

# Region 10 Indonesia Section Report

## PART A - SECTION SUMMARY

### A.1 Executive Summary

- Section Executive Committee Member List

#### **Advisory Board Member List (2022)**

1. Prof. Dr. Ir. Wahidin Wahab (SM)
2. Dr. Arifin Nugroho (SM)
3. Prof. Dr. Ir. Dadang Gunawan (SM)
4. Ir. Arnold Ph Djiwatampu (LSM)
5. Arief Hamdani Gunawan, S.T., M.Si
6. Muhammad Ary Murti, S.T., M.T.
7. Kuncoro Wastuwibowo, Ir., M.Sc. (SM)
8. Satriyo Dharmanto, Ir., M.Si. (SM)
9. Prof. Dr. Ir. Fitri Yuli Zulkifli (SM)
10. Prof. Dr. Eng. Wisnu Jatmiko

#### **Section Executive Committee Member List (2022)**

- **Chair** : Dr.-Ing. Wahyudi Hasbi
- **Vice Chair** : Prof. Ir. Gamantyo Hendrantoro, PhD.
- **Secretary** : Prof. Ir. Linawati, MEngSc. PhD.
- **Deputy Secretary** : Dr. Karlisa Priandana
- **Treasurer** : Dr. Kemas Muslim Lhaksmana, S.T., M.ISD.
- **Deputy Treasurer** : Dr. Prima Dewi Purnamasari, S.T., M.T., M.Sc.

#### **Activity Committee**

- **Membership Development Activities:** Dodi Wisaksono, S.T.; M.Kom and Indra Riyanto, S.T., M.T.
- **Chapter Activities:** Ir. Endra Joelianto, Ph.D
- **Technical and Education Activities:** Dr. Eng. Khoirul Anwar, S.T., M.Eng.; Muhfizaturrahmah, ST., M.Eng.
- **Students Branch Activities:** Amanda Julia Isa, S.T.; Muhammad Sabirin Hadis, S. Pd., M.T.
- **Awards & Recognition Activities:** Dr. Ir. Henri P. Uranus, M.T.; Ratna Mayasari, ST, MT
- **Webmaster & Communication Activities:** Dr. Adian Fatchur Rochim; Muhamad Rausyan Fikri, M. Eng
- **Government Relations Activities:** Dr. Denny Setiawan, S.T., M.T.; Dr. Agustan
- **Conference Activities:** Chaeriah Wael, MT; Dr. Medria Kusuma Dewi Hardhienata; Dr. I Dewa Made Wiharta; Auzi Asfarian, S.Komp., M.Kom.
- **Industry Relations Activities:** Dr. Agnes Irwanti, S.E., M.Si.; Eddy Setiawan, MSTAS
- **Profesional Activities:** Dr. Anggoro Widiawan
- **Entrepreneurial & Triple Helix Networking Activities:** Beno K. Pradekso
- **Sponsorship & Endorsement Activities:** Angga Risnando, M.Sc
- **Humanitarian Technology and and Community Activities:** Dr. Diana Purwitasari; Dr. Dewi Liliana.; Dr. Berlian Al Kindhi S.ST., MT.
- **Western Region Coordinators:** Kahlil Muchtar, Ph.D.
- **Eastern Indonesia Region Coordinators:** Ir. Amil A. Ilham, S.T., M.IT., Ph.D.; Dr. Kalvein Rantelobo
- **Affinity Group**
  - **Women in Engineering:** Prof. Dr. Ir. Riri Fitri Sari, M.Sc., M.M.; Dr. Nur Afny Catur Andryani, S.Si, M.Sc.
  - **Young Professional:** Cleossa Lydwina Agdy Putri, S.E.; Afdhal Azmi
  - **SIGHT on eHealth and Telemedicine Indonesia:** Dr. dr. Yoke Saadia Irawan, M.T.; Allya Paramita Koesoema, S.T., M.T., Ph.D.

### Indonesia Section Chapters

1. **Communications Society Chapter COM19 (CH10273)** Chair: Dr. Wiseto Agung
2. **Computer Society Chapter C16 (CH10784)** Chair: Dr. Ford Lumban Gaol
3. **Circuits and Systems Society Chapter CAS04 (CH10358)** Chair: Dr. Tutun Juhana, ST., MT.
4. **Engineering in Medicine and Biology Society Chapter EMB18 (CH10357)** Chair: Prof. Dr. Soegijardjo Soegijoko
5. **Power and Energy Society Chapter PE31 (CH10737)** Chair: Prof. Ir. A.N. Afandi, ST, MT, IPM, MIAEng, MIEEE, Ph.D
6. **Solid State Circuit Chapter SSC37 (CH10652)** Chair: Infall Syafalni, ST., M.Sc.
7. **Joint Aerospace and Electronic Systems/Geoscience and Remote Sensing Society Chapter GRS29/AES10 (CH10629)** Chair: Dr. Arifin Nugroho
8. **Education Society Chapter E25 (CH10781)** Chair: Iwan Kustiawan, Ph.D.
9. **Joint Microwave Theory and Techniques/Antennas and Propagation Society MTT17/AP03 (CH10458)** Chair: Eko Setijadi, ST., MT., Ph.D
10. **The Indonesia Section, Oceanic Engineering and Technology and Engineering Management Joint Societies Chapter (CH10963)** Chair: Dr. Marina Frederik
11. **Joint Chapter Control Systems/Robotics and Automation SocietyCS23/RA24 (CH10808)** Chair: Dr. Arjon Turnip
12. **Power Electronics Society PEL35 (CH10782)** Chair: Prof. Dr. Ir. Yanuarsyah Haroen
13. **Signal Processing Society SPO1 (CH10778)** Chair: Dr. Fiky Suratman
14. **Electron Devices Society ED15 (CH10788)** Chair: Basuki Rachmatul Alam Ph.D
15. **Society of Social Implication of Technology SIT30 (CH10770)** Chair: Prof. Dr. Soegijardjo Soegijoko
16. **Computation Intelligence Society CIS11 (CH10880)** Chair: Prof. Teddy Mantoro
17. **Systems, Man, and Cybernetics Society SMC28 (CH10882)** Chair: Dr. Sunu Wibirama
18. **Industrial Electronics Society IE13 (CH10902)** Chair: Prof. Dr. Ir. Mauridhi Hery Purnomo, M.Eng.
19. **Joint Chapter Instrumentation and Measurement IM09 and Information Theory IT12 (CH10929)** Chair: Ir. Endra Joelianto, Ph.D.
20. **Joint Chapter Vehicular Technology VT06 and Intelligent Transportation Systems ITS38 (CH10930)** Chair: Ir. Endra Joelianto, Ph.D. & Herman Y. Sutarto, Ph.D.

- Section Highlights

IEEE Indonesia section, which is a part of IEEE global, has been established since 16 February 1988. It currently has about **2,642 (Feb 2023) active members**: there are 1,552 members, 92 senior members, 501 student members, 36 associate members, 423 graduate student members, 7 life members, 5 life senior members, and 26 affiliate members, and has been awarded 2021 Outstanding Section Membership Recruitment and Retention performance from IEEE Headquarter. In addition, in 2022 there were improvement on number of graduate student member, senior member and formed new three (3) New Student Branches. Furthermore in year 2022, IEEE Indonesia Section has run more than 100 activities, even more if all OUs actively input and report them in VTools. The Section has several important events at national level and international level. Moreover there were two events that opened and attended by the Minister of Republic Indonesia, and had more than 300 participants. At the international level, the Section run IEEE Innovation Nation Program for the first time. Chapters, Student Branch, and Affinity Group also had several major and remarkable events. Finally, the Section guarantee awards to the member, chapter, and student.

## A.2 Financial Report

Table 1. Balance of IEEE IS accounts per 1 Jan 2022 compared to 31 Dec 2022. In Jan 2023, 1 USD = 15,559 IDR.

Account	Balance 1 Jan 2022	Balance 31 Dec 2022
CB Nextgen HOP #101600	35,485.70 USD	104,746.23 USD
887731429 / IEEE INDONESIA SECTION	81,639.36 USD	20,969.97 USD
749477584 / IEEE INDONESIA SECTION	413,729,414.00 IDR (26,591.00 USD)	621,181,273.00 IDR (39,924.24 USD)
TOTAL	143,716.06 USD	165,640.44 USD

Table 1 lists the balance of IEEE IS accounts per 1 Jan 2022 compared to 31 Dec 2022. The first two accounts are in USD, whereas the other one is in IDR. The latter account balance is approximated to USD given 1 USD = 15,559 IDR (as per Jan 2023). Therefore, the total balance is increased by 21,924.38 USD (from 143,716.06 USD to 165,640.44 USD). The transaction summaries of each account are provided in Table 2, Table 3, and Table 4.

