

SUSTAINABILITY REPORT 2019

SDG 17 'PARTNERSHIPS FOR THE GOALS'



KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY,
BHUBANESWAR, ODISHA, INDIA

SDG 17 Partnerships for Goals

1 Introduction:

The University aims to work for the benefits of the society in alignment with the various Sustainable Development Goals (SDGs) of the United Nations. As UN explains a successful development agenda requires inclusive partnerships at all levels, be it global, regional, national and local levels that are built upon principles and values, and upon shared vision and shared goals placing people and the planet at the centre. A better world, can only be formed if one is supportive, empathetic, inventive, passionate, and above all, cooperative. International investments and support is needed in order to ensure innovative technological development, fair trade and market access, especially for developing countries.

KIIT has always believed in collaboration with different countries of the world. It has signed MOU's with over 180 institutions across countries including

USA, countries of the European Union, Canada, South Korea, less privileged countries like Ethiopia, Sudan, Bangladesh and so on. It has actively involved in partnering with different countries for the mutual growth and development and has been successful in establishing linkages not only between other countries but also between institutions, governments, companies, NGOs, and people.

The University also works in close association with its sister organization, Kalinga Institute of Social Sciences, its internal societies, various national and international institutes and corporate as well as the central & state governments in this direction to make the feat a reality.

This report is organized as follows. Section 1 provides the introduction to the report. Section 2 mentions the goals of the University in attaining and contributing to SDG 17. Section 3 outlines the different policies and initiatives taken by the University in this respect during the year 2018-19. Section 4 provides the impact of these initiatives.

2 Objective: Enhancing partnerships for sustainable development

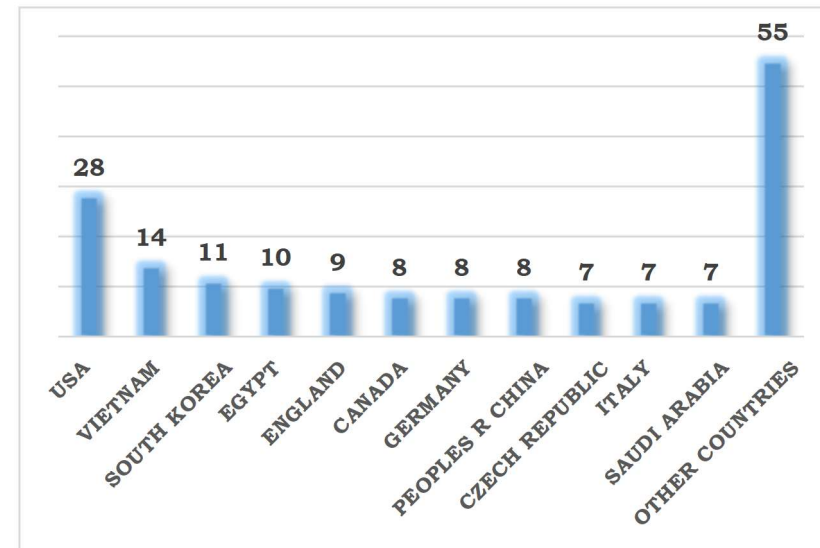
3 Policies and Initiatives:

The University is continually involved in outreach activities beyond the campus through its faculty members, staff and also its students. The University has collaboration through MOUs with 185 Universities and Research Institutes as well as 62 corporate from around the globe. SDG centre, featuring a full wall panel of the UN’s 17 SDGs as a visual reminder of the University’s commitment to work on the transformation of the world in keeping with the 2030 Agenda for Sustainable Development has been established in the campus

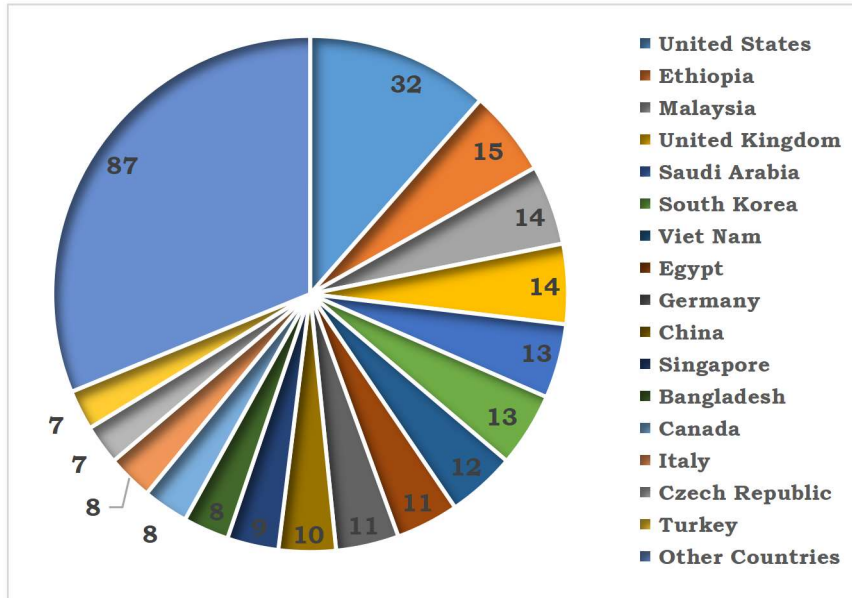
Highlights of all these activities are given in the following sections:

a) **Publications of papers:** KIIT has published papers in various peer reviewed journals (indexed in Scopus and Web of Science) in collaboration with

academicians and industry personnel from across the globe. Papers published in the year 2019, indexed in Web of science and scopus are 487 and 990 respectively. *Papers indexed in Web of Science and scopus in collaboration with international academicians country-wise has been provided as graph chart and pie chart respectively.*



Web of Science distribution of collaborative research work leading to research papers



Collaborative research work leading to research papers as per Scopus

b) Relationships to support the goals

International:

- KIIT shows keenness in enhancing the Global Partnership for Sustainable Development, which is complemented by

multi-stakeholder partnerships that mobilize and share knowledge, expertise, technology and financial resources, to support the achievement of the Sustainable Development Goals in all countries, particularly developing countries.

