Stephen Phillips

Vice President Educational Activities,
IEEE EAB
e-Memento to
Stephen Phillips

IEEE Region-10 Educational Activities
SEOC Webinar
21st December 2021

Grateful to you for
Joining our Endeavour
Jamie Moesch
Managing Director Educational Activities, IEEE EAB
e-Memento to
Jamie Moesch
Chair Message

Supavadee Aramvith
IEEE Region-10 Chair University Resources Committee
EAB SEOC Chair

Supavadee Aramvith
IEEE Region-10 Chair University Resources Committee

- Dr. Supavadee Aramvith, Member IEEE EAB and Chair IEEE Pre-University Education, Section & Chapter Committee Chair R10, (Thailand).
- Dr. Supavadee Aramvith (Senior Member, IEEE) received the B.S. degree (Hons.) in computer science from Mahidol University, in 1993, and the M.S. and Ph.D. degrees in electrical engineering from the University of Washington, Seattle, USA, in 1996 and 2001, respectively.
- She is currently working as Associate Professor, Department of Electrical Engineering, Chulalongkorn University.
- Her research specialization is in the areas of video coding and processing. She has published over 130 papers in international conference proceedings and journals.
- She has rich project management experiences as a project leader and a former technical committee chair to the Thailand Government bodies in Telecommunications and ICT.
- She formerly led Educational Activities and Women in Engineering for the IEEE Asia Pacific (Region 10), from 2011 to 2016.
e-Memento to

Supavadee Aramvith

IEEE Region-10 Chair University

Resources Committee
Report of EAC for 2021

by

Dr. Aliza Aini
ALIZA AINI MD RALIB obtained her B. Eng. in Computer and Information Engineering (Electronics) from International Islamic University Malaysia in 2006.

She has been Assistant Professor with the Electrical and Computer Engineering Department, International Islamic University Malaysia.

Her work has been published both locally and internationally in more than 40 papers in journals and proceedings locally and internationally.

She is currently an executive committee of IEEE Electron Device Society (EDS) Malaysia Chapter (Communication and Promotion) since 2017 until now in Education portfolio.

She actively involved in STEM activities with school students and has been appointed as the coordinator of MYSTEM Ambassador program at IIUM since 2019.

She received IEEE R10 New innovation challenge in 2020 entitled Bringing STEM to life with teachers at Sekolah Kebangsaan Lelaki Jalan Batu, one of the underprivileged schools selected under Sekolahku Universitiku program. In 2021,

She has been appointed as committee for IEEE Region 10 in Educational Activities.
2021 R10 EA Activity Highlights

2022 IEEE R10 SEOC Webinar
Date: 18 December 2021

Aliza Aini Md Ralib
2021-2022 R10 Educational Activity Committee
2021-2022 R10 EAC

Preeti Bajaj
WIE & Chair -EAC
Bombay Section

Lance Fung
Advisor
Western Australia

Tariq Rahim Soomro
Member
Karachi

Amoli Belsare
WIE & Member
Nagpur Subsection

Aliza Aini
Member
Malaysia

Rajnish Gupta
Member, YP
Singapore

Takako Hashimoto
Member
Tokyo
Objective of R10 Educational Activities

1. The IEEE Region 10 Educational Activities Committee (EAC) provides guidance and assistance to Region entities in creating awareness about resources of IEEE EAB amongst R-10 Sections for learners, educators, and education policymakers.

2. To be the voice of professionals in R-10 on education policy; curriculum development; pre-university, engineering and technology education; and continuing education.

3. To make available resources in local languages.
2021 R10 Educational Activity Committee Report

**Project 1:** Introduction of EA Chair, Establishment of Objectives & Orientation workshop through STEM, try-engineering and society activities in R10 sections

**Project 2:** To make available resources in local languages through a project Reaching Locals

**Project 3:** Engagement activities through organizing workshop on education policy, curriculum development, Accreditations, disruptive technologies, Education 4.0, Engineering and Technology education and continuing education.

**Project 4:** R-10 New Innovation Challenge/ Social media challenges

**Project 5:** EA Awards
Announcement of 1st, 2nd and special call for proposals from R10 EA

http://ea.ieeeer10.org/2021-announcement/
### 2021 R10 EA Proposal status

<table>
<thead>
<tr>
<th>Project 1: TryEngineering And STEM</th>
<th>Target</th>
<th>Number of accepted proposals Round 1 &amp; Round 2</th>
<th>Proposals completed</th>
<th>Project Outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10</td>
<td>9</td>
<td>8</td>
<td>8 Workshops 300 plus participants</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Project 2: &quot;Reaching Local Initiatives&quot;</th>
<th>Target</th>
<th>Number of accepted proposals Round 1 &amp; Round 2</th>
<th>Proposals completed</th>
<th>Project Outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>-</td>
<td>30</td>
<td>24</td>
<td>Recording :55 15 No of languages 24 OUs &amp; 9 countries outreach 3000 direct viewers, YouTube channel created: likes 100</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Project 3: Capacity Building Workshop</th>
<th>Target</th>
<th>Number of accepted proposals Round 1 &amp; Round 2</th>
<th>Proposals completed</th>
<th>Project Outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8</td>
<td>8</td>
<td>6</td>
<td>No of OUs 23</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Project 4: New Innovation Challenge</th>
<th>Target</th>
<th>Number of accepted proposals Round 1 &amp; Round 2</th>
<th>Proposals completed</th>
<th>Project Outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10</td>
<td>7</td>
<td>4</td>
<td>4 sections/Subsections participated</td>
</tr>
</tbody>
</table>
### 2021 R10 EA Project Outcome

<table>
<thead>
<tr>
<th>Project</th>
<th>Target</th>
<th>Proposals completed</th>
<th>Project Outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project 1: TryEngineering And STEM</td>
<td>10</td>
<td>8</td>
<td>TISP Workshops 300 plus participants</td>
</tr>
</tbody>
</table>
| Project 2: “Reaching Local Initiatives” | 100    | 24                  | Recording:55  
15 No of languages  
24 OUs & 9 countries  
outreach 3000 direct viewers,  
YouTube channel created: likes 100 |
| Project 3: Capacity Building Workshop | 8      | 5                   | No of OUs 23 participated in organization and collaborated                       |
| Project 4: New Innovation Challenge | 10     | 4                   | 4 sections/Subsections participated                                               |
| Total accepted proposals |        | 41                  |                                                                                  |
Project 1: Introduction of EA Chair, Establishment of Objectives & Orientation workshop R10 sections (orientation workshops & Try Engineering & STEM)

- EA Chair compilation in google sheet
- Orientation workshops (3 webinars)
- No of sections - 37/60 and 10/40 subsections having 1/6 Council +1 in process have EAC chair
- 10 proposals were accepted for TryEngineering workshop
- 8 projects completed
- Total Expenditure
  722$ for 5 out of 1500$ (150$ per project) +03 claims are in pipeline

- No of TISP workshops 8/10 (1 Islamabad, 2 Malaysia and UP, Bangalore, Hyderabad, India Council, Delhi)
- No of OU - 8
- 7 workshop conducted + 01 Delhi in December
Project 1: 1st Webinar on “IEEE R10 EA Project opening & Funding portal and EA products”

Date: 27th March 2021  
Time: 7:15 am – 9:30 am (IST)
Date: 5 June 2021  
Time: 7:15 am – 9:30 am (IST)

All grant recipients for Round 1 proposals are invited to the webinar.