Table 2. Summary of the 2022 transactions in concentration banking account HOP #101600

<b>CB Nextgen HOP #101600 (USD)</b>		
<b>Beginning Balance</b>		<b>35,485.70</b>
<b>Revenue/Cost</b>	<b>Task Number</b>	<b>Amount</b>
Revenue	2.80.000   000 Student Activities	300.00
Revenue	3.10.000   000 Rebate from IEEE	15,741.95
Revenue	3.32.030   030 Member & Geographic Activities	5,878.16
Revenue	3.34.000   000 IEEE HQ & Societies	46,880.50
Revenue	3.40.000   000 IEEE CB Account Interest	459.92
<b>Total Revenue</b>		<b>69,260.53</b>
<b>Total Cost</b>		<b>-</b>
<b>Total</b>		<b>69,260.53</b>
<b>Ending Balance</b>		<b>104,746.23</b>

Table 3. Summary of the 2022 transactions in 75080 - Bank BNI INDONESIA (USD) Checking (Account No 887731429)

<b>75080 - Bank BNI INDONESIA (USD) Checking (Account No 887731429)</b>		
<b>Beginning Balance</b>		<b>81,639.36</b>
<b>Revenue/Cost</b>	<b>Task Number</b>	<b>Amount</b>
Revenue	3.32.030   030 Member & Geographic Activities	4,120.00
Revenue	3.45.000   000 Non-IEEE CB Account Interest	28.34
Cost	4.85.000   000 Grants & Awards	(24,782.00)
Cost	5.60.010   010 Bank & Credit-Card Fees	(35.73)
Cost	6.95.000   000 Bank Account Transfers (outgoing)	(40,000.00)
<b>Total Revenue</b>		<b>4,148.34</b>
<b>Total Cost</b>		<b>(64,817.73)</b>
<b>Total</b>		<b>(60,669.39)</b>
<b>Ending Balance</b>		<b>20,969.97</b>

Table 4. Summary of the 2022 transactions in 74996 - Bank BNI INDONESIA (IDR) Savings (Account No 749477584)

<b>74996 - Bank BNI INDONESIA (IDR) Savings (Account No 749477584)</b>		
<b>Beginning Balance</b>		<b>413,729,414.00</b>
<b>Revenue/Cost</b>	<b>Task Number</b>	<b>Amount</b>
Revenue	2.50.000   000 Conference Revenue	241,653,982.00
Revenue	2.80.000   000 Student Activities	124,357,100.00
Revenue	3.10.000   000 Rebate from IEEE	3,094,300.00
Revenue	3.32.030   030 Member & Geographic Activities	66,664,391.00
Revenue	3.45.000   000 Non-IEEE CB Account Interest	4,360,433.00
Revenue	3.95.000   000 Bank Account Transfers (incoming)	591,800,000.00
Cost	4.10.010   010 Section Meeting	(2,989,000.00)
Cost	4.30.000   000 Advertising Expense - IEEE	(1,235,844.00)
Cost	4.50.000   000 Conference Expenses	(14,000,000.00)

Cost	4.70.000   000 Professional Activities	(1,499,600.00)
Cost	4.80.000   000 Student Activities	(247,103,447.00)
Cost	4.85.000   000 Grants & Awards	(229,863,392.00)
Cost	5.20.000   000 Travel Expense	(24,998,500.00)
Cost	5.50.000   000 Support to Sections/Chapters	(8,094,300.00)
Cost	5.54.020   020 Member & Geographic Activities	(236,663,268.00)
Cost	5.54.050   050 Educational Activities	(22,163,375.00)
Cost	5.60.000   000 Other Management & General Expense	(18,400,000.00)
Cost	5.60.010   010 Bank & Credit-Card Fees	(1,188,891.00)
Cost	6.20.000   000 Other	(15,044,350.00)
Cost	6.31.000   000 Student Branch Rebate Disbursement	(1,234,380.00)
<b>Total Revenue</b>		<b>1,031,930,206.00</b>
<b>Total Cost</b>		<b>(824,478,347.00)</b>
<b>Total</b>		<b>207,451,859.00</b>
<b>Ending Balance</b>		<b>621,181,273.00</b>
<b>Ending Balance in USD (1 USD = 15,559.00 IDR)</b>		<b>39,924.24</b>

## **PART B - ORGANIZATIONAL ACTIVITIES**

### **B.1 Membership Development Activities**

- Total number of active members in the past 3 years.

It currently has about **2,642 (Feb 2023) active members**: there are 1,552 members, 92 senior members, 501 student members, 36 associate members, 423 graduate student members, 7 life members, 5 life senior members, and 26 affiliate members. When this number compares to its **February 2022 (2,983 active members)**, it shows decrease of member number. There were 1,735 members, 67 senior members, 701 student members, 55 associate members, 395 graduate student members, 7 life members, 4 life senior members, 17 affiliate members, and 2 others. However, it shows similar to its number on **Oct 2021, i.e. 2,640 active members**, there were 49 Associate Members, 309 Graduate Student Members, 7 Life Members, 4 Senior Members, 1,597 Members, 62 Senior Member, 598 Student Members, and 14 Affiliate.

Significant decrease number of members is especially to student numbers. Since most of the student members have been graduated in year 2022. However, it increases in term of senior members and graduate student members. These growth because of strong supports of the Section Executive Committee.

- Summary and evidence of work done to improve the value of membership, which leads to retention and growth of members

Indonesia Section has done several innovative initiatives below since year 2021, that prove the retention and growth of members especially the number of graduate student members.

- Bridging student and lecturer internship programs in various industries and Indonesian research institutions. Then Support and facilitate the participation of IEEE Indonesia's Student Branch in IEEE contests and events.
- Hold a free IEEE Conference Quality Management workshop regularly, starting from 2021.
- Provide new payment system for membership fee <https://ieee.id/membership/payment-via-ieee-is/> that assists all members and new members who don't have credit card or others electronic payment account.
- Strengthen relationships and collaborations internally between section, chapters, affinity groups, student branch, and externally as a penta-helix collaboration.
- IEEE Indonesia Section organizes free Workshop on Conference Management regularly, provides new options of LOA types, i.e. LOA Schema A, B1, and B2 (<https://ieee.id/organizing-a-conference/>), and Self-Quality-Conference-Assessment Tool.
- Committee of IEEE Indonesia Section includes government, industry, academic, entrepreneurs, students, young and professionals, gender representatives, and others. The Section keep conducting several workshops that involved them to bridge the gap between IEEE and them.

- IEEE Indonesia Section has focused conducting several activities in East of Indonesia and 3T (frontiers, outermost, and least developed regions), to give benefit to them
- IEEE Indonesia Section supports in forming new Sub-Sections, Chapters and new Student Branches in Indonesia and keep monitoring their vitality.

## B.2 Chapter Activities

- Total number of Chapters in the Section  
Currently, Indonesia Section has 26 Chapters including Joint Chapters.
- Number of Chapters formed in the current year  
Only one Chapter is formed this year 2022, i.e. **The Indonesia Section, Oceanic Engineering and Technology and Engineering Management Joint Societies Chapter (CH10963)**
- Number of active Chapters (Chapters who have reported required number of meetings during the year)  
Totally there are 9 Chapters reported their activities in VTools, however only 8 Chapters have hold two technical meetings in 2022 and complete reports. Chapter 10629 had 11 activities without complete report in VTools. Thus number of active Chapter is 8.
- Summary of Chapter activities (Chapter wise with attachment table/information)

Below are activities of the Chapters in 2022.