Government :

- The University is involved in expert opinion and advice through its involvement with a horde of national and international organizations under the umbrella of different associations and councils, which are directly or indirectly associated with addressing the SDGs, like *International Association of Universities (IAU)*, *Association of Commonwealth Universities (ACU)*, *University Mobility of Asia and the Pacific (UMAP)*, *International Association of University Presidents (IAUP)*, *Association*

of Universities of Asia and the Pacific (AUAP), International Institute of Education (IIE), New York, United Nations Academic Impact (UNAI) and Eurasian Silk Road Universities Consortium (ESRUC).

- Authorities and academicians of the University are members of different policy making bodies and those working under the aegis of the Government of India and Government of Odisha.

NGOS:

- KIIT collaborates at national and international level with the NGO's to work for developing the sustainable goals. It has initiated in assisting the developing countries to attain long-term debt sustainability through coordinated policies aimed at fostering debt financing, debt relief and debt restructuring, as appropriate, and

address the external debt of highly indebted poor countries to reduce debt distress.

- Kalinga Institute of Social Sciences (KISS), the sister concern of the University has been accorded special consultative status by the United Nations. The special consultative status confers a host of privileges and facilities on an NGO, which are similar to those conferred to a member country by the UN. The United Nations Economic and Social Council (UN-ECOSOC) has granted the prestigious recognition to KISS after concurrence by representatives of all the member countries. It is the first NGO from Odisha to get special consultative status from the UN.

c) Cross sectoral dialogues:

Various Seminars, conferences and talks are being organised in the campus for undergoing cross sectoral dialogues around the SDGs. Few are detailed below:

- Seminar on 'Early Childhood Care and Education - Indian Perspective' was held on 11th December 2019 in collaboration with Confederation of Indian Industry. The Ceremony was graced by Smt. Tukuni Sahu, Hon'ble Minister of Women and Child Welfare, Govt. of Odisha; Mr. Arvind Agarwal, Director, Department of Women and Child Development, Govt. of Odisha; Dr. Anubha Rajesh, Chair and Professor, Centre for Early Childhood Development and Research, Jamia Millia Islamia University; Dr. Mona Lisa Bal, Chairperson of Convenor Education Panel, CII Odisha State Council & Chairperson, KiiT International School; Mr. Prafulla Kumar Dhal, Convenor CSR, CII Odisha State Council & Mr. Kamal Agarwal YI Chairman, Bhubaneswar

Chapter. The discussions were held in two rounds. First round focused on need for providing early childhood care while the second round pondered over the ways to ensure quality access to these services.



Seminar on Early Childhood Care and Education - Indian Perspective

- Workshop on 'Gender Equity and Inclusion: Transformative Pathways in Higher Education' organized by KISS and KIIT Deemed to be University in association with Women in Security, Conflict Management and Peace

(WISCOMP)Supported by Public Affairs Section, U.S Embassy, New Delhi held from 27-30.11.2019.

Workshop on Gender Equity and Inclusion



Workshop on Gender Equity and Inclusion



d) Education for the SDGs

The University has been working on SDGs since its inception. Since beginning, the University has been seriously following the ‘ Education for All’ motto and providing fully free residential home for 30000 poorest of the poor indigenous/tribal children who are provided holistic education from Kindergarten to Post Graduation along with lodging, boarding, health care facilities besides vocational, life skills empowerment through Kalinga Institute of Social Sciences – KISS, Bhubaneswar, India. The University provides meaningful education around the SDGs across the university, in all its programmes.

KIIT has always looked ahead of time. It certainly aims to impart meaningful education to the students. Therefore it has implemented the methodology of future learning. It is one among the first universities to introduce smart classrooms with latest technology to facilitate the students. The faculties who teach here are well

acquainted with this multimedia mode of education which results in making the class more interactive and interesting. Its commitment to provide education is unconditional.

The curriculum for all its programmes have been designed based on the guidelines and recommendations of respective statutory bodies, respective International and National Accreditation agencies, academic peers and industry personnel of repute also keeping SDGs in mind.

Courses offered have curriculum consisting of topics and subjects revolving around the sustainability development goals (SDGs). There are courses on environmental science, green technology, renewable energy sources, non conventional energy systems, Quality Engineering & Management, Organisational Behavior, Tropical hydrology and Water Resources, Global warming & Climate Change, Green Buildings,

Environmental Chemistry, Solar Power Technology, Professional Ethics and Code of conduct and so on. Many such courses are offered as compulsory courses, while some as open electives. Since the University follows the Choice Based Credit System, the students across the university can opt for many such courses as mentioned above.

e) KIIT Skill Development Center:

KIIT Skill Development Center has been set up as part of a national skill development mission to fulfill the growing need in India for skilled manpower in selected sectors and narrowing the existing gap between the demand and supply of skills. This is a unit providing vocational training to help in bridging the gap between the skilled people required in Industry and the unemployed youth of the country. It also aims at producing the entrepreneurs for the nation enabling more employment opportunity. Due efforts are

underway to create a new wave of entrepreneurship in the country that will result in further employment generation. Counseling services are provided to ensure that the right student chooses the right course according to his/her academic background, aptitude and skill-set.