Content:
- Overview of pre-event and during event checklist,
- Event planning
- Post event report

33 participants from different OU's under R10 and all selected event coordinators attended the workshop.
Project 1: 2021 Region-10 Workshop on TryEngineering And STEM Under Educational Activities
Project 2: Reaching Locals

Countries Awarded activities: (02 Council, 15 Sections, 3 Subsections
- Japan
- India
- Malaysia
- Hong Kong
- Indonesia
- Korea
- Pakistan
- China
- Taiwan

No of activities 24 funded but actually more than that including Japan council, China, Taiwan, Indonesia which are without funding.

Languages used: Arabic, Cantonese, Tamil, Indonesian, Kashmiri, Japanese, Bengali, Malay, Hindi, Telugu, Urdu, Malayalam, Kannada and Chinese, Marathi.

10 proposals were accepted for TryEngineering workshop
8 projects completed

Budget: USD150 for each activity to OU’s for support.
Total Budget 10000USD
3540 USD utilized
Details of Project 2: IEEE R-10 EAC's Call For Proposal For "Reaching Local Initiatives”

<table>
<thead>
<tr>
<th>Target</th>
<th>Per workshop</th>
<th>Total fund</th>
<th>Total proposal accepted</th>
<th>Proposal completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>150 USD</td>
<td>10,000 USD</td>
<td>30</td>
<td>24/30</td>
</tr>
</tbody>
</table>

- **Hong Kong**: 1
- **India**: 9
- **Japan**: 4
- **Korea**: 1
- **Malaysia**: 13
- **Pakistan**: 1
- **Australia**: 1
- **Indonesia**: 1

No of activities 24 funded but actually more than that including Japan council, China, Taiwan, Indonesia which are without funding.
<table>
<thead>
<tr>
<th>No</th>
<th>Title</th>
<th>Speaker</th>
<th>Date</th>
<th>Organizer</th>
<th>Scheme</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Artificial Salmon Tracking Algorithm (ASTA) on Open Transmission Use Charge (OTUC)</td>
<td>Prof. Ir. A.N. Afandi, S.T., M.T., IPM, MIAEng, SMIEEE, Ph.D.</td>
<td>Friday, April 9th, 2021. 13.00 – 15.00  <a href="https://youtu.be/U7zAVMVJq">https://youtu.be/U7zAVMVJq</a> Rw</td>
<td>Telkom University Student Branch</td>
<td>Reaching Locals</td>
</tr>
<tr>
<td>2</td>
<td>Point of Views Power Engineering on Jakarta-Bandung High-Speed Railway</td>
<td>Prof. Dr. Ir. Yanuarsyah Haroen, SMIEEE</td>
<td>Saturday, June 26th, 2021. 09.00-11.30  <a href="https://youtu.be/9FjRKhv8l0c">https://youtu.be/9FjRKhv8l0c</a></td>
<td>Universitas Pendidikan Indonesia (UPI) Student Branch</td>
<td>Reaching Locals</td>
</tr>
<tr>
<td>5</td>
<td>Digital Literacy For Secondary School Students</td>
<td>Andi Wijaya, Gilang Jiwana Adikara, Danang</td>
<td>Sunday, August 29th, 2021. 08.00 – 12.00</td>
<td>Universitas Negeri Yogyakarta</td>
<td>Try Engineering</td>
</tr>
<tr>
<td>6</td>
<td>Digital Literacy Series : Mapping your Future Study</td>
<td>Muhfizaturrahmah</td>
<td>Saturday, October 16th, 2021. 19.00 – 21.00</td>
<td>Universitas Negeri Yogyakarta</td>
<td>Reaching Locals</td>
</tr>
</tbody>
</table>
Reaching Local initiatives by R10 EA featured in R10 newsletters

During 2020, many in the IEEE community have resorted to virtual platforms to conduct meetings, classes, workshops, seminars and even conferences. It is now recognised such tools have gained popularity and familiarity by almost everyone. In addition, a wide range of online resources are easily accessible such as the repository of resources from various IEEE organisational units (OU’s), for purposes such as raising awareness and understanding of technology, education, and training. However, nearly all the materials have used English as the de-facto medium and this has placed a barrier for many in some countries within Region 10.

2020 IEEE President, Professor Toshio Fukuda, and Professor Akinori Nishihara, IEEE R10 Director, have initiated a project to encourage R10 OU’s to make the resources available to the community with local languages. Japan Council had taken the lead to conduct webinars in Japanese, and transcribed Japanese/Chinese subtitles for the 2019 ICAR Keynote speech.

IEEE Region 10 Educational Activities PROJECT REACHING LOCALS aims to encourage and support local OU’s such as Councils, Sections, Sub-sections, Chapters, Student Branches, WIE, YP, Life members and Affinity Groups to conduct activities and/or produce resources to reach out to the community using local languages.

As a start, the committee has initiated YouTube Channels focused on separate languages, as below:

+ Bahasa Melayu
  https://www.youtube.com/playlist?list=PLAMtein271ZbBvTeE5eYqgsGEn-1OCiZj

+ Bahasa Indonesia
  https://www.youtube.com/playlist?list=PLAMtein271ZdDbhGzO1OVdDBDe0wSrMcqj

+ Malayalam
  https://www.youtube.com/playlist?list=PLAMtein271ZnCevdIiowqW2cWIAfWOsf

+ Chinese
  https://www.youtube.com/playlist?list=PLAMtein271Zd7y4sAyrzVGedbFQFC8Tq

+ Telugu
  https://www.youtube.com/playlist?list=PLAMtein271ZdDpiWp2qWjswAF4dGNjldzFn

Established IEEE R10 Reaching Locals Youtube Channel

Start on 7 Jan 2021
2589 views
53 subscribers
Project 3: Engagement activities through organizing workshop on education policy, curriculum development, Accreditations, disruptive technologies, Education 4.0

Topics covered
- National Education policy
- 21st century learning skills
- AI
- AI for societal challenges
- Next stage teaching with emerging learning technologies
- Education 4.0
- Disruptive technologies
- IOT.