1. Communications Society Chapter COM19 (CH10273) : **22 activities with incomplete report.**
2. Computer Society Chapter C16 (CH10784) : **7 activities**
3. Circuits and Systems Society Chapter CAS04 (CH10358) : **NA**
4. Engineering in Medicine and Biology Society Chapter EMB18 (CH10357) : **2 activities**
5. Power and Energy Society Chapter PE31 (CH10737) : **7 activities**
6. Solid State Circuit Chapter SSC37 (CH10652) : **2 activities**
7. Education Society Chapter E25 (CH10781) : **NA**
8. Power Electronics Society PEL35 (CH10782) : **NA**
9. Signal Processing Society SPO1 (CH10778) : **NA**
10. Electron Devices Society ED15 (CH10788) : **2 activities**
11. Society of Social Implication of Technology SIT30 (CH10770) : **2 activities**
12. Computation Intelligence Society CIS11 (CH10880) : **NA**
13. Systems, Man, and Cybernetics Society SMC28 (CH10882) : **NA**
14. Industrial Electronics Society IE13 (CH10902) : **NA**
15. Joint Societies Chapter The Indonesia Section, Oceanic Engineering and Technology and Engineering Management (CH10963) : **2 activities**
16. Joint Aerospace and Electronic Systems/Geoscience and Remote Sensing Society Chapter GRS29/AES10 (CH10629) : **11 activities which some without completed report.**
17. Joint Microwave Theory and Techniques/Antennas and Propagation Society MTT17/AP03 (CH10458) : **2 activities**
18. Joint Chapter Control Systems/Robotics and Automation SocietyCS23/RA24 (CH10808) : **NA**
19. Joint Chapter Instrumentation and Measurement IM09 and Information Theory IT12 (CH10929) : **NA**
20. Joint Chapter Vehicular Technology VT06 and Intelligent Transportation Systems ITS38 (CH10930) : **NA**

## B.3 Professional and Continuing Education Activities

Summary of continuing Educational activities including conferences, technical activities, training courses, and distinguished lecture programs with attachment table / information

Total number of professional lectures/ seminars/ workshops /technical activities/conferences conducted by Indonesia Section during the year 2022 is 79 activities of conferences, distinguished lecture programs, and workshops/trainings/seminars. Most activities can be seen on Youtube channel of Indonesia Section, <https://www.youtube.com/c/IEEEIndonesia>, and the information on the website and social media channels, i.e. <https://iee.id/>, <https://www.facebook.com/IEEEIndonesia/>, <https://twitter.com/IEEEIndonesia>, and <https://www.instagram.com/ieee.indonesia/>. List of the activities can be seen in the attachment of this report.

## B.4 Students Activities

- Total number of Student Branches in the Section  
Indonesia Section has 33 Student Branches, and 24 Student Branch Chapters / Student Branch Affinity Groups.
- Number of Student Branches formed in the current year  
There are 3 Student Branches formed in the year 2022, i.e. STB66624 - Universitas Pertamina, STB99523- Universitas Nusa Mandiri, and STB40258593 - Universitas Pelita Harapan.
- Section level student activities (student congress, paper and other contests, awards etc)
  1. Workshop on Nano-Satellite Bus: Power System Design: Telkom University,GRS29, SBC06341 - Telkom University,GRS29. Date: 21 May 2022. Time: 09:00 AM to 01:00 PM. IEEE Attended: 3. Guests Attended: 45.
  2. IEEEExpand I - Expanding the World with Research : University of Indonesia, STB04391 - University of Indonesia. Technical collaboration with BRIN (National Research Agency). Date: 19 Mar 2022. Time: 10:00 AM to 12:00 PM. IEEE Attended: 8. Guests Attended: 77.
  3. IEEEExpand II - Accelerating Digital Transformation in Challenging Time : University of Indonesia, STB04391 - University of Indonesia. Date: 21 May 2022. Time: 10:00 AM to 01:00 PM. IEEE Attended: 12. Guests Attended: 43.
  4. IEEEEnhance: Strengthen your Future Career in The Competitive Era with Experienced Alumni : University of Indonesia, STB04391 - University of Indonesia. Date: 23 Jul 2022. Time: 09:00 PM to 11:00 PM. IEEE Attended: 14. Guests Attended: 64.
  5. IEEE Day 2022: "The Leverage of Technology in Post-Pandemic Indonesia" : University of Indonesia, STB04391 - University of Indonesia. Date: 08 Oct 2022. Time: 10:30 AM to 12:00 PM. IEEE Attended: 163. Guests Attended: 11.
  6. Guest Lecture - Future of Satelite Technology for Telecommunication: Udayana University, STB17451 - Udayana University. Date: 11 Nov 2022. Time: 09:00 AM to 12:30 PM. IEEE Attended: 45. Guests Attended: 70.
- Number of active Student Branches (Student Branches who have reported required number of meetings during the year)  
Among 33 Student Branches, only 6 Student Branches have reported their activities in the VTools. Then there are one Student Branch Chapter and one Student Branch Affinity have their reported in the VTools.
  1. STB17451 - Udayana University: 15 activities
  2. STB04391 - University of Indonesia: 15 activities
  3. STB66624 - Universitas Pertamina: 5 activities
  4. STB99974 - University of Raharja: 20 activities
  5. STB99076 - Pakuan University: 1 activity
  6. STB11381 - Bina Nusantara University: 1 activity
  7. SBC06341 - Telkom University,GRS29: 2 activities
  8. SBA07091 - Institut Teknologi Bandung, WIE: 1 activity
- Summary of Student Branch activities (Student Branch wise with attachment table/information)
  1. Call New Member 2022 EXCOMM Meet : Udayana University, STB17451 - Udayana University. Date: 09 Jan 2022. Time: 07:00 PM to 08:30 PM. IEEE Attended: 8. Guests Attended: 2.
  2. IEEE SBUI's Meeting with the Department of Electrical Engineering, Faculty of Engineering, Universitas Indonesia : University of Indonesia, STB04391 - University of Indonesia. Date: 26 Jan 2022. Time: 01:00 PM to 03:00 PM. IEEE Attended: 6. Guests Attended: 1.
  3. Meeting with Counselors : Udayana University, STB17451 - Udayana University. Date: 27 Jan 2022. Time: 07:00 PM to 09:00 PM. File report.
  4. Plenary Meeting I IEEE SBUI 2022 : University of Indonesia, STB04391 - University of Indonesia. Date: 31 Jan 2022. Time: 08:00 PM to 11:00 PM. IEEE Attended: 14. Guests Attended: 0.
  5. IEEE ITB Student Branch Asia-Pacific Student Convention: Institut Teknologi Bandung, WIE, SBA07091 - Institut Teknologi Bandung, WIE. Date and time: 12 Feb 2022 - 13 Feb 2022 04:40 PM. File report.