The skill development center has collaborated with national and international organizations, and Government to impart valuable skill development and vocational training to the potential young workforce of our country. Some of the partnerships are mentioned below:

1. Collaboration with Royal Government of Bhutan to conduct skill development programs for the potential Youth of Bhutan.
2. Collaboration with Odisha Rural Development and Marketing Society, Panchayati Raj, and Drinking Water Department, Government of Odisha to conduct Skill Development Programs

under Deen Dayal Upadhyal Grameen Kalyan Yojana.

3. Collaboration with All India Council of Technical Education to conduct Skill Development Program under Pradhan Mantri Kaushal Vikas Yojana Scheme.
4. Collaboration with Boeing India and Mercedes Benz to conduct certificate trainings to develop skilled technicians in the aerospace and automobile sector.
5. Collaboration with UNDP through KISS.

List of major programmes conducted are attached in **Appendix I**.

f) Bhutan Skill development

The University is the advisor of Royal Government of Bhutan on Higher Education. The University is imparting special training and skill development programmes to Teachers, Principals and Officials of Government of Bhutan since 2017.

Programmes conducted IN 2018-19 are :

- i. Training Program on "Cable Jointing and Termination" for Bhutan Power Corporation Ltd. was held in KIIT from 23rd to 31st July, 2018.
- ii. Management Development Programme (MDP) on "Effective 21st Century Leadership and Personality Development" for the delegates of Bhutan was organized in KIIT from 17th to 27th July, 2018
- iii. Twelve Engineers from Bhutan Power Corporation Ltd. underwent 9 Days Hands on Training on 'Energy Audit and Smart Grid Technology' at School of Electrical Engineering, KIIT from 1-9 October 2018
- iv. Short term Industrial Training Programme on "Heating Ventilation and Air Conditioning" for the Engineers from Bhutan Power Corporation Limited was organised from 9-13 December, 2019.
- v. Training Needs Assessment was conducted from 18-22nd August, 2019 at

Jigme Dorji Wangchuk National Referral Hospital, Thimphu Bhutan



Various programmes under Bhutan MOU

g) United Nations Development Program

Kalinga Institute of Social Sciences (KISS) and United Nations Development Programme (UNDP) have joined hands to extend the benefits of skill development to tribal youths living in the backward districts of Odisha. The two organizations signed a memorandum of understanding (MoU) in New Delhi on March 30, 2017 to establish a Centre for Excellence to demonstrate technology-enabled blended skill training model for tribal youth.

Currently the Skill development Programs are being imparted jointly by the faculty members from KIIT and KISS with practical resources from both these sister organizations.

h) Kalinga Fellowship:

The Kalinga Fellowship is an initiative bringing together eminent leaders from business, Government, academia and civil society to engage in deliberations and contemplations on issues

and policies to combat trafficking of women and children. Initiated by three partner organisations, The Bridge Institute, Ashoka and the Kalinga Institute of Social Sciences, the first fellowship was organized in April 2017 in Odisha, India. Thereafter, a 10-year commitment was formed in an MOU (in 2017) to implement the nine strategic action plans framed during the first fellowship and create similar programs to establish zero tolerance of sexual assault on women and children across Asia.

Kalinga Institute of Industrial Technology, Deemed to be University, the sister organization of KISS works in close association with it through its staff members and students to make the strategic plans a success. Different awareness programs conducted by the KIIT students through its student societies under the joint mentorship of faculty members of KIIT and KISS on the human rights, Government policies, anti trafficking laws and help-lines along with the

Kanyakiran Program is expected to make this initiative successful in the near future.

i) Collaboration with Corporate

The University has MOUs with 66 Corporate. 24 Centres of Excellence have been established in the University, working on several SDGs. List of Corporate working with the University are provided as **Appendix II**. List of Centres of excellence attached as **Appendix III**.

j) Enactus

'ENACTUS' is an innovative initiative by students of KIIT to improve the quality of life in society.

- i. Under the initiative, Project SIDDHI was undertaken, which provided opportunity to the oppressed communities like transgender in and around Bhubaneswar to change their lives for the better and, in the process, also try to eliminate the use of plastic bags by replacing it with

handmade paper bags. The transgenders were trained in making newspaper bags and were successful in receiving a number of orders also.

- ii. After successful collaboration with the transgender, ENACTUS worked with a voluntary organization, Aaina. The students worked with the disabled women to make them self-sufficient. The disabled women worked on an order of 5000 newspaper bags from Urban Micro and started making crafty bags with designs like gift bags from handmade paper.
- iii. Foundation Daya, which is an organization working for women from backward areas, started working with ENACTUS. They prepared an order for "Delight Bakeries" of 14000 brown paper bags with customized print. Simultaneously, the students signed a deal with the founder of "Biggies, Burger n

more” for an order of 20000 brown paper bags with customized print.

- iv. Likewise, Niyatee Foundation, having 1200 Self Help Groups, collaborated with ENACTUS. With such a large manpower, Niyatee is capable of producing at least 1500 bags per day.



Team Enactus

- v. Udyog Foundation produces 500 bags per day. Both these organisations worked on the Biggies order. ENACTUS considered bagging orders an important step in

convincing people to give up plastic bags and replacing it with paper bags.