Total participation: 23

OUs participated:
- Council – India (01), sections: Bombay, Delhi, Pune, Madras, Hongkong, Pune Section
- OUs: RIT, Photonics, IEEE Education society
- Hyderabad, Madras YP, Hongkong Computer chapter, EDS Hongkong, Hongkong section city university student branch, IEEE SICSR Pune branch, SICS, NSS, YCCE, PIET, CCOEW, GHRCE
- Subsection: NSS, Chandigarh

Project 3 outcome: CAPACITY BUILDING

8 proposals were accepted for Capacity Building workshop
6 projects completed

Support for expenses up to $250 to OU for each activity max 8 with matching grant of 250$ from parent OU
Total Budget: USD$2000 Expenditure: 1450$
2021 Region-10 Call for Capacity Building Workshop under Educational Activity
Project 4: R-10 New Innovation Challenge

Establishment of objectives, evaluation criteria and judging panel for the new innovative challenge

Budget: $500 USD (250USD from R10 with matching grant from section 250USD) which also includes Winner and runner-up in Pre-University 100USD and 50USD and University Categories (100USD and 50 USD) respectively

OUs participated: Malaysia, Hyderabad, Pakistan, Australia, Hong Kong, India

Support for 10 commendation projects (7 approved 4 conducted)

946.11$ utilised out of USD$2,500
Project 4: 2021 Region-10 New Innovation Challenge Under Educational Activities
Project 4 : Social Media Challenge

Objective: the IEEE R10 EAC Social Media Challenge to encourage IEEE R10 members to share their learning and reflections from the virtual activities that they are participating in reaching locals

Support up to $50 for minimum 4 media coverage Budget: USD$300

OUs participated : 2

Project 4 outcome : SOCIAL MEDIA CHALLENGE
Project 5: EA Awards

Establishment of objectives, evaluation criteria and judging panel for R10 EA Awards
Promote, encourage and support for submissions to IEEE EAB Awards from R10 OU's

Dr Sameer and Dr Nirmal and Dr Amoli as jury members

R10 Educational Activities Outstanding Group Award
*IEEE Education Society represented by chapter Chair, Pune Section Prof. (Dr.) Virendra V. Shete*

R10 Educational Activities Outstanding Volunteer Award
*Mallellu Sai Prashanth from Hyderabad Section*
For more details, please visit https://ea.ieeer10.org

Email: region10eab@gmail.com
THANK YOU….
e-Memento to
Dr. Aliza Aini
EA presentation of Best Practices of the Council/ Section/ OU

Hong Kong Section: Dr. Leon Lei

India Council: Prof. Devraj –EA Chair India Council

Hyderabad Section: Prof. Lalita

Pune Section: Prof. G. S. Mani Pune Section

Malaysia Section: Dr. Rosminazuin - IEEE EDS Malaysia

Japan Council: Ms. Mayumi Suzuki (Hitachi, Ltd., IEEE JC EA Coordinator)
Leon Lei received his Ph.D. in Electrical and Electronics Engineering from the University of Hong Kong (HKU) in 2011.

He is now an eLearning Technologist in HKU. His current research interests include learning analytics, open licensing and education, MOOC and chatbot tutor.

He is an IEEE Senior Member and an Advance HE Senior Fellow.

He is the current chair of IEEE Hong Kong Section Education Chapter.

He was awarded the Best/Outstanding Paper Award in IEEE TALE 2020/2017/2013 - TALE is IEEE Education Society Region 10 flagship conference.
IEEE R10 EA SEOC Webinar
EA Sharing from Hong Kong Section

Dr Leon Lei, SMIEEE, SFHEA
Chair, Education Chapter, Hong Kong Section (2020-2021)
Three projects in 2021 supported by R10 EAC

- Online Training of Artificial Intelligence for Teaching and Learning
  - Reaching Local Initiatives
- Empowering Teachers for the Next-Stage Teaching with Emerging Learning Technologies
  - Call for Capacity Building
- IEEE Hong Kong Pre-University STEM Student Conference
  - New Innovation Challenge
Virtual Event #1

- 25 Aug 2021
- 1084 registrants
  - 47% K12 teachers, 19.5% Higher Ed students, 14.5% Higher Ed teachers
- 219 Zoom participants
- 840+ views on Youtube (HKU + IEEE)
Virtual Event #1

- AI in Teaching and Learning
- AI Chatbot
- Development of AI chatbots
  - Examples from medical school

- Connection to K12 teacher communities
- Sustainable reach to the public after the event
- Collaboration with other partners (HK UGC VTL)
- Cantonese version (Another 180+ views)
Virtual Event #2

- 29 Sep 2021
- 1246 registrants
  - 60% K12 teachers, 13% Higher Ed teachers, 9.5% Higher Ed students
- 225 Zoom participants
- 730+ views on Youtube (HKU + IEEE)
- https://youtu.be/HUet5LB9yzI
Virtual Event #2

- Creative Commons
- Open Educational Resources and OER-Enabled Pedagogies
- Copyright from a legal perspective
- Avoiding copyright infringement

- In-depth small group discussions after the event
- Share to different parties after the event
- Co-present with experts from other fields
Physical Event

- Facilitating students to develop projects for achieving UN Sustainable Development Goals (SDGs), based on TryEngineering materials
- 3-month virtual mentorship (Sep - Nov)
- One-day physical event (11 Dec 2021)
  - 140+ participants (University leaders/teachers, K12 school leaders/teachers/students)
  - 20+ event helpers (IEEE, Faculty of Engineering, Faculty of Education, several universities)
- Also supported by IEEE Pre-University Education Coordinating Committee
Physical Event
e-Memento to
Leon Lei

Dr Leon Lei
Chair, Education Chapter,
Hong Kong Section (2020-2021)
IEEE Region-10 Educational Activities
SEOC Webinar
21st December 2021

Grateful to you for joining our Endeavour
Dr. D. Devaraj,
Vice Chair, Educational Activities,
IEEE India Council