6. IEEE Universitas Pertamina Student Branch x HMIK Webinar : Universitas Pertamina, STB66624 - Universitas Pertamina. Date: 12 Feb 2022. Time: 05:00 PM to 08:20 PM. IEEE Attended: 3. Guests Attended: 90.
7. Socialization IEEE Raharja Student Branch with Committee IEEE Indonesia : University of Raharja, STB99974 - University of Raharja. Date: 23 Feb 2022. Time: 01:00 PM to 02:00 PM. IEEE Attended: 6. Guests Attended: 2.
8. First Onboard IEEE SBUI 2022 : University of Indonesia, STB04391 - University of Indonesia. Date: 28 Feb 2022. Time: 01:00 PM to 02:30 PM. IEEE Attended: 46. Guests Attended: 0.
9. EXCOMM Weekly Meet: Udayana University, STB17451 - Udayana University. Date: 28 Feb 2022. Time: 07:00 PM to 08:30 PM. IEEE Attended: 8. Guests Attended: 0.
10. Search & Recruit New Officers of IEEE Universitas Pertamina Student Branch Meeting's : Universitas Pertamina, STB66624 - Universitas Pertamina. Date: 03 Mar 2022 - 07 Mar 2022. IEEE Attended: 10. Guests Attended: 0.
11. Grand Launching IEEE SBUI 2022 x Exercise FTUI 2022 x ASBE UI 2022 : University of Indonesia, STB04391 - University of Indonesia. Date: 05 Mar 2022. Time: 01:00 PM to 04:00 PM. IEEE Attended: 47. Guests Attended: 60.
12. Expand your Network with IEEE Memberships : Pakuan University, STB99076 - Pakuan University. Date: 06 Mar 2022. Time: 10:00 AM to 01:00 PM. File report.
13. Expand Your Network with IEEE Membership : University of Raharja, STB99974 - University of Raharja. Date: 06 Mar 2022. Time: 10:00 AM to 02:00 PM. IEEE Attended: 10. Guests Attended: 100.
14. Applying Applicant for IEEE Universitas Pertamina Student Branch Meeting's : Universitas Pertamina, STB66624 - Universitas Pertamina. Date: 08 Mar 2022. Time: 08:00 PM to 11:00 PM. IEEE Attended: 10. Guests Attended: 0.
15. The Funtastic Gamichain : University of Raharja, STB99974 - University of Raharja. Date: 11 Mar 2022. Time: 02:00 PM to 03:00 PM. Pre-U STEM Program > Student Workshop. IEEE Attended: 19. Guests Attended: 41.
16. EXCOMM Weekly Meet : Udayana University, STB17451 - Udayana University. Date: 11 Mar 2022. Time: 07:00 PM to 08:00 PM. IEEE Attended: 8. Guests Attended: 0.
17. Sukses Buat Startup Tanpa Modal : University of Raharja, STB99974 - University of Raharja. Date: 11 Mar 2022. Time: 07:00 PM to 08:00 PM. IEEE Attended: 19. Guests Attended: 41.
18. How to be a web of science reviewer : University of Raharja, STB99974 - University of Raharja. Date: 12 Mar 2022. Time: 09:30 AM to 01:00 PM. IEEE Attended: 10. Guests Attended: 49. Professional > Continuing Education.
19. IEEE Universitas Pertamina Student Branch - On Boarding Event : Universitas Pertamina, STB66624 - Universitas Pertamina. Date: 12 Mar 2022. Time: 01:00 PM to 03:00 PM. IEEE Attended: 22. Guests Attended: 0. Technical event.
20. Board of Director of IEEE Universitas Pertamina Student Branch Activity Planning Meeting's : Universitas Pertamina, STB66624 - Universitas Pertamina. Administrative > Officer Training. Date: 13 Mar 2022. Time: 09:00 PM to 10:00 PM. IEEE Attended: 10. Guests Attended: 0.
21. IEEEExpand I - Expanding the World with Research : University of Indonesia, STB04391 - University of Indonesia. Technical collaboration with BRIN (National Research Agency). Date: 19 Mar 2022. Time: 10:00 AM to 12:00 PM. IEEE Attended: 8. Guests Attended: 77.
22. Kenali Passion-mu untuk STARTUPRENEUR Impian : University of Raharja, STB99974 - University of Raharja. Nontechnical > Pre-University Activities. Date: 19 Mar 2022. Time: 02:00 PM to 03:00 PM. IEEE Attended: 19. Guests Attended: 43.
23. EXCOMM Weekly Meet : Udayana University, STB17451 - Udayana University. Date: 19 Mar 2022. Time: 09:00 PM to 09:30 PM. IEEE Attended: 8. Guests Attended: 0.
24. Kunci Sukses Menjadi Entrepreneur Startup : University of Raharja, STB99974 - University of Raharja. Nontechnical > Pre-University Activities. Date: 30 Mar 2022. Time: 10:00 AM to 11:25 AM. IEEE Attended: 19. Guests Attended: 46.
25. Product Incubation 2022 : Bina Nusantara University, STB11381 - Bina Nusantara University. Technical event. Date: 01 Apr 2022 - 05 Apr 2022. File report.
26. EXCOMM Weekly Meet : Udayana University, STB17451 - Udayana University. Date: 28 Feb 2022. Time: 07:00 PM to 08:30 PM. IEEE Attended: 8. Guests Attended: 0.
27. Internal Development Class 1: How to Create a Professional Linkedin Profile and Internship Resume for Undergraduates : University of Indonesia, STB04391 - University of Indonesia. Professional > Professional Development. Date: 16 Apr 2022. Time: 10:00 AM to 11:35 AM. IEEE Attended: 33. Guests Attended: 0.

28. Statutes and Bylaws Discussion Meeting : Udayana University, STB17451 - Udayana University. Date: 22 Apr 2022. Time: 07:00 PM to 08:30 PM. IEEE Attended: 20. Guests Attended: 1.
29. IEEEExcel: Accelerate yourself in Data Analytics and Visualization with Experts : University of Indonesia, STB04391 - University of Indonesia. Technical event. Date: 23 Apr 2022 - 24 Apr 2022. IEEE Attended: 3. Guests Attended: 27.
30. Get to Know the Role Life as a Starpreneur Multiproduct : University of Raharja, STB99974 - University of Raharja. Nontechnical > Pre-University Activities. Date: 24 Apr 2022. Time: 08:00 PM to 09:15 PM. IEEE Attended: 19. Guests Attended: 37.
31. World Telecommunication Day 2022: Infographic Competition by IEEE SBUI x Telcolab UI 2022 : University of Indonesia, STB04391 - University of Indonesia, Date: 10 May 2022 – 15 May 2022. IEEE Attended: 0. Guests Attended: 4
32. Workshop on Nano-Satellite Bus: Power System Design : Telkom University,GRS29, SBC06341 - Telkom University,GRS29. Date: 21 May 2022. Time: 09:00 AM to 01:00 PM. IEEE Attended: 3. Guests Attended: 45.
33. IEEEExpand II - Accelerating Digital Transformation in Challenging Time : University of Indonesia, STB04391 - University of Indonesia. Date: 21 May 2022. Time: 10:00 AM to 01:00 PM. IEEE Attended: 12. Guests Attended: 43.
34. Workshop Ground Penetrating Radar and It's Applications: Telkom University, GRS29, SBC06341 - Telkom University,GRS29. Date: 14 May 2022. Time: 09:30 AM to 03:25 PM. File report.
35. EXCOMM Weekly Meet : Udayana University, STB17451 - Udayana University. Date: 10 Aug 2022. Time: 08:30 PM to 09:10 PM. IEEE Attended: 9. Guests Attended: 0.
36. Student Branch Visit 1.0: IEEE SB UI x IEEE SB ITS : University of Indonesia, STB04391 - University of Indonesia
37. IEEE Facility Sosialization 2022 : Udayana University, STB17451 - Udayana University
38. IEEEEnhance : Strengthen your Future Career in The Competitive Era with Experienced Alumni : University of Indonesia, STB04391 - University of Indonesia
39. Internal English Development Class : University of Indonesia, STB04391 - University of Indonesia
40. EXCOMM Weekly Meet : Udayana University, STB17451 - Udayana University,
41. Pengukuhan Guru Besar Prof. Dr. Ir. Untung Rahardja, M.T.I., MM. : University of Raharja, STB99974 - University of Raharja
42. Workshop IEEE 2022 : Udayana University, STB17451 - Udayana University
43. IEEE Day 2022: "The Leverage of Technology in Post-Pandemic Indonesia" : University of Indonesia, STB04391 - University of Indonesia
44. Raharja Cup : University of Raharja, STB99974 - University of Raharja
45. Financial Plans for University Students: Managing And Investing Your Money : University of Indonesia, STB04391 - University of Indonesia
46. Student Branch Visit 2.0: IEEE SB UI x IEEE SB Undip : University of Indonesia, STB04391 - University of Indonesia
47. Committee Meeting - IEEE Election Day 2022 : Udayana University, STB17451 - Udayana University
48. Transformation Program Introduction : University of Raharja, STB99974 - University of Raharja
49. Digital Mindset Generasi Millennial Indonsia : University of Raharja, STB99974 - University of Raharja
50. Meeting with Counselor and Head of Electrical Engineering Undergraduate Study Program : Udayana University, STB17451 - Udayana University
51. Blockchain Roadmap : University of Raharja, STB99974 - University of Raharja
52. Guest Lecture - Future of Satelite Technology for Telecommunication : Udayana University, STB17451 - Udayana University
53. Hobby Become A Startup Business : University of Raharja, STB99974 - University of Raharja
54. Mengenal Sistem Hukum Indonesia di Era Digital : University of Raharja, STB99974 - University of Raharja
55. Mudahnya Laporan Perpajakan Bagi Siapapun : University of Raharja, STB99974 - University of Raharja
56. SmartPLS in Artificial Intelligence : University of Raharja, STB99974 - University of Raharja
57. IEEE Creative Communication and Innovative Technology (ICCIT 2022) : University of Raharja, STB99974 - University of Raharja
58. IEEE Election Day 2022 : Udayana University, STB17451 - Udayana University
59. Penganugerahan Pemenang Lomba Karya Tulis Ilmiah (LKTI) 2022 : University of Raharja, STB99974 - University of Raharja



## B.5 Affinity Group Activities

Indonesia Section has three affinity groups. Below are their activities.

- Young Professional (YP)
  1. IEEE Young Professionals Indonesia Section 2022 Outreach - Building Career with IEEE in Extended Pandemic Time : Indonesia Section Affinity Group, YP, YP00059 - Indonesia Section Affinity Group, YP. Date: 02 Aug 2022. Time: 08:30 AM to 12:00 PM.
- Women In Engineering (WIE)

Women In Engineering (WIE) and the SIGHT on eHealth and Telemedicine Indonesia  
All the activities below were conducted by collaboration of the Women In Engineering (WIE) and the SIGHT on eHealth and Telemedicine Indonesia.

