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KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY (KIIT)

Deemed to be University U/S 3 of the UGC Act, 1956

Sustainability Report 2020

Introduction

Kalinga Institute of Industrial Technology (KIIT) Deemed to be University, Bhubaneswar has evolved into a multi-disciplinary Institution, respected worldwide for its culture of educational excellence. More than 24,000 students from all states of the country and from over 50 countries have enrolled for graduate, post-graduate, doctoral, and post-doctoral studies in a wide range of disciplines. KIIT integrates education with human values through a clearly laid policy to ensure equity and inclusion. The excellent academic ambience, quality faculty, adherence to strict academic rigor, and plethora of other academic activities led to the grant of Deemed University status under Section 3 of UGC Act 1956 to the institute by the Ministry of HRD, Govt. of India in 2004, within just six years of its inception. More recently, in 2014, MHRD conferred Category 'A' status and NBA of AICTE accredited it in Tier 1 (Washington Accord), placing KIIT among the most elite Universities of the country.

KIIT University's cosmopolitan campus is proud to have students from all corners of India and over 50 countries. The constituent schools contiguously located in impeccably landscaped and modern-technology-enabled campuses, offering graduate, post-graduate, doctoral and post-doctoral programmes in a wide range of disciplines encompassing engineering and technology, biotechnology, applied sciences, computing, architecture, management, law, commerce and economics, medical and health sciences, humanities and social sciences. The University has taken steps to provide impetus to research and development activity – both by faculty and the students. More than 100 R&D projects are currently underway supported by several national and international agencies. Similarly, students' projects have won high appreciation at all levels.

The University has been drawing academics and scholars from around the world. It has alliance with around 300 globally reputed institutions in India and abroad, corporate organizations, and research centers. The University also has membership in many national and international educational associations and bodies like International Association of Universities (IAU), Association of Indian Universities (AIU), Association of Commonwealth Universities (ACU), University Mobility of Asia and the Pacific (UMAP), Eurasian Silk Road Universities Consortium (ESRUC), United Nations Academic Impact (UNAI), etc.

Vision

To create advanced centers of professional learning of international standing where pursuit of knowledge and excellence shall reign supreme, unfettered by the barriers of nationality, language, cultural plurality and religion.

Mission

i. To impart quality professional education of international standard and imbibe skill for solving real life problems

ii. To inculcate national/global perspective in attitude

iii. To create leadership qualities with futuristic vision

iv. To foster spirit of entrepreneurship, and realization of societal responsibilities

v. To cultivate adaptation of ethics, morality and healthy practices in professional life

vi. To instill habit of continual learning

vii. To bring about total personality development and create conscientious and responsible world citizens

viii. To encourage and support creative abilities and research temperament

ix. To establish and promote close interaction with industry and other utility sectors and keep abreast with state-of-the-art technology.

Quality Policy

KIIT University is committed to imparting Quality Education and skill sets based on Ethical practices and develop students into responsible Citizens and Excellent Professionals for attaining personal, organizational and social goals. The University's Management shall regularly monitor and review its performance and strive for continuous improvement and adaptation by implementing a Quality Management System.

Quality and Excellence

The University perceives quality and excellence in two fronts: Academic and Administrative. In the academic front, priority has always been to provide the best resources as well as regular updating of syllabi. Laboratory resources are constantly upgraded along with its equipment to keep abreast of the latest research. An intellectually stimulating environment in terms of space is provided to the academic community. Quality improvement programmes of faculty are encouraged - all faculty members attend Faculty Development Programme (FDP) and other staff development initiatives. In the administrative front, modern practices of e-governance, automation are being pursued. KIIT has strong initiatives in e-governance, though pursued as disjoint entities in student admissions, examinations and pay-roll. The Technology Business Incubator (TBI) has been

established with the view to serve as an Incubator for potential entrepreneurs. It serves as a focal point for entrepreneur development, patent support, etc.