IEEE India Council

- Dr. D. Devaraj obtained his Ph.D degree from IIT Madras, in the year 2001 in Electrical Engineering.
- He is working as a Senior Professor in the Electrical & Electronics Engineering department of Kalasalingam Academy of Research and Academy, India.
- He has published 170 papers in Journals and presented 250 papers in conferences.
- He has Supervised 27 PhD, 2 M.S and 25 M.E theses.
- He has undertaken 5 research projects sponsored by DST, Government of India.
- His research interest includes Artificial Intelligence, Renewable Energy and Smart Grid.
- Dr. D. Devaraj has been recognized in the field of Artificial Intelligence and Image analysis as one among the top 2% scientists/researchers across the world by Stanford University researchers.
- He is a senior member of IEEE, a member of IEEE Power & Energy System and IEEE Product Safety Engineering Society.
- Presently he is the Secretary of IEEE Madras Section and Vice-Chair (Educational Activities) of IEEE India Council.
IEEE India Council-Best Practices

By

Dr. D. Devaraj,

Vice Chair, Educational Activities, IEEE India Council
Awareness Webinars

  - Mr. Sohaib Sheikh, Chair, Awards and Recognition committee, IEEE EA Board
  - Dr. Preeti Bajaj, Chair, R10 Educational activities committee.
  - Dr. Dhanukumar Pattanasheti, Senior IEEE Client services/University Partnership Program Manager
  - Number of participants - 85

  - Dr. S. K. Ramesh, Professor, California State University, USA
  - Dr. Supavade Aramvith, Chair IEEE EAB Section Education Outreach and
  - Dr. Vijayalatha, IC SAC Vice chair
  - Number of participants - 150
Awareness Event-EPICS

Date: July 17th, 2021

- Presentation on EPICS, Funding for projects, Guidelines for preparing the proposals
- Panel discussion:
- Speakers:
  - Samarth Deo, Chair, EPICS in IEEE
  - Dinesh Singh, Member, EPICS in IEEE
  - Ray Alcantara, Program Manager, EPICS in IEEE
STEM Workshop on "Arduino Blink Challenge"

- Attended by 85 School teachers
- Training on Sensors & Arduino-based system design
- Demonstration on Arduino-based projects
- Encouragement to conduct similar events for the School students
Capacity Building Workshop

Artificial Intelligent Techniques to Address Societal Challenges, Oct 1st to 3rd, 2021

- Sponsored by R10-EAC
- Conducted in association with IEEE Madras section, Pune section, Education society, Hyderabad section and YP-Madras Section.
- 250 Participants
- Topics Discussed:
  - Machine learning algorithms
  - Deep learning networks
  - Application to Agriculture, Health care and Supportive service
  - Hands-on training using MATLAB and Python
- Quiz on each day
- Case study competition
Joint Event

• Women Leadership in Marine Technology, Engineering and Technology on 14th September 2021 in association with Marine Technology Society (MTS)
  • Dr Susan K land, President IEEE
  • Dr Cleopatra Doumbia Henry, President, World Maritime University, Sweden and
  • Ms Zdenka Willis, President MTS.
Forthcoming Event-Workshop on Deep Learning

- Event dates: December 22\textsuperscript{nd} and 23\textsuperscript{rd}, 2021
- Objective: To train the students on Image processing and Deep learning algorithms.
- Major features:
  - Hands-on training using Matlab.
  - Case study on Bio-medical imaging
  - Quiz at the end of each session
  - Matlab programming-based contest
- Number of participants – 200 (Expected)
Thank You

Contact me @ deva230@yahoo.com
ddraj230@gmail.com
e-Memento to
Dr. D. Devaraj
Vice Chair - Educational Activities
India Council

Grateful to you for
Joining our Endeavour
IEEE Hyderabad Section

- Dr. S.V.N.L. Lalitha, Senior Member of IEEE, PES member, WIE AG member
- Currently Volunteering as Chairperson, IEEE Guntur Subsection, Hyderabad Section & R10 Reaching Locals Member, PES She4her mentor
- Obtained M.Tech in Power Systems and Ph.D from Electrical Engineering Department, National Institute of Technology, Warangal, India
- Working as a Professor of EEE Department in KLEF Deemed to be University, Guntur, Andhra Pradesh, India
- Acted as Energy Systems Research Group Head, Power Systems Research Group Head and Head of EEE Department
- Guiding 8 Ph.D scholars and one scholar Ph.D awarded and another scholar submitted
- Published more than 50 Scopus indexed research papers
- Filed a patent on assessment of voltage stability index for online voltage stability monitoring
- Co authored a book chapter on Microgrid Protection
- Received Best teacher award from KLEF, Uttama Acharya Puraskar from Indian Servers and Significant Volunteer Service award 2020 from SAC, Hyderabad Section
- Represented WIE Hyderabad Section in R10 SYWL Congress at Indonesia, Bali and delivered Key note lecture in WIE ILS at Dhaka, Bangladesh

Dr. S.V.N.L. Lalitha
Chair, Guntur Subsection, Hyderabad Section
R10 Reaching Locals Committee member
Professor, EEE Department, KLEF Deemed to be University Guntur, Andhra Pradesh, India
Best Practices in Educational Activities
at IEEE Hyderabad Section
Dr. K. Aneetha Sheela, Head, ECED, JNTUH  
SK – IoT Team Members

1. Dr. Srinivas Katkooi, University of South Florida
2. Mr. Aradhanand, BHEL Corporate R&D, Hyderabad
3. Dr. S. V. Srikanth, Joint Director, C-DAC
4. Dr. Arifuddin Mohammed, Secretary, IEEE Hyderabad Section
5. Mr. K. N. Balaji Kumar, Ex-CEO, Nalanda Telematics and Informatics Ltd., Hyderabad
6. Mr. JVS Rama Krishna, L&T Smart World
7. Mr. Rajneesh Raju Vetukuri, Co-Founder, CEO, Jyo Systems Private Limited
8. Mr. Ravishankar, TCS(Rtd.,) and chief architect of Skill Connect

Educational Activities Team

1. Dr. N.C. Siva Prakash, Professor, Instrumentation Engineering (Rtd., in 2021), IISc, Bangalore
2. Dr. Srihari Rao Patri, Professor of ECE, Director. Innovation Cell, NIT Warangal
3. Dr. L Pratap Reddy, Professor of ECE, JNTUHCEH & Chairman E-Swecha
4. Mr. Bala Peddigari, Chief Products Officer, TCS & Treasurer IEEE Hyderabad Section
5. Dr. Kavitha Athota, Associate Professor of CSE, JNTUHCEH & Chair, Mentorship Program, Secretary CIS & GRSS Chapter, IEEE Hyderabad Section
6. Dr. Anitha Sheela Kancharla, Professor & Head of ECE, JNTUHCEH & Chair, Educational Activities, IEEE Hyderabad Section
• Design and implement Programs to enable students to become career/Industry ready
• Use of Pattern Based Competency Development in program design to address major needs of Industry
• Online Self learning, online mentored programs that enable them to build end to end applications spending 80 hours in 6 months – Skill Umbrella of Programs
• Improve IEEE Membership through career oriented Skilling programs
• To provide programs that help improve skills for Interviews and employment tests – coding programs etc
• Industry Connect - to align to the needs of the industry & potential Internship opportunities
• Expose students to Expert resources via MoUs with relevant organizations – MoU with Virtual Labs etc
MoUs with relevant stakeholders - learning opportunity (existing & potential student members)