  1. Webinar Women in Digital Entrepreneurship: Indonesia Section, was joint organized by IEEE WIE, SIGHT on eHealth and Telemedicine Indonesia, Government Relations Activities, and Industry Relations Activities. Date: 21 April 2022. It was sponsored by by Ministry of Communications and Informatic of Republic of Indonesia. Participants: 37 IEEE member and 317 guests.
  2. IEEE WIE Indonesia Gathering: Networking, Collaboration, Funding Opportunities and AI Book Launching: Indonesia Section. It was joint organized by IEEE WIE, SIGHT on eHealth and Telemedicine Indonesia, and Industry Relations Activities. Date and Time: Sep 24, 2022. 08:00 – 15:30. Participants: 99 IEEE member, 36 guests.
- Life Member (LM)

NA.

## B.6 Awards & Recognition Activities

- Award constituted by the Section  
Indonesia Section has granted awards to the top three active chapters, active members who have published in IEEE journals in 2022, and to the Student Branch that won competition or contest, such as the IEEE Xtreme Competition. The award celebration was conducted on IEEE annual member gathering. Date and Time: August 6, 2022. 09:00 - 13:00. Participants: 101 IEEE members.
- Please list all Awards and Recognitions received by the Section, and members in the Section, from R 10 and IEEE HQ during the year  
NA.

## B.7 Communication Activities (Newsletter, Home Page, E-mail etc.)

- Newsletter (name and number of issues in the year): NA.
- Home Page of the Section (give the URL and how often it is updated)
- Other means of contacts with Section members including social media  
Indonesia Section uses Whatsapp, email [info@ieee.web.id](mailto:info@ieee.web.id) , and e-Notice as communications media. It also uses website <https://ieee.id/> , Youtube channel <https://www.youtube.com/c/IEEEIndonesia>, Facebook <https://www.facebook.com/IEEEIndonesia/> , Twitter <https://twitter.com/IEEEIndonesia>, and Instagram <https://www.instagram.com/ieee.indonesia/> to share information to the members and public. All the media is updated regularly, at least monthly.

## B.8 Industry Relations

- Membership growth and retention  
In fact membership growth and retention of industry member improve significant, as the innovative works have been done by the Section (see B1). In most activities, there were industry members involved, as well as in the committee member, such as in the Chapters, Affinity Groups, and Young Professional.
- Activities for/with industrial members  
As mention above that industrial members actively involved in all activities, such as activities for industrial members, activities with industrial members, and activities conducted by industrial members. Below are some examples.
  1. Webinar Women in Digital Entrepreneurship: Indonesia Section, was joint organized by IEEE WIE, SIGHT on eHealth and Telemedicine Indonesia, Government Relations Activities, and Industry Relations Activities. Date: 21 April 2022. It was sponsored by by Ministry of

Communications and Informatic of Republic of Indonesia. Participants: 37 IEEE member and 317 guests.

2. Joint technical activities with T-20 : Indonesia Section, it was a side event of T20 Indonesia, presented by Secretariat TF2 – T20 Indonesia in collaboration with Smart City and Community Innovation Center ITB (host institution of Task Force 2 – T20 Indonesia) supported by BAKTI KOMINFO and West Java Province Government. Date and time: 27 - 28 July 2022. Participants: IEEE Attended: 6 and Guests Attended: 92.
3. Meeting with ITDRI and signing MOU between IEEE IS and Indonesia Telecommunication & Digital Research Institute (ITDRI). Date and time: 6 August 2022. 13:00 - 16:00. Participants: 101 IEEE members.
4. IEEE IS - ITDRI CONFES 2022, Date: 12 Dec 2022. Time: 09:00 AM to 11:00 AM. IEEE Attended: 57. Guests Attended: 16. This was a hybrid activity. Indonesia Telecommunication & Digital Research Institute. (<https://itdri.id/>); ITDRI Conference & Festival 2022, which IEEE Indonesia Section, IEEE Communications Society Indonesia Chapter, IEEE Computer Society Indonesia Chapter & IEEE Oceanic Engineering and Technology and Engineering Management Joint Societies Indonesia Chapter, delivered and involved in discussion about "Research and Innovation for Sustainable Development of Indonesia by IEEE Indonesia".
5. Disaster Risk Reduction System App for Disaster mitigation has been launching on Sep 28, 2022. This app was result of collaboration the Section with many organization and stakeholder including industry and government.

## B.9 Humanitarian Technology Activities

- Humanitarian Technology related activities supported by the Section including collaboration with other OUs.

Some activities that have been organized by collaboration of OUs of Indonesia Section were Humanitarian Technology related activities, such as below.

1. Webinar Women in Digital Entrepreneurship: Indonesia Section, was joint organized by IEEE WIE, SIGHT on eHealth and Telemedicine Indonesia, Government Relations Activities, and Industry Relations Activities. Date: 21 April 2022. It was sponsored by by Ministry of Communications and Informatic of Republic of Indonesia. Participants: 37 IEEE member and 317 guests.
2. IEEE Young Professionals Indonesia Section 2022 Outreach - Building Career with IEEE in Extended Pandemic Time : Indonesia Section Affinity Group, YP, YP00059 - Indonesia Section Affinity Group, YP. Date: 02 Aug 2022. Time: 08:30 AM to 12:00 PM.
3. Disaster Risk Reduction System (DIREDUCE) App for Disaster mitigation has been launching on Sep 28, 2022. This app was result of collaboration the Section with many organizations and stakeholder including industry and government, see picture 1 below.



Fig. 1. Flyer of DIREDUCE App Launching

- SIGHT Activities

The activities from the SIGHT in collaboration with other OUs and with WIE Indonesia Section, as listed above (see. B5).

## **B.10 Community Activities**

- IEEE Social activities (Family day, IEEE day, Engineers Week)”
  1. IEEE IE Member Gathering : Indonesia Section. Date: 06 Aug 2022. Time: 09:00 AM to 01:00 PM. IEEE Attended: 101. Guests Attended: 0.
  2. IEEE IS Awarding : Indonesia Section. Date: 06 Aug 2022. Time: 09:00 AM to 01:00 PM. IEEE Attended: 101. Guests Attended: 0.
  3. IEEE WIE Indonesia Gathering: Networking, Collaboration, Funding Opportunities and AI Book Launching: Indonesia Section. It was joint organized by IEEE WIE, SIGHT on eHealth and Telemedicine Indonesia, and Industry Relations Activities. Date and Time: Sep 24, 2022. 08:00 – 15:30. Participants: 99 IEEE member, 36 guests.
  4. IEEE Day 2022: "The Leverage of Technology in Post-Pandemic Indonesia" was co-hosted by IEEE Indonesia Section and STB04391SB University of Indonesia. Date: 08 Oct 2022. Time: 10:30 AM to 12:35 PM. IEEE Attended: 154. Guests Attended: 0. This event had two keynote speakers, and one of them was Directorate General of Higher Education, Ministry of Education, Culture, Research and Technology, Republic of Indonesia.
  5. Signing MOU between IEEE IS and Indonesia Telecommunication & Digital Research Institute (ITDRI). Date and time: 6 August 2022. 13:00 - 16:00. Participants: 101 IEEE members.
  6. IEEE IS - ITDRI CONFES 2022, Date: 12 Dec 2022. Time: 09:00 AM to 11:00 AM. IEEE Attended: 57. Guests Attended: 16. This was a hybrid activity. Indonesia Telecommunication & Digital Research Institute. (<https://itdri.id/>); ITDRI Conference & Festival 2022, which IEEE Indonesia Section, IEEE Communications Society Indonesia Chapter, IEEE Computer Society Indonesia Chapter & IEEE Oceanic Engineering and Technology and Engineering Management Joint Societies Indonesia Chapter, delivered and involved in discussion about "Research and Innovation for Sustainable Development of Indonesia by IEEE Indonesia".
  7. Professional Activities: Member gathering IEEE ComSoc Indonesia Chapter : Indonesia Section Chapter,COM19, CH10273.