Major achievement(s) during the past years:

i. Institution of Eminence tag by Ministry of Human Resources Development, Government of India in 2019.

ii. Conferred Category 'A' status by Ministry of Human Resources Development, Government of India in 2014.

iii. Accredited by NAAC, India with CGPA 3.48/4.

iv. Undergraduate Engineering programmes accredited by the Institution of Engineering & Technology, UK and by National Board of Accreditation under Washington Accord.

v. Ranked 1001+ in Times Higher Education World University Ranking 2021.

vi. Conferred with the 13th Quality Council of India 2020 - DL Shah Quality Silver Award for implementation of SAP in the University.

vii. Awarded with the Utkrisht Sansthan Vishwakarma Award-2020 for post COVID-19 redevelopment / rehabilitation plan.

viii. Awarded Workplace of the year Award 2020 by Times Higher Education, for its unstinting commitment to its staff and students.

ix. Ranked 24th among Universities in India in NIRF ranking 2020.

Awards

Appendices:

Content

Kalinga Institute of Industrial Technology

COVID 19 Pandemic, its Impact and Activities by KIIT

What began with just a single patient in Wuhan, China, suffering from the viral pneumonia of unknown origin, in December 2019, soon transformed into a worldwide pandemic, with WHO officially declaring the discovery of novel coronavirus: SARS-Cov2 in January 2020. The name COVID-19 was derived from the year it absolutely was initially detected (2019) and victimization letters from CO-rona-VI-rus D-isease. The pandemic, within weeks led to the unprecedented health and socioeconomic crisis. As of December31, 2020, there had been 82 million confirmed cases worldwide.

The Pandemic spread through India in early March 2020 leading to a nationwide lockdown shortly after the middle of the month of March 2020. Treatment and attending to the COVID -19 patients posed the most difficult health challenge in this decade owing to the unknown issues related to the virus and not so sure treatment protocols and guidelines. Also the sudden surge of cases posed another challenge in getting the patients admitted with proper facilities and experienced medical personnel. KIIT played a pivotal role during these times, going to different extents in diverse matters to help the nation recover from these difficult times.

Online classes and examinations conducted through the integration of different virtual and online platforms like Zoom, Google Meet, Cisco Webex, Gsuite, Quizziz, MyPerfectice, SAP and Moodle. KIIT is the first University in the country to shift to online mode of delivery for delivery of all academic programs adhering to the academic calendar even during the times of the pandemic.

The University also launched massive health care and community services during the COVID-19 Pandemic in the State of Odisha, India.

A summary of the major initiatives is provided below:

- Establishment of 4 specialized COVID-19 hospitals with total bed number of 1050 in the City of Bhubaneswar and in the districts of Balangir, Mayurbhanj and Kandhamal along with quarantine center and isolation facilities. The COVID specialty hospital at Kalinga Institute of Medical Sciences (KIMS, the medical unit our University) is the first stand alone COVID hospital in the country. These hospitals provide free of cost treatment to the COVID affected, with support from the Odisha Mining Corporation and Government of Odisha. 15,000+ COVID patients have been successfully treated and discharged from the COVID -19 hospitals.

- The dedicated COVID Hospital managed by Kalinga Institute of Medical Sciences (KIMS) has treated numerous Covid-19 patients so far during the present pandemic. Most of these patients do come for routine check-up after discharge. Some of these patients persist to have weakness, general fatigue, breathlessness, body pain and joint pain even after a few months of discharge. Most of these patients are elderly and have residual lung and kidney injury and inflammation lasting for a long time. KIMS Hospital has opened a specialty clinic in its Out Patient Department (OPD) complex to cater to such patients suffering from post-COVID syndrome. Senior specialists of Internal Medicine and Respiratory Medicine are attending to these patients on all working days. Patients having lungs or kidney injury are being investigated and, if required, are also referred to Rheumatologist, Cardiologist, Neurologist or Psychiatrist. This specialty clinic is of immense help to those who have been discharged from COVID Hospital, but are developing symptoms even after getting some treatment and have associated diseases like diabetes, high blood pressure and heart diseases.

- About 150 COVID positive pregnant mothers were hospitalized during the COVID-19 Pandemic and delivered their new-borns by normal delivery as well as cesarean section. About 25% of those discharged are likely to have prolonged weakness, fatigue, breathlessness, cough, fever or other symptoms. To facilitate their health check up, KIMS Hospital has started a 'Post-COVID Mother & Child Clinic'. This clinic is having a senior obstetrician and pediatrician who will look after the mother and child together and render advice. All types of tests, imaging are available in the campus and if advised the mother & child can be seen by a Cardiologist, Pathologist and Neurologist or Physicians.