1. MoU with MHRDs Virtual Labs for Virtual experimentation, internships etc (2018 to 2020)

<table>
<thead>
<tr>
<th>S. No</th>
<th>Students Touched</th>
<th>SBs touched</th>
<th>Number of Usages (done)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1800 In Virtual Lab workshops</td>
<td>12 (Vizag &amp; Guntur Subsections)</td>
<td>66600 person experiments</td>
</tr>
<tr>
<td>2</td>
<td>14 Student remote Internships</td>
<td>3</td>
<td>639 person hours</td>
</tr>
</tbody>
</table>

2. With colleges - participating in Education Activities programs – e.g.: Skill Connect – 23 colleges to be stakeholders in student skilling.

<table>
<thead>
<tr>
<th>S. No</th>
<th>Stream</th>
<th>Number of Colleges</th>
<th>Number of Participants</th>
<th>New Memberships</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Embedded Systems and Java</td>
<td>1</td>
<td>45</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Online Java (in Progress)</td>
<td>12</td>
<td>82 (Registered)</td>
<td>35</td>
</tr>
<tr>
<td>4</td>
<td>IoT (in Progress)</td>
<td>23</td>
<td>252</td>
<td>80</td>
</tr>
</tbody>
</table>
Trajectory of Competence Developed
Skill Connect Umbrella Programs

Year of Course

% Projected Skill Levels
Cumulative Increase

CSEDomains
ECE Domains
EEE Domains
The Education Activities Committee (EA) is a standing committee of the IEEE Hyderabad Section and is a Horizontal across the Society Chapters and Affinity Groups and the Section. It supports the Education related programs of the Section and planning and organizing them on a need basis.

Skill Connect program is a Flagship Program of the IEEE Hyderabad Section. This is specially designed for students to build competence in them during their college year and make them industry ready. [https://skill-connect.in/](https://skill-connect.in/)

- Current SK Domains(2021) – Internet of Things, Java Programming
Skill connect initiatives - IoT

- Three Phase Module
- Pilot Project for 20 Colleges under MoU
- Duration: 4 months
- Phase 1: Competency requirements for IOT, (Moodle based online module – self paced) - Free for IEEE Student members – 250+ students enrolled in phase 1.
- Phase 2: Firmware projects (Face to Face module) – Completed Train the Trainer Program) - Free IoT Starter and sensor Kits distributed to colleges
- Phase 3: Edge Computing IOT with Data Analytics
- Funding Support from Hyderabad Section – USD 7500
- Funding Support from IEEE CAS Chapter – USD 4000

Industry Connect:
As part of skill connect, about 20 industries and startups in the area of IoT will be on boarded to take students completing the SK program as Interns and possible full time roles.
R10 funded projects to Hyderabad Section in 2021

- New Innovation Challenges - 2 projects
  - Vardhanam College SB for “AI Enabled Chat Bot for Covid-19”
  - SV College of Engineering for “COVID Rescuer”

- Reaching Local initiative – 2 projects
  - in Hindi, Telugu, Urdu languages

- TRY Engineering – STEM – 1 project
  - Workshop on ICT Tools

- Social Media Challenge – 1 project.
New Innovation Challenge under Educational Activity
synchronized collaboration of e-education, secure filing, smart info access through chat bots
• The toy is inbuilt with UVC light and other required materials, and this can be operated using a mobile app. When we start the robot, it takes 25 to 30 minutes to sanitize a room.

• On average, the moving robot which is the UVC trolley system with an average speed of 5ft/min can cover a room of 400 sq.ft. within 30 minutes for complete (>99%) disinfection.

• Our main motto is that the covid virus is very dangerous so a human getting exposed causes severe consequences but whereby using this robot we can operate it with safe distance and that too without making the room or the place wet which is done while we spray sanitizer.

• This can be operated by any age group with proper awareness.
Reaching Locals Project 2021
Reach the Unreached
R10 EA Reaching locals initiative
presents
"WORK ON SELF-LEADERSHIP"
-Talk in Regional Telugu

Speaker
Mrs. C S Ramalakshmi
Retd IFS Officer

Date: 23rd June 2021
Time: 11.00 Am to 12.00 Pm
Register at: bit.ly/ReachtheUnreached

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Reach the Unreached
R10 EA Reaching locals initiative
presents
"DIGITAL DETOX"
--Talk in Regional Telugu

Speaker
Mr. Anil Rachamalla
Founder of End Now Foundation
Internet Ethics and Digital Wellbeing Expert

Date: 30 June 2021
Time: 11.00 Am to 12.00 Pm

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Reach the Unreached
R10 EA Reaching locals initiative
presents
"INTERACTIVE SESSION ON THE SCOPE OF ENTREPRENEURSHIP"
POST - PANDEMIC

Speaker
Shyam Prashad Rajasekaran
Co-Founder and Chief Operations at
Veg Route Agri Tech Private Limited

Date: 25th June 2021
Time: 11.00 Am to 12.00 Pm
Register at: bit.ly/ReachtheUnreached

---

Reach the Unreached
R10 EA Reaching locals initiative
presents
"HEALTH HAZARDS & PREVENTION"
--Talk in Regional Telugu

Speaker
Dr. K Mahendra Reddy
MBBS, MS, DNB, PDCC, Gastro Surgeon

Date: 26 June 2021
Time: 11.00 Am to 12.00 Pm
<table>
<thead>
<tr>
<th><strong>Webinars</strong></th>
<th><strong>Competitions</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Work on self-leadership (regional language)</td>
<td>Kare of Kavitha</td>
</tr>
<tr>
<td>Interactive session on the scope of entrepreneurship post - pandemic</td>
<td>Reveal your thoughts</td>
</tr>
<tr>
<td>Health hazards and prevention</td>
<td>Group discussions in local language</td>
</tr>
<tr>
<td>Digital detox - talk in regional telugu</td>
<td>Can you answer it ?</td>
</tr>
<tr>
<td>Workshop on AWS cloud in Hindi</td>
<td></td>
</tr>
</tbody>
</table>