## **PART C - OTHERS**

### **C.1 Special Events**

- Please briefly describe the importance of special events and the outcomes achieved
  - The events below are special and bring important outcomes for the IEEE Indonesia Section. All the events have extended the expose of the IEEE widely to education institutions (public and private institutions), industries, NGOs, gender perspectives, young generations, and other community. Two event were attended and opened by the Minister of Information Communication of Republic of Indonesia, Deputy of the Minister of Women Empowerment of Republic of Indonesia, and Director General of Higher Education. In term of participants, two events were attended by more than 300 participants. The outcome for these events are increase of student branches, more penta-helix collaboration for activities management, active involvement of the Section Chair in Directorate General of Higher Education to give recommendation for future education in Indonesia, active participation of the Section in all Government Sectors, and many more cooperation – collaborations invitations from many institutions/industries to come. Another event was strong support of the Section to conduct several activities in East of Indonesia and 3T (frontiers, outermost, and least developed regions), to give benefit to them
    1. IEEE Day 2022: "The Leverage of Technology in Post-Pandemic Indonesia" was co-hosted by IEEE Indonesia Section and STB04391SB University of Indonesia. Date: 08 Oct 2022. Time: 10:30 AM to 12:35 PM. IEEE Attended: 154. Guests Attended: 0. This event had two keynote speakers, and one of them was Directorate General of Higher Education, Ministry of Education, Culture, Research and Technology, Republic of Indonesia.
    2. Webinar Women in Digital Entrepreneurship: Indonesia Section, was joint organized by IEEE WIE, SIGHT on eHealth and Telemedicine Indonesia, Government Relations Activities, and Industry Relations Activities. Date: 21 April 2022. It was sponsored by by Ministry of Communications and Informatic of Republic of Indonesia. Participants: 37 IEEE member and 317 guests.
    3. IEEE goes to Papua. Date and time: 26 Aug 2022 - 27 Aug 2022. IEEE Attended: 3. Guests Attended: 30. This event was to train lecturers and students in writing IEEE journal papers.

4. IEEE goes to University of Papua. Date: 27 Aug 2022. Time: 07:00 AM to 10:00 AM. IEEE Attended: 1. Guests Attended: 127. This event was to deliver guest lecture to University of Papua' students on Digital Transformation in Education in facing Industry Revolution 4.0.
5. Signing MOU between IEEE IS and Indonesia Telecommunication & Digital Research Institute (ITDRI). Date and time: 6 August 2022. 13:00 - 16:00. Participants: 101 IEEE members.
6. Disaster Risk Reduction System (DIREDUCE) App for Disaster mitigation has been launching on Sep 28, 2022. This app was result of collaboration the Section with many organizations and stakeholder including industry and government.

- Funding secured from the IEEE and external sources including sponsorships

All the activities have got funding from the IEEE and other sources, such as from the Ministry of Communication and Informatics of Republic of Indonesia, in kind funding from the US Embassy to use at America meeting hall . Recently IEEE Indonesia Section has stability in term of finance (see A.2.).

## **C.2 Relationship with National and International Societies and Non-Government Organizations (NGO)**

IEEE Indonesia Section has a good collaboration with Industries, NGOs, and National Societies, such as PII (Indonesia Engineers Societies), Gender Perspective Association, ISPO (*Indonesian Science Project Olympiad*) Society (<https://ispo.or.id/>), APTIKOM (Indonesian Association of Higher Education in Computer Science), FORTEI (Indonesian National Electrical Engineering Forum), ITDRI (Indonesia Telecommunication & Digital Research Institute), and ISPO (Indonesian Science Project Olympiad). IEEE Indonesia Section has involved in several meetings with an International Society such as the US Embassy to develop STEM activities for high school students. The Section has several joined activities with these societies and has signed formal agreement for example with ITDRI this year. These will bring benefits to the IEEE Member such as sharing the technical information, experience recognition and membership level (IEEE, PII, ITDRI), discounts for the events registration, facilitating of internships, etc. Thus it will bring benefit to the Section, such as membership growth, promotions, facility sharing and saving, expert sharing, involvement in nation development, and network expanded.

## **C3. Collaboration with other IEEE Sections**

- List of activities above has shown good collaborations with Chapters and Affinity Groups from other Sections. Most of them are joint activities in term of conference, seminar, distinguished lecture program, workshop, and training programs.

## **C.4 Support extended to Sub-sections & Society Chapters within the Section**

IEEE Indonesia supports in forming new Sub – Sections both in the Eastern Indonesia and Western Indonesia. Several meetings have been conducted with the Western Region Coordinators, and Eastern Indonesia Region Coordinators, Advisory Boards, and in general meeting with all committee members. However its progress is quite slow due to many reasons. The support of the Section for new sub-sections and society chapters has been one of the work programs 2022.

## **C.5 Best Practices of your Section (which you would like to share with other Sections for the benefits of members)**

- Bridging student and lecturer internship programs in various industries and Indonesian research institutions.
- Support, facilitate the participation of IEEE Indonesia's Student Branch in IEEE contests and events, and providing award to the winners.
- Hold a free IEEE Conference Quality Management workshop regularly.
- Provide new payment system for membership fee <https://iee.id/membership/payment-via-ieee-is/> that assists all members and new members who don't have credit card or others electronic payment account. They can do payment in local currency.
- Strengthen relationships and collaborations internally between section, chapters, affinity groups, student branch, and externally as a penta-helix collaboration (government, industry, media, academy, professionals and other technical and social communities).

- Improving the quality of conferences in Indonesia, IEEE Indonesia Section organizes free Workshop on Conference Management regularly, provides new options of LOA types, i.e. LOA Schema A, B1, and B2 (<https://ieeetw.org/organizing-a-conference/>), and Self-Quality-Conference-Assessment Tool. In addition to encourage all organizers to collaborate with Chapters and Student Branch. These raise number of conferences activities in 2022 and the quality of those conferences will be expected increase.
- IEEE Indonesia Section increase membership from East of Indonesia and 3T (frontiers, outermost, and least developed regions), and provide them access for high quality information. Thus we are focusing several activities conducted in East of Indonesia and 3T regions.

### **C.6 Problems anticipated and suggestions for solutions, if any**

- IEEE Indonesia Section needs to increase its membership from private universities, east part of Indonesia, students, industries, and government. Therefore the Section suggests the solutions to keep the good established relationship, to continue good programs, and to do the recommendations below.
  1. Conducting expertise exchange programs for IEEE members through online-based courses and training.
  2. Organizing events that accommodate the interests of each component of IEEE members in Indonesia, including those working outside Java and in Eastern Indonesia, in the industrial and government sectors, new graduates starting their careers, as well as undergraduate and postgraduate students.
  3. Bridging student and lecturer internship programs in various industries and Indonesian research institutions.
  4. Exchange information on government, industry and university research programs.
  5. Facilitate the study and dissemination of government regulations related to technology and its applications.
  6. Encouraging the growth of IEEE standards-based Professional Certification Bodies and actively involved in implementing standards and socializing the latest standards.
  7. Encourage and support the government in creating regulations that foster a research ecosystem that supports the growth of technology-based products in Indonesia.
  8. Increasing the support and facilitate the participation of IEEE Indonesia's Student Branch in IEEE contests and events.
  9. Increasing the number of new IEEE Indonesia members from many backgrounds who interest with the technology relate to the IEEE.
  10. Creating new and innovative activities.
  11. Provide financial flexibility in the implementation of the IEEE Conference and other IEEE activities in Indonesia.

## **PART D - GOALS AND PLANS**

### **D.1 Continuation of project/activity in progress and their implementation plans**

- IEEE Indonesia Section will run all 2022 good programs that bring good impacts.
- IEEE Indonesia Section will carry out the 2022 MOU agreement in the form of activities which involves many OUs.
- IEEE Indonesia Section will produce some innovative strategic, work program, and activities.
- IEEE Indonesia Section will continue to support all activities that already conducted in previous years.
- IEEE Indonesia Section supports in forming new sub-Sections, Chapter and new Student Branch.
- IEEE Indonesia Section will develop and maintain a good relationship with industry, government, and other communities. We will increase to conduct several activities in collaboration with industry, government, and communities in term of both their quality and quantity.

### **D.2 Goals and Future Plans**

- IEEE Indonesia Section's vision is 'Realizing IEEE Indonesia as a leading science & technology and professional organization in Indonesia'.
- Therefore its mission to the future goals is 'to improve the relevance, quality, and quantity of human resources related to higher education and industry through increasing skills and professionalism in science & technology and innovation so as to increase national and humanitarian competitiveness'.
- IEEE Indonesia Section's future plans are:

- To maximize the benefits to members.
- To improve the quality of technical activities in Indonesia.
- To boost the membership of Indonesia Section in all area in Indonesia.
- To enhance the relationship and collaboration with all societies nationally and globally.
- More programs to be conducted to rural areas, so they can feel the benefit of IEEE.
- More humanitarian activities with involvement of SB and members all over Indonesia.

### **D.3 Any innovative ideas to make IEEE more creative and value added for sustaining the membership retention and recruitment goals.**

- Collaborations with key and leading industries in Indonesia and globally.
- Collaboration with Government to gain access to the nation development.
- Penta-helix collaborations, such as collaborations with important media (mainstream media and online media), and collaborations with local government, villages head, and public figures in term of applications of technology for humanity.