- vi. ENWIPE, a project introduced by KISS-KIIT, is a unique concept of water-less car wash service at customer’s doorstep. ENACTUS promoted a special eco-friendly solution for cleaning the vehicles, adding only 500ml of water to 5ml of the solution. The main aim of Project Enwipe is to use minimal amount of water and provide employment opportunities to under privileged and physically challenged (hearing and speech impaired) individuals, simultaneously helping them earn and live as equal contributors in society.

k) Membership of International Bodies

The University is a prominent member of international organizations like International Association of Universities (IAU), Association of Indian Universities (AIU), Association of Commonwealth Universities (ACU), University

Mobility of Asia and the Pacific (UMAP), International Association of University Presidents (IAUP), Association of Universities of Asia and the Pacific (AUAP), International Institute of Education (IIE), New York, United Nations Academic Impact (UNAI) and Eurasian Silk Road Universities Consortium (ESRUC)

l) Relation with different embassies

The University had also indulged in dialogues with different embassies and embassy representatives to motivate students for higher studies, a step towards attaining & fulfilling sustainable development goal on Quality Education. The University has tie ups with foreign government and embassies to provide quality education to students from other countries with attractive scholarship schemes.

m) Programmes in collaboration with other institutions and NGOs

- i. Kanya Kiran Programme: 'Kanya Kiran', the massive awareness programme to stop

violence against women and girl child is organised every year across the 30 districts of Odisha. The third edition of Kanya Kiran was organised from 10th to 12th June, 2019.



Kanya Kiran 3.0

Various other programmes are carried out for empowerment of women etc under the kanya kiran banner , round the year.

- Awareness programmes on cyber bullying and cyber crimes were organised in all districts of the state of Odisha, India to educate the public on these issues.



Awareness on cyber crimes

- Awareness programme was organised in Bugin Ha, Godibari Village and the children were made aware about the "Good and Bad Touch", and made to understand the difference between "care"&"harassment".



Good Touch , Bad Touch Awareness programme

- ii. Art of Giving (AoG): International Art of Giving Day is celebrated all over India and 120 countries across the globe spreading over 20000 centers based on the theme 'Bag of Happiness'/ 'Pyar Bhara Paack'. The concept for the year 2019 was "People's Contribution, People's Participation" to achieve the motto of 'education for all'. AoG was celebrated in Afghanistan, Austria, Bhutan, Bolivia, Botswana, Brunei, Canada, Columbia, Costa Rica, Denmark, Gambia, Ghana, Greece, Guinea, Guinea Bissau, Oman,

Sweden, Uganda, Bahrain, Ethiopia, Ireland, Kyrgyzstan, Mongolia, Nigeria, Pakistan, Russia, Saudi Arabia, Singapore, South Africa, South Korea, Syria, Turkey, among other countries.



Art of Giving in a Orphanage

- iii. KIIT in collaboration with KISS, UNESCO MGIEP and Life University had conducted a 3-day intensive workshop on Compassionate Integrity Training, which was being held from December 14-16, 2019.



Workshops on Compassionate Integrity Training

iv. Distribution of relief materials to Fani affected regions of the state of Odisha in collaboration with KISS.



Flagging off of vehicles with relief materials

v. The University extended its medical and technical support by sending 25 member medical team and 75 skilled workers to Kerala on 22nd August, 2018 to render medical services to flood affected people.



Team of skilled workers sent to Kerala



Team of Doctors sent to Kerala with Prof. Achyuta Samanta, Founder, KIIT & KIMS

4 Impact:

Initiatives	Children/students/people motivated and benefited
SDGs in curriculum	25000+ students benefited
Organisation of Cross Sectoral dialogues	15000+ participants motivated
Establishment of Centres of Excellence in collaboration with industry to facilitate the work on SDGs	20000+ students and 1800+ faculty benefited
Dedicated SDG centre	1.5 lakh people benefited
Offering Skill development programmes	5000+ students benefited
Kanya Kiran Programme	30000+ people motivated
Art of Giving	2 lakhs+ benefited
Compassionate Integrity Training	300+ people motivated
Capacity building programme	1000+
Mentoring under paramarsh scheme	11 colleges and 1 university

Appendix-I: List of skill development programme carried out:

Name of the Project	Name of the Client/ Sponsoring Agency	participants
Suryamitra Skill development prg.	NISE, Ministry of New & Renewable Energy, Govt of India	90
Barefoot Training (BFT)	State Institute of Rural Development, & Panchayati Raj & Drinking Water Department, Govt. of Odisha	140
DDU-GKY Training Programme	ORMAS & MORD, GOI.	3600
CRR Training Programme	Department of Public Enterprises, Ministry of Heavy Industries & Public Enterprises, Govt. of India	865
2 years Industrial Training	Mahanadi Coal Fields Limited, Burla	201
Schooling & Skilling Programme	Mahanadi Coal Fields Limited, Burla	324
Industrial training	Rourkela Steel Plant	54
Industrial training	NALCO	09
Industrial training	HINDALCO, Hirakud,	50
Skill Development Training Programme	OSFDC Ltd., SC & ST Dept., Government of Odisha	370
leadership & personality development	Ministry of Education, Royal Govt. of Bhutan	03
Training on Cable Jointing for BPCL	Bhutan Power Corporation limited, Bhutan	10
Training on Energy Audit for BPCL	Bhutan Power Corporation limited, Bhutan	12
Transactional Analysis for Org. effectiveness	NALCO, Bhubaneswar	25
Emotional Intelligence & Transactional Analysis for Org. effectiveness	Aditya Birla, Rayagada	30

Appendix-II: MOUs with Corporate:

1. MDH Spices
2. BG BAU
3. Global Archer Consultancy LLP
4. Hindalco Industries Ltd.
5. J.S. Renewable
6. M/s. Ener Vision
7. Mercedes Benz India Private Limited
8. Nano Aviation India Pvt. Ltd
9. RSB Transmission(I)ltd.
10. Affine Analytics Pvt. Ltd
11. BPCL
12. Elita sports India Pvt. Ltd.
13. Glass Academy Foundation
14. Global Organisation People of Indian Origin, Malaysia
(Gopio Malaysia)
15. Lifeintellect Consultancy Pvt. Ltd.
16. Manya education pvt ltd
17. My Perfectice
18. Schneider Electric India Pvt. Ltd.
19. Tata Consultancy Services Limited
20. The United Nations Development Programme (UNDP)
21. Alternative Global Consulting
22. Bionivid Technology Pvt Ltd
23. Central Tool Room & Training Centre
24. Godrej Consumers Products Ltd
25. M/s Simplex India
26. M/s. Power Research & Development Consultants
Pvt. Ltd
27. National Innovation Foundation
28. National Instruments
29. Regional Centre for Biotechnology
30. Renault Samsung Motors Co Ltd
31. Siemens Limited
32. SKF India Limited
33. Ericsson
34. Mayo Clinic
35. NI SYSTEMS (INDIA) PVT. LTD.
36. Centre for Internet Society
37. Cosboard Industries Ltd.
38. OCL India Limited
39. Quick Smart Wash Pvt. Ltd.
40. Global Education Revolution Activists
41. IBM, Bangalore

42. The Institution of Civil Engineers (India)
43. Hello Doctor 24x7 Health-care Pvt Ltd
44. LV Prasad Eye Institute, Bhubaneswar
45. M/s Ae Telelink Systems Ltd
46. M/s Copper Connections
47. NMDC Limited
48. ORBIS Institute, US
49. Cataktz Science & Technology Solutions, Bangalore
50. Edexcel Ltd, UK
51. Printech Offset Pvt Ltd
52. UNICEF, Orissa
53. Aries Agro Limited
54. Blood Orange Media
55. Dassault Systems India Pvt Ltd
56. HDFC Bank
57. Tata Steel limited
58. Yi (Young Indians)
59. DHI (India) Water & Environment (P) Ltd.
60. M/S Maize International Co LLC
61. ICICI Bank
62. WIPRO Technologies
63. Enterprise System Solutions (p) Ltd., (ESSPL)
Communication centre Building, Info City
Bhubaneswar
64. Red Hat India Pvt. Ltd.
65. Maples ESM Technologies Ltd. Chennai
66. Indian Institute of Human Rights, New Delhi

Appendix III: Centres of Excellence established and working on SDGs:

1. Center of Excellence for Sustainability and Equity
 - a) Working towards awareness of different SDGs, collaboration with National, International Government, NGOs and corporate to frame policies and decide on plan of action to meet the goals.
 - b) Relevant SDG: SDG17

2. IBM Center of Excellence
 - a) Working towards development of software solutions related to student projects, and conducting training programs for students of the region for providing hands on trainings related to coding required in the IT industry thereby augmenting their employability.
 - b) Relevant SDG: SDG 4, 10

3. SAP Center of Excellence
 - a) Automation of University tasks , collection and analysis of data related to Finance , material management, human resource and student lifecycle as a part of University innovation; providing training on Business Integration and ABAP (open to all) to create awareness and impart skills on automations performed through SAP. This is again expected to augment the employability skills of the participants leading to reduced inequality.
 - b) Relevant SDG: SDG 4,9,10

4. IoT Center of Excellence
 - a) Application of IoT in integration of data and services that will lead to sustainable cities and infrastructure development; training provided to students (open to all) impart basic fundamentals of IoT with capstone projects
 - b) Relevant SDG: SDG 4,11

5. NI Center of Excellence
 - a) Training to students on the basic and advanced knowledge of National Instruments' LabVIEW software and peripheral systems to carry out quality projects in cutting edge areas in industry.
 - b) Relevant SDG: SDG 4

6. Interdisciplinary Center of Energy with special reference to Renewable Energy
 - a) Projects and research associated with solar energy, thin film photo-voltaics, and wind energy are being conducted.
 - b) Relevant SDG: SDG 7

7. Tech Mahindra Design Laboratory
 - a) Advanced training on automobile technology and projects for students and researchers.
 - b) Relevant SDG: SDG 4

8. Center of Excellence for Space Science
 - a) Working on Geographical Information Systems with the help of space technology to identify issues in farmlands and undertake suitable endeavors. This is oriented to help the agricultural sector leading to economic growth and decent life for related stakeholders.
 - b) Relevant SDG: SDG 8

9. MSME Center of Excellence
 - a) Promotion of entrepreneurship and supporting entrepreneurial endeavors. This is aimed for creation of more employments and decent life for the stakeholders.
 - b) Relevant SDG: SDG 8

10. Siemens Laboratory

- a) The objective of this Center of Excellence is to impart project based training of PLM software tools for cutting edge technology enabled students.
- b) Relevant SDG: SDG 4

11. Interdisciplinary Research Center in Materials and Nano-Sciences

- a) Advanced research in the domain of materials and nano-sciences are being carried out.
- b) Relevant SDG: SDG 9

12. TBI-NIDHI Center of Excellence

- a) It is acting as a local monitoring committee for consideration of proposals, monitoring the progress and taking appropriate decisions on continuation of funding support to the projects.
- b) Relevant SDG: SDG 9

13. Center of Excellence in Translational Research Program on Gastrointestinal bacteria pathogens

- a) Advanced Research Program on Gastrointestinal bacteria pathogens.
- b) Relevant SDG: SDG 3