IEEE R-10 EAC's Call for Proposal for "Reaching Local Initiatives".
SOME GLIMPSES
Shyam Prashad Rajasekaran

I started the business with just 9 rupees and I started with just having 9 rupees. We see the right solution, the right problem statement,
IEEE Vardhaman Student Branch Reaching Locals Project 2021
IEEE Region 10 Educational Activities Reaching locals initiative
presents
WEBINAR ON AWS EC2 SERVICES IN REGIONAL HINDI

**Speaker**
Prof. Ashwin Raiyani
Head of Department (CE/IT)
School of Engineering, RK University

**Date:** 25th June 2021  
**Time:** 06.00 pm to 07.30 pm

Register at :bit.ly/ieeevardhamanproject
IEEE Vardhaman Student Branch Reaching Locals Project 2021
IEEE Region 10 Educational Activities Reaching locals initiative

Presents

IEEE EXPERIENCES SHARING IN REGIONAL LANGUAGES

GUIDELINES:

✦ Videos Must be limit to 1 minute Max
✦ Content Most Preferable in Regional

Last date of submission:
10th July 2021

Uma maheswari V

green, why? I y n c and Etc? So a color image loan to know our color pixels the for my point into the make image, so each pixel every pixel means. Okay? Pixel it is made up of the sum
Try Engineering And STEM
The Project EnVision which is conducted as Two-Day workshop on ICT Tools Hands-on training

To ensure Leadership traits that lead to better community, and enforce the community development

To address the setbacks of students and teachers in the Pre-Engineering Schools.

To fulfil the mission and vision of the TISP Through Try Engineering Modules.

To build the next generation leaders through driving the members of the section through a specialised leadership training program.
Social Media Challenge

Mallelu Sai Prashanth
Facebook: https://www.facebook.com/100007419721383/videos/1406522889725367/

Instagram: https://www.instagram.com/p/CRRW76UpP_F/?utm_source=ig_web_copy_link

Twitter: https://twitter.com/MallelluSai/status/1414952293615775746?s=08

Linkedin: https://www.linkedin.com/posts/sai-prashanth-mallellu-bab491196_ieee-ieee10-ieee10ea-activity-6820717704601853952-e-mM

IEEE Collabratec: https://ieeecollabratec.ieee.org/app/p/SAIPRASAHANTHMALLELLU5272_13
• Education has always enriched the standards of reasoning and cognitive ability in me.
• IEEE has helped me to become an ideal leader by giving me opportunities to organize many informative and collaborative learning events.
• So, I always aim to quest for new technologies in all relative engineering fields by creating a new professional platform for networking and exploring career opportunities.
• The experiences I had with the community is one thing that has helped me grow in my career.
• Also, the spirit of Joy of Volunteering is something which always gets me moving forward.
• Getting involved in Section and Student branch is the best thing for a professional in the early stages of career.
THANK YOU...
Other Education Activities from IEEE Hyderabad Section
CS SAMEEKSHA 2021
Presents
PANEL DISCUSSION
on
Career Opportunities in COVID-19 Wave -2
(Regional Telugu)

PANEL

Mr. Geethananda Reddy
Data Scientist
Inavectra

Mr. Pavan Allu
Hi-Tech CTO Group
TCS

Mrs. Komala Ravendra
Expert Trainer
& Psychologist

Mr. T Vidya Sagar
SAC Chair
IEEE

Dr. M. A. Jabbar
Chair
IEEE CS Hyderabad Section

Dr. PESN Krishna Prasad
Secretary
IEEE CS Hyderabad Section

MODERATOR

Mr. Madhu Vadlamani
Vice-Chair
IEEE CS Hyderabad Section

09 MAY 2021 | 1.30PM - 3.00PM

/IEEECSHYD

/ieeevardhaman.org
CS SAMEEKSHA 2021
presents
Mobile & Web Application Development
Submit at: bit.ly/cssameeksha8

Submit Your Project Abstracts by:
08 May 2021
CS SAMEEKSHA 2021

Presents

NETWORKING SESSION (KAHOOT)

Date: 08th May 2021 | Time: 5.00 pm to 5.30 pm

Register at bit.ly/cssameeksha
IEEE Vardhaman College of Engineering Student Branch

Presents

REGIONAL MEETING ON DEEP LEARNING AND BIOMEDICAL SIGNALS 2021

E-HACK Challenge

14th May 2021 | 6:00 pm to 9:00 pm

Organized by
IEEE Vardhaman College of Engineering Signal Processing Chapter

IN ASSOCIATION WITH IEEE HYDERABAD SECTION COMSOC & SPS JOINT CHAPTER
AND
IEEE HYDERABAD SECTION STUDENT ACTIVITIES COMMITTEE

Register at bit.ly/sps_ehack
IEEE Vardhaman College of Engineering Student Branch

REGIONAL MEETING ON DEEP LEARNING AND BIOMEDICAL SIGNALS 2021

Organized by
IEEE Vardhaman College of Engineering Signal Processing Chapter

IN ASSOCIATION WITH IEEE HYDERABAD SECTION COMSOC & SPS JOINT CHAPTER AND IEEE HYDERABAD SECTION STUDENT ACTIVITIES COMMITTEE

14th May 2021
12.00 PM - 12.30 PM

15th May 2021
5.30 PM - 06.00 PM

NETWORKING SESSION
(KAHOOT)

Register at bit.ly/sps_2021
/ieeevvardhaman.org
e-Memento to
Dr. S.V.N.L. Lalitha
IEEE Pune Section

Prof. Dr. G. S. Mani is a Former chair at IEEE, Pune section and Former Dean and Director at DIAT, DRDO, Pune

Mr. G. S. Mani
Advisor, Past Chair
IEEE Pune Section
Educational Activities and Education Society, IEEE Pune Section
**EDUCATION 4.0**

- Capacity Building Workshops: Role of Education technologies
  - *Focus- Collaboration & Capacity*

**EU-Reka**

- Use College students as ‘Ambassadors of Education’
  - *Focus- Inclusive & Equity Education at high school*

**EKAM**

- Focus on the strength of STEAM education (in association with Raja Dinkar Kelkar Museum)
  - *Focus- STEM to STEAM*
IEEE R10 EA Sponsored Capacity Building Workshop

Education 4.0
Role of Educational Technologies

15th - 17th July 2021
2:00 pm to 5:00 pm (IST)

Register: https://bit.ly/Education4.0
Meghna Das: +91 9932632295
ieee@sicsr.ac.in
Education 4.0