### **D.4 Business Plan for Sustainable Growth and Financial Stability.**

- Strengthen relationships and collaborations internally between section, chapters, affinity groups, student branch, and externally as a penta-helix collaboration (government, industry, media, academy, professionals and other technical and social communities).
- Improving the quality of conferences in Indonesia, IEEE Indonesia Section organizes Workshop on Conference Management regularly, provides new options of LOA types, i.e. LOA Schema A, B1, and B2 (<https://iee.id/organizing-a-conference/> ), Self-Quality-Conference-Assessment Tool, and conference management application. In addition to encourage all organizers to collaborate with Chapters and Student Branch.
- Committee of IEEE Indonesia Section includes government, industry, academic, entrepreneurs, students, young and professionals, gender representatives, and others. We keep conducting several workshops that involved them to bridge the gap between IEEE and them.
- The Section increases activities conducted in East of Indonesia and 3T (frontiers, outermost, and least developed regions).
- IEEE Indonesia Section promotes, encourages, and supports in forming new Chapters and new Student Branches in Indonesia and keep monitoring the vitality of these Chapters and SB.
- To enhance the benefits to members by providing high quality technical information through workshop, technical seminar, courses, DLP, and conferences.
- To ensure the sustainable growth and financial stability of Section, Chapters, Affinity Groups, and Student Branches. Then to maintain the student members after graduation and assist them in leveraging into Professional Member. Finally to leveraging members into Senior Members to increase the membership retention. IEEE Indonesia Section also promotes Senior Members and invites them to the major IEEE conferences/technical events.
- To provide new payment system for membership fee <https://iee.id/membership/payment-via-ieee-is/> that assists all members and new members who don't have credit card or others electronic payment account. They can do payment in local currency.
- Promoting membership benefit to increase member.
- Improving conference sponsorship agreement and procedures.

# Appendix of Indonesia Section Report

## APPENDIX

### B.3 List of Professional and Continuing Education Activities

#### Year 2022

1. International Forum on Applied Information Technology and Social Informatics (IFAITSI 2022) : Indonesia Section Chapter, C16, CH10784
2. Professional Activities: Member gathering IEEE ComSoc Indonesia Chapter : Indonesia Section Chapter, COM19, CH10273
3. International Conference on Sciences and Technology (ICOSTECH) 2022 : Indonesia Section Chapter, C16, CH10784
4. "IEEE LECTURE ON INTRODUCTION TO MICROELECTRONICS & BIOMEDICAL ENGINEERING FOR UNDERGRADUATE STUDENTS" : Indonesia Section Chapter, EMB18, CH10357 - Indonesia Section Chapter, EMB18, CH10770 - Indonesia Section Chapter, SIT30
5. Kearifan Lokal, Hikayat, Toponimi: Narasi Entitas Sunda terkait Unsur Wilayah Laut dan Pesisir. : Indonesia Section Joint Chapter, OE22/TEM14, CH10963
6. Technical: Webinar Foundation and Application Indoor Positioning System (IPS) : Indonesia Section Chapter, COM19, CH10273
7. "IEEE LECTURE ON INTRODUCTION TO MICROELECTRONICS & BIOMEDICAL ENGINEERING FOR UNDERGRADUATE STUDENTS" - Part 2 : Indonesia Section Chapter, EMB18, CH10357 - Indonesia Section Chapter, EMB18, CH10770 - Indonesia Section Chapter, SIT30
8. Webinar: Telco Sharing Session - Improve Productivity From Home For Telecom Engineer : Indonesia Section Chapter, COM19, CH10273 - Indonesia Section Chapter, COM19
9. Webinar: Training - 5G Radio Network Planning. : Indonesia Section Chapter, COM19, CH10273 - Indonesia Section Chapter, COM19
10. Webinar: Workshop Technical Program Management - IEEE Conference Management : Indonesia Section Chapter, COM19, CH10273 - Indonesia Section Chapter, COM19
11. Webinar: Learn & Donate Webinar Series: Indonesia Section Chapter, COM19, CH10273 - Indonesia Section Chapter, COM19
12. Scientific Talk 42 series : The Protein Engineering: Challenges and Opportunity : Indonesia Section Chapter, C16, CH10784 - Indonesia Section Chapter, C16
13. 2nd Workshop on Ground Penetrating Radar and Its Applications: Indonesia Section Joint Chapter, GRS29/AES10, CH10629 - Indonesia Section Joint Chapter, GRS29/AES10
14. International Workshop on NANO-SATELLITE BUS: POWER SYSTEM DESIGN : Indonesia Section Joint Chapter, GRS29/AES10, CH10629 - Indonesia Section Joint Chapter, GRS29/AES10
15. GRSS Summer School on Planning and Design a SAR Remote Sensing Satellite, Part 1 : Indonesia Section Joint Chapter, GRS29/AES10, CH10629 - Indonesia Section Joint Chapter, GRS29/AES10
16. GRSS Summer School on Planning and Design a SAR Remote Sensing Satellite, Part 2 : Indonesia Section Joint Chapter, GRS29/AES10, CH10629 - Indonesia Section Joint Chapter, GRS29/AES10
17. WEB-SEMINAR ON THE NANO HIGH THROUGHPUT SATELLITE TECHNOLOGIES & HTS APPLICATIONS IN INDONESIA FOR BROADBAND COMMUNICATIONS : Indonesia Section Joint Chapter, GRS29/AES10, CH10629 - Indonesia Section Joint Chapter, GRS29/AES10
18. The International Workshop on Artificial Intelligence and the Environment from The Global South : Indonesia Section Joint Chapter, OE22/TEM14, CH10963 - Indonesia Section Joint Chapter, OE22/TEM14
19. The 2022 IEEE International Conference on Industry 4.0, Artificial Intelligence and Communications Technology (IAICT) : Indonesia Section Chapter, COM19, CH10273 - Indonesia Section Chapter, COM19
20. 2022 The Fifth International Conference on Vocational Education and Electrical Engineering (ICVEE) : Indonesia Section Chapter, COM19, CH10273 - Indonesia Section Chapter, COM19
21. General Lecture Radio Waves Propagation on Satellite Communications : Indonesia Section Chapter, MTT17/AP03, CH10458 - Indonesia Section Chapter, MTT17/AP03
22. The 2022 3rd International Conference on Electrical Engineering and Informatics (ICon EEI 2022) : Indonesia Section Chapter, MTT17/AP03, CH10458 - Indonesia Section Chapter, MTT17/AP03
23. HAPS International Seminar (HAPS 2022) : Indonesia Section Joint Chapter, GRS29/AES10, CH10629 - Indonesia Section Joint Chapter, GRS29/AES10, R00059 - Indonesia Section