14. Schneider Lab

- a) Focuses on automation system and smart energy management. This lab also gives a platform to have hands on experiences on emerging technologies and build skills of real world among students and researchers.
- b) Relevant SDG: SDG 4, 9

15. Center of Excellence of Water

- a) Studies Gathering, measuring and analyzing data on availability of clean water and sanitation; advanced research on providing clean water at affordable cost from naturally available resources.
- b) Relevant SDG: SDG 6

16. Center of Excellence for Rare Earth Materials

- a) Advanced research on the properties of rare earth materials available particularly in the state of Odisha, study of their characteristics and their potential use in industrial applications.
- b) Relevant SDG: SDG 4,9

17. Center of Excellence for Automotive Mechatronics

- a) Provides advanced diploma in advanced mechatronics creating skilled technicians for the automobile industry.
- b) Relevant SDG: SDG 4,10

18. Center of Excellence in Occupational Safety and Health

- a) Established in association with BG-BAU Germany, BG-ETEM Germany and Indo-German Focal Point India, this center is working towards safety and generation of health awareness for the laborers working in organized and unorganized sector.
- b) Relevant SDG: SDG 3

19. KIIT-DU –Acer Center of Excellence

- a) Projects, automation and software based research and solutions around artificial intelligence and virtual reality are being carried out.
- b) Relevant SDG: SDG 9

20. Boeing Center

- a) Capacity Building for University students, faculty and early stage startups to transform plans into practical and possible business ventures with the capability to take the Indian aerospace and defense to the next level and help scale greater heights in future.
- b) Relevant SDG: SDG 9

21. Bosch Center of Excellence

- a) Advanced research on robotics and automation of jobs are being carried out.
- b) Relevant SDG: SDG 4,11

22. Technology Enabling Center

- a) Capacity building for engineering/medicine & science students (of Odisha) to build innovative projects leading to new product & process development, IP & Tech transfer activities.
- b) Relevant SDG: SDG 4

23. Technology Transfer Office

- a) Building Capacity of East & Northeast regions bio-incubators and biotech institutions of India including AMTZ, Visakhapatnam on IP & Tech transfer activities.
- b) Relevant SDG: SDG 4

24. Fintech Center of Excellence

- a) Software solutions to automate and speed up financial transactions.
- b) Relevant SDG: SDG 8

Appendix-IV : International Guest Speaker List:

- Prof. (Dr.) Ernesto Kahan, Sr. Vice-President, World Academy of Arts & Culture (WAAC), U.S.A. & Former Vice President, IPPNW (Nobel Peace Prize winner – 1985)
- Dr. Bertrand de Hartingh, Counsellor for Cooperation and Cultural Affairs and Country Director of Institute Français, New Delhi
- Mr. Theresa Johansson, Director, Global Education, International Affairs Officers, Virginia Tech, USA
- Mr. Gene Ball, Director, International Finance and Administration, CIRED, USA
- Mrs Emilia Cartier, University and Scientific Head, North India, French Institute in India,
- Mrs. Shaifali Jetli Sury, Advisor to The Counsellor For Cooperation & Cultural Affairs, Embassy Of France
- Mr.Tenzin, Section Officer, SMG, SMD, Bhutan Power Corporation,
- Mr.Pema Jampel, Technician I, SMG, SMD, Bhutan Power Corporation,
- Mr. Thukten Tshering, Technician III, SMG, SMD, Bhutan Power Corporation,
- Mr. Kuenzang Yoezer, Technician I, SMG, SMD, Bhutan Power Corporation,
- Mr.Narad Moni Chapagai, Technician II, Yurmoo Substation, SMD, Bhutan Power Corporation,
- Mr. Namgay Dorji, Technician II, SMG, SMD, Bhutan Power Corporation,
- Mr. Dhan Bir Rai, Asst. Technician I, Malbase Substation, SMD, Bhutan Power Corporation,
- Mr. Bidur Kumar Limbu,S.B.O IV, Damdum Substation, SMD, Bhutan Power Corporation,

- Mr. Sangay Penjor, Section Officer, Nganglam Substation, SMD, Bhutan Power Corporation,
- Mr. Ten Dorji, Section Officer, Kilikhar Substation, SMD, Bhutan Power Corporation,
- Ms. Asuka Tsuzuki, Hon'ble President, Japan University of Economics
- Ms. Cynthia Hellen, Founder & CEO, SMPLCT Lab
- His Excellency Mr. Ariel Andrade Galindo, Ambassador of the Republic of El Salvador to India
- His Excellency Mr. Sergio Dario Arispe Barrientos, Ambassador of Bolivia to India
- Mr. Juan Jose Cortez Rojas, Counsellor, Embassy of the Plurinational State of Bolivia in India
- Prof. Duncan Botting, Managing Director, Global Smart Transformation Ltd. Scotland, United Kingdom
- Dr. Deepa Prasad, Programme Coordinator, United Nations Population Fund (UNFPA)
- Mr. Jeet Salal, Founder, Fitness Trainer and Marketing Manager, Jeet Selal Aesthetics, Himalayan Stallion brand, Melbourne, Australia
- Mr. Bhavesh Mahida, Director, Jeet Selal Aesthetics, Himalayan Stallion brand, Melbourne, Australia
- Ms. Rangapriya Goutham, Deputy Director, Virginia Tech, Center for Advanced Research and Education, India
- Shri Satya S Tripathi, Asst Secretary-General and Head of New York Office of UNEP
- Prof. Wann-Yih Wu, Vice-Chancellor and Dean of the Institute of International and Cross-Strait Affairs & Chair Professor, Department of Business Administration, Nanhua University, Taiwan