Day 1

Dr. Debarshi Mukherjee
Associate Professor
HoD of Business Management
Tripura University (A Central University)

Ms. Gayatri Venugopal
Assistant Professor
Symbiosis Institute of Computer Studies and Research, Pune

Day 2

Dr. Supavadee Arunvith
Head, Artificial Data analysis
and Processing Research Unit,
Chulalongkorn University

Mr. Dhanukumar Pattanshetty
Senior IEEE Client Services/University Partnership Program Manager

Ms. Anoli Belare
Member at IEEE 802 EC

Dr. Nita Belgrade
Department of IET,
VCCI, Nagpur

Day 3

Mr. Binu A Rajagiri
Assistant Professor at Rajagiri School of Engineering & Technology

Mr. John Day
IEEE Senior Member
Director, Member Products & Programs

Ms. Lorena Garcia
Senior IEEE Client Services/University Partnership Program Manager
IEEE Try Engineering

Mr. Radeep Krishna
Assistant Professor at Kalasalingam Academy of Research and Higher Education, Srivilliputhur

Mr. Anurag Sahay
Global Business Unit Head-Al and Data Science at Nagarro
Education 4.0 Workshop – Major Features

- 3 Days; Galaxy of Speakers; Attendance > 180 on each day
- Wide coverage of topics – Business management; Projects & Programs; Research; Innovation; Data Analytics; High speed computing; AI and Robotics; TryEngineering......

Performance Rating
Eu-Reka 2021

Lend a hand to raise the Education Reka
**Eu-Reka 2021** (SHARE, GIVE BACK, INSPIRE)

**Major Objectives**
- Better and inclusive education at high schools
- Cut down drop-out rates in our high schools
- Narrow down the disparities of rural-urban divide
- Reduce gender disparity in educational system

**Approach used in Eu-Reka**

“IEEE is looking at what you can do for the society”

**Ambassadors Of Education**

- College Students
- Rural & Urban School children
Eu-Reka 2021 (SHARE, GIVE BACK, INSPIRE)

Major Features

College students involved: 529 (from 10 Sections)

- Total outreach of school students was 15,081 spread over 8 states (290 Schools)

No. of College student participants: 529

- Boys: 6,957 (46.1%)
- Girls: 8,124 (53.8%)

Urban: 5,401 (35.8%)
Rural: 9,680 (64.2%)
Eu-Reka 2021 (SHARE, GIVE BACK, INSPIRE)

Major Takeaways

1. Rural Outreach > Urban Outreach

2. Girls > Boys both in Rural & Urban areas

3. Many college students have gone to more than 4 schools; Some even 6 (Though they knew that no extra credit for going to more schools)

4. Many college students have gone to all 4 rural schools (Though only 1 rural school was required for qualifying)
Objective of शून्य is to “ignite curiosity, creativity, and innovative mindset into the youngsters”

Major aim of Ekam is to bring to focus the inherent oneness between science-based modern disciplines and the faculty of Arts, and the strength that can be derived by realizing their oneness
Ekam – Some glimpses

Science, History and Art of Flute – Venu Parichay

Dr. Ashok Gaekwad

Ms. Mitra Desai

Leap of Google!
Back to the books?

Mind Mapping Over the Years

Dr. Rupali and Dr. Dnyanraj Choudhary

Mr. Avinash Dighe

Raag Ragini - Introduction to classical Music
Ekam – Some glimpses

Is Data Science Applicable To Indian Epic?  
Dr. Nilesh Oak

History and Science of Beauty Care – Solah Shringar  
Ms. Leena Khandekar

Body Armour – Past, Present and Future  
Dr. Muralidhar Patkar

Tradition in Transition: Perception of a Kathak Dancer  
Guru Pali Chandra

& Many more programs
Thank you!
e-Memento to
Mr. G S Mani
IEEE Malaysia Section

- ROSMINAZUIN AB RAHIM currently works as an Associate Professor at Faculty of Engineering, International Islamic University Malaysia.
- She is an Executive Committee Member of IEEE EDS Malaysia Chapter since 2014, particularly under Educational Activities portfolio.
- She has been involved in various educational activities at school and university levels for the past 5 years. In 2021, she secured humanitarian and educational grants as below:
  - Recipient of 2021 IEEE HAC/SIGHT Projects Call for Proposals Focused on COVID-19 Response and Pressing Community Need (USD5000) (Fostering Online Learning for Marginalized Children in Malaysia)
  - Recipient of 2021 IEEE EDS/HAC Special Call for Proposals: EDS-Relevant Technology for Local Community Challenges (USD2000) (STEM for all: Inspiring Malaysia Indigenous students through EDS-ETC)
  - Recipient of 2021 IEEE R10 EA New Innovative Grant (USD200) (Do-your-Bit Nature Challenge)
  - Recipient of 2021 IEEE R10 Reaching Local Initiative (USD150) (Let’s Play Robot with TryEngineering)
  - Co-Recipient of 2021 IEEE R10 Reaching Local Initiative (USD400) (Let’s code with Microbit)
- She is also selected as 2021 IEEE STEM Ambassador for Region 10.
IEEE R10 EA SEOC WEBINAR
EA SHARING
MALAYSIA SECTION

ROSMINAZUIN AB RAHIM
Executive Committee (EA Portfolio)
IEEE EDS Malaysia Chapter
R10 EA Grants

• 2021 IEEE R10 EA New Innovative Grant (USD200)
  – Do-your-Bit Nature Challenge

• 2021 IEEE R10 Reaching Local Initiative (USD400)
  – Let’s code with Microbit

• 2021 IEEE R10 Reaching Local Initiative (USD150)
  – Let’s Play Robot with TryEngineering

• 2021 IEEE R10 Reaching Local Initiative (USD150)
  – Enriching orphans through curiosity with graphite
Selected Programs Overview

- **IEEE PY MYSTEM MICROBIT PROGRAM**
  - Phase 1: Let’s Code with Microbit
  - Phase 2: Do-Your-Bit Nature Challenge

- Targeted for 20 secondary school students (Form 4) at Sekolah Berasrama Penuh Integrasi Gombak (SBPI Gombak), Selangor

- Selected students as mini STEM ambassadors
Phase 1: Let’s Code with Microbit

- Recorded videos
- Quiz & Assessment
  - One quiz for each module
- Coaching
  - Through Telegram
- Online Workshop
  - Microbit Demonstration & Certificate of Completion

4 modules are used
Phase 2: Do-Your-Bit Nature Challenge

Competition Briefing
Judging criteria
Participants grouping

Competition begins
Students are given 2 weeks time

Judging process
By IEEE volunteers and student volunteers

Winners Announcement
Best project & Instagram contest
IEEE Grant Opportunities Talk