24. The 11th IEEE International Conference on Communications, Network, and Satellite (Comnetsat 2022) : Indonesia Section Chapter,COM19, CH10273 - Indonesia Section Chapter,COM19
25. ISESD 2022: International Symposium on Electronics and Smart Devices : Indonesia Section Chapter, SSC37, CH10652 - Indonesia Section Chapter, SSC37
26. Pushing the Energy-Efficiency of Deep Learning Accelerators with Hardware-Software Co-Design : Indonesia Section Chapter, SSC37, CH10652 - Indonesia Section Chapter, SSC37
27. The 2022 IEEE Symposium On Future Telecommunication Technologies (SOFTT) : Indonesia Section Chapter,COM19, CH10273 - Indonesia Section Chapter,COM19
28. The 7th International Conference on Computer Science and Computational Intelligence 2022 : Indonesia Section Chapter, C16, CH10784 - Indonesia Section Chapter, C16
29. International Conference on Information Technology and Digital Applications 2022 : Indonesia Section Chapter, C16, CH10784 - Indonesia Section Chapter, C16
30. IEEE Creative Communication and Innovative Technology : Indonesia Section Chapter, C16, CH10784 - Indonesia Section Chapter, C16
31. IEEE EDS Distinguished Lecture Fully Printed Flexible Electronics: Low Voltage TFTs and Novel NDR Devices : Indonesia Section Chapter, ED15, CH10788 - Indonesia Section Chapter, ED15
32. 2022 IEEE INTERNATIONAL CONFERENCE ON AEROSPACE ELECTRONICS AND REMOTE-SENSING TECHNOLOGY (ICARES 2022) : Indonesia Section Joint Chapter, GRS29/AES10, CH10629 - Indonesia Section Joint Chapter, GRS29/AES10
33. The 1st International Conference on Information Technology Application in Business : Indonesia Section Chapter, C16, CH10784 - Indonesia Section Chapter, C16
34. The 2022 IEEE Asia Pacific Conference on Wireless and Mobile (APWiMob) : Indonesia Section Chapter,COM19, CH10273 - Indonesia Section Chapter,COM19
35. 2022 IEEE Asia-Pacific Conference on Geoscience, Electronics and Remote Sensing Technology (AGERS 2022) : Indonesia Section Joint Chapter, GRS29/AES10, CH10629 - Indonesia Section Joint Chapter, GRS29/AES10
36. IEEE EDS (ED Indonesia Chapter) Distinguished Lecture:Prof Patrick Fay/U of Notre Dame:"III-N MM-Wave Transistors For Linearity,Efficiency and Reconfigurability", Prof Grace Xing/Cornell University:"Gallium Oxide Semiconductors: progress & future" : Indonesia Section Chapter, ED15, CH10788 - Indonesia Section Chapter, ED15.
37. Workshop on Nano-Satellite Bus: Power System Design : Telkom University,GRS29, SBC06341 - Telkom University,GRS29.
38. IEEEExpand II - Accelerating Digital Transformation in Challenging Time : University of Indonesia, STB04391 - University of Indonesia
39. Workshop Ground Penetrating Radar and It's Applications : Telkom University,GRS29, SBC06341 - Telkom University,GRS29
40. IEEEEnhance : Strengthen your Future Career in The Competitive Era with Experienced Alumni : University of Indonesia, STB04391 - University of Indonesia
41. IEEE Day 2022: "The Leverage of Technology in Post-Pandemic Indonesia" : University of Indonesia, STB04391 - University of Indonesia
42. Guest Lecture - Future of Satelite Technology for Telecommunication : Udayana University, STB17451 - Udayana University
43. The Funtastic Gamichain : University of Raharja, STB99974 - University of Raharja
44. Sukses Buat Startup Tanpa Modal : University of Raharja, STB99974 - University of Raharja
45. How to be a web of science reviewer : University of Raharja, STB99974 - University of Raharja
46. IEEEExpand I - Expanding the World with Research : University of Indonesia, STB04391 - University of Indonesia
47. Kenali Passion-mu untuk STARTUPRENEUR Impian : University of Raharja, STB99974 - University of Raharja
48. Kunci Sukses Menjadi Entrepreneur Startup : University of Raharja, STB99974 - University of Raharja
49. Product Incubation 2022 : Bina Nusantara University, STB11381 - Bina Nusantara University
50. Internal Development Class 1: How to Create a Professional LinkedIn Profile and Internship Resume for Undergraduates : University of Indonesia, STB04391 - University of Indonesia
51. IEEEExcel: Accelerate yourself in Data Analytics and Visualization with Experts : University of Indonesia, STB04391 - University of Indonesia
52. Get to Know the Role Life as a Starpreneur Multiproduct : University of Raharja, STB99974 - University of Raharja
53. Get to Know the Role Life as a Starpreneur Multiproduct : University of Raharja, STB99974 - University of Raharja



54. World Telecommunication Day 2022: Infographic Competition by IEEE SBUI x Telcolab UI 2022 : University of Indonesia, STB04391 - University of Indonesia
55. Workshop on Nano-Satellite Bus: Power System Design : Telkom University,GRS29, SBC06341 - Telkom University,GRS29
56. IEEEExpand II - Accelerating Digital Transformation in Challenging Time : University of Indonesia, STB04391 - University of Indonesia
57. Workshop Ground Penetrating Radar and It's Applications : Telkom University,GRS29, SBC06341 - Telkom University,GRS29
58. IEEEEnhance : Strengthen your Future Career in The Competitive Era with Experienced Alumni : University of Indonesia, STB04391 - University of Indonesia
59. Internal English Development Class : University of Indonesia, STB04391 - University of Indonesia
60. Financial Plans for University Students: Managing And Investing Your Money : University of Indonesia, STB04391 - University of Indonesia
61. Digital Mindset Generasi Millennial Indonesia : University of Raharja, STB99974 - University of Raharja
62. Blockchain Roadmap : University of Raharja, STB99974 - University of Raharja
63. Guest Lecture - Future of Satellite Technology for Telecommunication : Udayana University, STB17451 - Udayana University
64. Hobby Become A Startup Business : University of Raharja, STB99974 - University of Raharja
65. Mengenal Sistem Hukum Indonesia di Era Digital : University of Raharja, STB99974 - University of Raharja
66. Mudahnya Laporan Perpajakan Bagi Siapapun : University of Raharja, STB99974 - University of Raharja
67. SmartPLS in Artificial Intelligence : University of Raharja, STB99974 - University of Raharja.
68. IEEE Creative Communication and Innovative Technology (ICCIT 2022) : University of Raharja, STB99974 - University of Raharja
69. IEEE Young Professionals Indonesia Section 2022 Outreach - Building Career with IEEE in Extended Pandemic Time : Indonesia Section Affinity Group, YP, YP00059 - Indonesia Section Affinity Group, YP. Date: 02 Aug 2022. Time: 08:30 AM to 12:00 PM.
70. Webinar Women in Digital Entrepreneurship: Indonesia Section, was joint organized by IEEE WIE, SIGHT on eHealth and Telemedicine Indonesia, Government Relations Activities, and Industry Relations Activities. Date: 21 April 2022. It was sponsored by by Ministry of Communications and Informatic of Republic of Indonesia. Participants: 37 IEEE member and 317 guests.
71. IEEE WIE Indonesia Gathering: Networking, Collaboration, Funding Opportunities and AI Book Launching: Indonesia Section. It was joint organized by IEEE WIE, SIGHT on eHealth and Telemedicine Indonesia, and Industry Relations Activities. Date and Time: Sep 24, 2022. 08:00 – 15:30. Participants: 99 IEEE member, 36 guests.
72. Joint technical activities with T-20 : Indonesia Section, it was a side event of T20 Indonesia, presented by Secretariat TF2 – T20 Indonesia in collaboration with Smart City and Community Innovation Center ITB (host institution of Task Force 2 – T20 Indonesia) supported by BAKTI KOMINFO and West Java Province Government. Date and time: 27 - 28 July 2022. Participants: IEEE Attended: 6 and Guests Attended: 92.
73. IEEE IS - ITDRI CONFES 2022, Date: 12 Dec 2022. Time: 09:00 AM to 11:00 AM. IEEE Attended: 57. Guests Attended: 16. This was a hybrid activity. Indonesia Telecommunication & Digital Research Institute. (<https://itdri.id/>); ITDRI Conference & Festival 2022, which IEEE Indonesia Section, IEEE Communications Society Indonesia Chapter, IEEE Computer Society Indonesia Chapter & IEEE Oceanic Engineering and Technology and Engineering Management Joint Societies Indonesia Chapter, delivered and involved in discussion about "Research and Innovation for Sustainable Development of Indonesia by IEEE Indonesia".
74. IEEE Day 2022: "The Leverage of Technology in Post-Pandemic Indonesia" was co-hosted by IEEE Indonesia Section and STB04391SB University of Indonesia. Date: 08 Oct 2022. Time: 10:30 AM to 12:35 PM. IEEE Attended: 154. Guests Attended: 0. This event had two keynote speakers, and one of them was Directorate General of Higher Education, Ministry of Education, Culture, Research and Technology, Republic of Indonesia.
75. IEEE goes to Papua. Date and time: 26 Aug 2022 - 27 Aug 2022. IEEE Attended: 3. Guests Attended: 30. This event was to train lecturers and students in writing IEEE journal papers.
76. IEEE goes to University of Papua. Date: 27 Aug 2022. Time: 07:00 AM to 10:00 AM. IEEE Attended: 1. Guests Attended: 127. This event was to deliver guest lecture to University of Papua' students on Digital Transformation in Education in facing Industry Revolution 4.0.
77. Webinar Penulisan Jurnal IEEE : Indonesia Section. Date: 18 Mar 2022. Time: 01:00 AM to 03:00 AM. IEEE Attended: 3. Guests Attended: 59. This activity was conducted online and for lectures in Papua.

78. IEEE IS - Best Practices for Organizing Conference : Indonesia Section. Date: 26 Mar 2022. Time: 09:30 AM – 12:00 PM. IEEE Attended: 77. Guests Attended: 0.
79. Disaster Risk Reduction System (DIREDUCE) App for Disaster mitigation has been launching on Sep 28, 2022. This app was result of collaboration the Section with many organizations and stakeholder including industry and government.