- Prof. Szu Ting Wang, Associate Professor, Department of International Affairs and Business, Nanhua University, Taiwan
- Mr. Guru Ghosh, Vice President, Outreach and International Affairs, Virginia Tech, United States
- Ms. Lesa L.Hanlin, Executive Director, Roanoke Regional Initiatives, Center for Organizational and Technological Advancement, Virginia Tech, USA
- Mr. Jane Swan, Director, Finance and Administration, Virginia Tech, USA
- Ms. Bonnie Zare, Associate Professor, Department of Sociology (Women's & Gender Studies), Virginia Tech, USA
- Prof. Saraju Mohanty, Professor, Department of Computer Science and Engineering, University of North Texas, USA
- Prof. Piotr Majdak, Polish-Japanese Academy of Information Technology in Warsaw, Poland
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- Mr. Anthony TS HO, Professor, Department of Multimedia Security, University of Surrey, UK
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- Dr. Carolyn Mc Milian, Researcher, Glasgow Caledonian University, United Kingdom

- Dr. Dorota Szelewa, Assistant Professor, School of Social Policy Social Work and Social Justice, University College Dublin
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- Mr. Mag.Cyril Dworsky, International Liaison Coordinator for “European Children’s Universites Network” (EUCU.NET), Vienna University, Austria
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- Mr. Sandro Santos, Coordination Advisor, Higher Technical Institute, University of Lisbon, Portugal
- Mr. Victor Arce, Professor, Department of Physiology, University of Santiago de Compostela, Spain
- Mrs. Maria Del Mar Lorenzo Moledo, Professor, Department of Theory of Education, History of Education and Social Pedagogy, University of Santiago de Compostela, Spain
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- Dr. Akiko Toyotoma, Assistant Professor, Department of Physical Chemistry of Colloid and Polymer, Graduate School of Pharmaceutical Sciences, Nagoya City University, Japan
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- Mrs. Kristina Eger, Project Officer, India Activities, Cooperation DGUV, BG BAU, Schwarzer Wuppertal, Germany
- Mrs. Eva Marie Hoffer, Head, International Social Law Division, German Social Accident Insurance (DGUV), Germany

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- Prof. (Dr.) Ulrike Lechner, Professor for Information Systems, Bundeswehr University Munich, Germany
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- Prof. (Dr.) Chen Desheng, Associate Professor, School of Foreign Languages from Wuhan Polytechnic University (State University), China
- Mr. Bishnu Prasad Biswal, Alexander von Humboldt Research Fellow, Dept. of Nano chemistry, Max-Planck-Institute for Solid State Research, Heisenbergstr, Germany
- Mr. Yang-Goo Lee, Chairman, Korean Small & Medium Enterprises Association in India & Former Managing Director of Hyundai Motors in India

- Mr. Namsook Yom, Director, Korea-India Culture & Economy Exchange Association & Mc-Kinley Pvt. Ltd.
- Ms. Book Hee Nam, Vice-Chairman, Human Global Business, Korea
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- Mr. Ali Abdulla Khalifa, Secretary General, ISA Award for Service to Humanity ,Ministry of Foreign Affairs, Kingdom of Bahrain
- Dr. Benjamin Levi Moses, Executive Director, Global Leadership Geneva-Bern, Switzerland
- Dr. Jessy Benjamin Levi, Director Operations - Global Leadership Geneva - Bern and Associate Dean - Geneva Institute for Leadership & Public Policy, Switzerland
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- Mr. Achini Perera, Counsellor, Sri Lankan High Commission in India, New Delhi

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- Ms. Janine Schooley, Senior Vice President, Project Concern International (PCI) California, USA
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- Prof. Terrence Perera, Professor, Department of Computer Simulation, Sheffield Hallam University, United Kingdom
- Mrs Om Naam Shook, President, Korea-India Culture Exchange Association & Asia Representative in charge, McKinley Holdings
- Prof. Christopher Charles Benninger, American-Indian Architect and Planner, Christopher Charles Benninger Architects Private Limited (CCBA) ,
- Dr. Maria Eugénias Sobernais, General Secretary, World Academy of Arts and Culture

- Dr. Jacob Isaac, Member, World Academy of Arts and Culture
- Dr. Maurus Young, President, World Congress of Poets
- Dr. Maria Eugenia Soberanis, Secretary General, World Congress of Poets
- Dr. Jacob Isaac, Member, World Academy of Arts and Culture
- Dr. Yu Hsi, Patron, World Congress of Poets and President, World Academy of Arts and Culture
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- Dr. Sastry Y Kandukuri, Senior Principal Specialist & Global AM Lead at DNV GL, Singapore
- Dr. Wayne Chen, Managing Director, -Asia Pacific Operations, Dynamic Systems Inc, USA
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- Prof. Michael Nelles, Professor, Waste Management and Material Flow, Faculty of Agricultural and Environmental Sciences, University of Rostock, Germany
- Prof. Francesco Di Maria, Department of Industrial Engineering, University of Perugia, Italy
- Prof. Agamuthu Pariatamby, Professor, Institute of Biological Sciences, Faculty of Science, University of Malaya, Malaysia
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- Prof. Hari Mohan Upadhyaya, London South Bank University, UK
- Prof. Dang Van Hung, University of Engineering and Technology, Vietnam
- Prof.(Dr.) Dale Miller, Director of Research, INRIA Saclay & LIX, Ecole Polytechnique Palaiseau, France
- Prof.(Dr.) Adegboyega Ojo, Senior Research Fellow and the E-Government Group Leader (under the Linked Data Strand), the Insight Centre for Data Analytics, National University of Ireland, Galway.
- Prof.(Dr.) Nobuko Yoshida, Faculty of Engineering, Department of Computing, Imperial College London
- Prof.Gunter Fahrnberger, University of Hagen, Germany
- Prof. Dr.-Ing. Christian Erfurth, University of Applied Sciences, Jena
- Prof.Gerald Eichler, Professor, Deutsche Telekom AG, Laboratories, Innovation Development, Darmstadt, Germany
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- Mr. Christopher Kunal Anand, , MC Master University, Canada
- Mr. Wolfgang Halang, Retd Professor, Faculty of Mathmatics and Computer Science, FernUniversitaet in Hagen, Germany