- Organized by IEEE EDS Malaysia Chapter
- How to Succeed in Applying IEEE Grants including IEEE R10 EA
- Good responses and feedbacks from IEEE members in Malaysia
Program Impact & Visibility

- IEEE Day 2021 Malaysia Section (9th Oct 2021)
  - Sharing the best practice
  - Attended by IEEE members in Malaysia
- STEM Summit 2021 (1st – 6th Nov 2021)
  - Project virtual exhibition
  - 331 participants, 15 exhibitors, 65 countries represented
- IEEE Stem Portal - TryEngineering
e-Memento to
Dr. Rosminazuin Ab Rahim
Reaching Local Initiatives
by
Ms. Mayumi Suzuki
Japan Council
(Hitachi, Ltd., IEEE JC EA Coordinator)
IEEE Japan Council

• Ms. Mayumi Suzuki (Hitachi, Ltd., IEEE JC EA Coordinator)
• She finished Master degree from Tokyo University of Science
• She started her career as a researcher in Hitachi, Ltd.
• She joined IEEE member from 2008
• she has worked as a Tokyo YP Chair
• Tokyo & Shin-Etsu WIE Treasurer
• Japan Council Industry Promotion Committee Secretary and Japan Council Educational Activities Coordinator.
R10 EA SEOC Webinar
EA presentation of best practices
Case: Japan Council

Mayumi Suzuki
IEEE Japan Council EA Coordinator
Researcher, Hitachi, Ltd.
History of Educational Activities in Japan

- **So far:**
  AGs have been actively engaged in technical, educational and career development activities.

- **May 2020～:**
  "Online Education in Local Languages Project" was promoted under the leadership of Fukuda IEEE President and Nishihara R10 Director.
  - Start Japanese Live Webinar Series Engineer Spotlight
  - Start to make STEM videos with Japanese subtitles

- **Sept. 2020～:**
  EA Chair in each Section and JC Coordinator were **NEWLY established**.

- **Dec. 2020～:**
  Japan Council received certificate of appreciation.

- **July～Sept. 2021 :**
  Japan Council and Kansai Section received R10 EA Fund “Reaching Locals Initiatives” and held events.

Activities are increasing
IEEE Organization Structure

IEEE Members

Committee
Board of Directors
Executive Committee

Executive Director & Staff
(IEEE Japan Office)

Publication
IEEE-USA
Educational Activities
MGA
Standards Association
Technical Activities

Sections
(Self governing organization)

Chapters
Student Branches
YP/WIE/LM

R-1 to 10
(Japan belongs to R10)

9 Section in Japan
Sapporo
Sendai
Tokyo
Shin-etsu
Nagoya
Kansai
Hiroshima
Shikoku
Fukuoka

IEEE Japan Council
(Coordination of the sections)
IEEE Organization Structure

IEEE Members
- Committee
- Board of Directors
- Executive Committee
- Executive Director & Staff (IEEE Japan Office)
- IEEE-USA
- Educational Activities
- MGA
- Standards Association
- Technical Activities

IEEE Japan Council (Coordination of the sections)

9 Section in Japan
- Sapporo
- Sendai
- Tokyo
- Shin-etsu
- Nagoya
- Kansai
- Hiroshima
- Shikoku

Sections (Self governing organization)
- R-1 to 10
  (Japan belongs to R10)
- Chapters
- Student Branches
- YP/WIE/LM

EA is NOT an organization under MGA. However, we have appointed a Chair for each Section which leads more smooth and active, since AGs have been actively held EA-like event.
IEEE Japan Council and Nine Sections in Japan

Member in Japan: 13,798

IEEE Japan Council
Role is to coordinate the nine sections

It is MOST IMPORTANT to conduct activities that are appropriate to the size of the Section.

Introduction of Educational Activities in each Section (1)

- Key points of conduct EA in Section
  - Use the opportunity to initiate EA to reinforce previous EA-like activities.
    - Make sure that EA is not a new burden!
  - Focus on the characteristics of each Section and the areas they want to develop.
    - Example:
      - Co-operate with active AGs
      - Recently received IEEE Milestone
      - Annual Flagship Event
      - Local revitalization
Introduction of Educational Activities in each Section (2)

- Overview of some events related to Section EA
  - Kansai Section
    Organized “Learn cutting-edge-technologies in English”, co-organized by YP, WIE and LMAG, by Hybrid. （21th Aug.）
  - Hiroshima Section
    Co-hosted invited lecture with Engineer Spotlight in Hiroshima Section’s annual flagship event HISS (Hiroshima Student Symposium) only by Online. （27th Nov.）
  - Sapporo Section
    Co-organized Sapporo LMAG Establishment event after Metro Area Workshop 2021 in Sapporo by Hybrid. （31th Oct.）
The role of Japan Council EA Coordinator

- Supporting and encouraging for Section activities
- Scooping up areas that are not taken care of by Section EAs
- Responding to requests from Headquarters
Introduction of Educational Activities conducted by JC EA Coordinator and Group

- Created an “Group” consisting of representatives from various fields to ensure the continuity of Educational Activities in Japan.

- Japanese Live Webinar Series Engineer Spotlight
  - [Key Points]
    - Choose targets from elementary student to retired
    - Lectures on the latest technology with detailed explanations by experts (Not too specialized!!)
    - Recommend On-demand streaming
    - Add sub-mission to collaborate with Chapter-Section, hands-on Try Engineering Program, IEEE Day etc..

- STEM video with Japanese subtitles
  - Translation of IEEE's existing English content
At the end

- I would like to utilize the newly established structure of EA to maintain the IEEE that allows us to do what we want to do.

Part of the Japan Council EA Group members
THANK YOU
e-Memento to
Ms. Mayumi Suzuki
Usman Muhammad Ali
Student Activities Chair
Lahore Section
e-Memento to

Usman Muhammad Ali
Student Activities Chair
Lahore Section

Grateful to you for Joining our Endeavour
Concluding Remark
by
Dr. Takoko Hashimoto
Vice President, Director of International Center,
Chiba University of Commerce (Professor)
IEEE Japan Council Chair (2021-2022)
Member IEEE Computer Society Board of Governor (2021-23)
Member, IEEE Educational Activities Board (2021)
Nia Kurnianingsih
IEEE Region-10
Information Management Chair
IEEE Region-10 Educational Activities
SEOC Webinar
21st December 2021
Grateful to you for
Joining our Endeavour

Ewell Tan
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21st December 2021
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