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- His Excellency Dr. Riad Abbas, Ambassador of Syrian
- Mr. Malusi Mpumlwana, anti-apartheid Black Consciousness Movement Activist, South Africa
- Prof. Asha Rao, Associate Dean, Mathematical Sciences, School of Science, RMIT University, Melbourne, Australia
- Ms. Morag Myerscough, prolific Graphic Designer
- Dr. Biswajit Sarkar, Associate Professor, Department of Industrial Engineering, Yonsei University, South Korea.
- Prof. (Dr).M.S Acharyulu, Dean, School of Law School, Bennett University
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- Mr. Ananta Raj Ghimire, Program Director, Uniglobe College, Pokhara University, Nepal
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- Ms. Carla Meier, Heidelberg University, Germany
- Professor Akira Kawaguchi, Faculty of Policy Studies, Doshisha University, Japan
- Dr. Achintya Bezbaruah, Gehrts Presidential Professor, Civil & Environmental Engineering Department, North Dakota State University, USA.

Appendix V: List of projects in collaboration with various government agencies :

Various Research Work on Social Sciences are ongoing on various SDGs:

- SDG 10: Reduced inequalities: Projects in collaboration with Indian Council of Social Science Research (ICSSR)
 - Literacy in Promoting Empowerment among the Tribal Woman: A Case Study of Odisha
 - Response to the Offence of Rape by the Criminal Justice System-An Empirical Study in the State of Odisha, Jharkhand and West Bengal
 - Revitalization of Indigenous Languages: Issue and Challenges
 - The Root Cause of Maoist Extremism and Development Challenges, A Study of Odisha
 - Strengthening Societal Roles in Developing and Implementing an Effective Alcohol Policy in India.

- SDG 3: Good Health Well being: Projects in collaboration with Indian Council of Social Science Research (ICSSR)
 - Service Quality Dimensions :-An Assessment of Government Sponsored Social Programmes
 - Exploring The Limitation of Medical Negligence Law with Special Reference to Odisha.
 - Socio-Economic and Health Interventions for the Greying Population: An Impact Assessment in the State of Odisha.
 - Research on Rheumatoid Arthritis with title 'Identifying Mitochondrial Dysfunction as the regulatory mechanism in progress of Rheumatoid Arthritis and the associated therapeutic opportunities in the Indian case control cohort' in collaboration with SERB

- Research on diseases like cancer, tuberculosis are being carried out in collaboration with government agencies like Board of Research in Nuclear Sciences (BRNS), Science and Engineering Research Board (SERB)
 - a) Development & Characterization of microtumor spheroids for evaluating radiopharmaceuticals
 - b) Development of a potent anti-cervical cancer drug using bioactive small molecule quinacrine Nanoparticle
 - c) Deciphering the Effects of Radiopharmaceuticals on Epigenetic Profile of Colon Cancer”
 - d) Effect of lipoic acid on ionizing radiation-induced TGF beta signaling in breast cancer cells
 - e) Effect of Micro RNA-214 in Modulating Chemo Resistance/Sensitivity in Cervical Cancer
 - f) Quinacrine and Silver based hybrid nanoparticle caused apoptosis in Oral cancer stem cells by inhibiting induction of base excision repair pathway
 - g) Role of Estrogen-related receptor α (ERR α) in epithelial mesenchymal transition and metastasis of breast cancer
 - h) Olaparib (AZD2281) a PARP inhibitor and curcumin synergistically induces apoptosis in oral cancer stem cells by inhibiting the DNA repair cascade
 - i) Validation of anti-cancer activity of Phytochemicals from traditional herbal healing practices
 - j) Analysis of CART Cell therapy as a living drug for the treatment of hematologic cancer
 - k) Multipronged Approach for Clinical Assessment of Novel Curcumin Formulations as Drugs for breast cancer therapy
 - l) Study on estrogen receptor alpha (ER- α) in breast cancer patients with reference to local population

SDG 11: Sustainable Cities and Communities:

- Social determiners of water Inequity:-A systematic investigation at Bhubaneswar.
- Natural Disaster and Vulnerability: An Empirical Study in Drought Prone Region of Western Odisha.
- An Assessment of Central and State Water Laws Address Water Management Problems of Mid-sized Cities:
A Case Study at Bhubaneswar.
- Intervention of Use of Technology in Government Sponsored ICDS

SDG8: Decent work and Economic Growth

- Impact of Dynamic Capability on Success of Entrepreneurs: A Study of Small and Medium Manufacturers in Odisha.
- Service Quality Dimensions :-An Assessment of Government Sponsored Social Programmes

SDG 6: Clear water & Sanitation: Project on Sanitation

- i. Toilet Stories from a Coastal Village of Odisha:-A Participatory Study of Sanitation and Social Change in collaboration with Mahatma Gandhi National Council of Rural Education:
- ii. Relationship between household sanitation and woman's experience of menstrual hygiene under Swachha Bharat Mission (Clean India Mission) in Odisha, in collaboration with ICSSR.