- Kalinga Institute of Medical Sciences (KIMS), Bhubaneswar has been granted permission for conducting Phase III clinical trial of 'Covovax', a vaccine against COVID-19 being prepared at Serum Institute of India (SII), Pune in collaboration with the Vaccine Giants, Novovax, USA. KIMS has been selected as one of the 16 sites across India by ICMR-NARI(Pune).The parent vaccine by Novovax has cleared Phase I and II trials globally and has proven safe and efficacious. The Indian version of the vaccine has been manufactured by SII and is now ready for Phase III testing in India.

- The University has ensured all types of diagnostic facilities (including antigen and RT-PCR test) with approval from the Indian

Council of Medical Research. 12000+ tests have been conducted so far.

- The University has launched massive COVID awareness and prevention programs through its volunteers across the State maintaining all COVID -19 protocols. It is also building capacities of volunteers on vital aspects of COVID-19 in association with US consulate general, Hyderabad, India.

- Webinars on COVID-19 Awareness and Prevention, Impact on Live & Livelihood, Role of Nurses in management of COVID-19, Entrepreneur opportunities during and post COVID-19 etc have been conducted.

- The University has sanctioned 1 crore INR for counseling and awareness programmes (Approved by Board of Management in their 36th Meeting)

- Apart from this, the following initiatives have been undertaken across the state:

  a) Establishment of wellness clinics, COVID Care and Health Care Centers across the state.

  b) Telemedicine facilities in 10 districts of the state.

  c) Online healthcare consultancy and solutions.

  d) Tele-counseling Cell has been functioning to provide necessary support for stress management and emotional wellness (06747105371) to the different families affected by the pandemic.

  e) Periodic and need based counseling for staff members and students of the University during the pandemic through online mode.

  f) Awareness camps for the tribal and the poor.

  g) Personal Protective Equipment (PPE) kits have been distributed among 50,000+ health workers.

- The University will also be providing education free of cost to the children of the COVID-19 deceased in Odisha.

- To fight the war against the COVID-19 Pandemic, it has engaged in developing low cost solutions through different research programs:

  i. KIIT-Technology Business Incubator has been recognized as a Centre for Augmenting War with COVID-19 Health Crisis (CAWACH) under Department of Science and Technology

(DST), Government of India (Sanctioned amount: 56 Crores INR)

ii. SASACT scheme for accelerating start-ups around post COVID Technology opportunities approved by Ministry of Electronics and Information Technology, Government of India. (Sanctioned amount: 10 Crores INR)

iii. 65 Research Projects with budget outlay of about 25 crores were applied to various Government funding agencies like DST, ICCSR, DBT etc.

- Other activities carried out are:

  - Distribution of dry and essential food items, groceries, sanitizers, masks and sanitary napkins to 3 lakh + people and conducted COVID-19 rehabilitation activities in 4 districts of Odisha.

  - Distribution of sanitizers, masks, sanitary napkins and essential commodities have been distributed among 300,000+ people.

  - Distribution of educational kits and essential commodities to 30000+ poorest of the poor children in the state.

- Support to hospital in Jiranga, Odisha and provided Personal Protective Equipment (PPE) to the healthcare workers in the region.

- Old Age Homes in Jirang are being provided with essential food items and basic necessities along with masks and sanitizers.

- KIIT in collaboration with KISS, Sakha and Azim Premji Philanthropic Initiatives has distributed ration and essential items for the transgender community in Bhubaneswar, Rayagada and a few districts of Odisha.

- Awareness created among 500,000+ people in the state.

- Counseling to 30000+ people including students and staff members and stakeholders.

- To prevent any disruption in academic activities, classes by teachers through television channel (Kalinga TV) are being conducted across the state even in its remotest corners.

- KIIT in collaboration with its sister organization , Kalinga Institute of Social Sciences (KISS) is working closely with the American Embassy in the repatriation of American and Indian American personnel stuck in Odisha and other adjoining areas.

Old Age Homes in Jirang

Covid Hospital

SDG bus to transport relief material to far flung areas of Odisha

KIIT University has been taking major steps towards targets set by the UN for achieving 'Zero Poverty' as described below:

The University is also involved in facilitating education for tribal students through its association with the sister organization, Kalinga Institute of Social Sciences (KISS) and the KISS Foundation, with the voluntary engagement of its faculty members and senior students.

Several alumni of KISS hailing from indigenous and poverty stricken background have been brought to the mainstream of the society.

- Camps are organized in different districts of state of Odisha, India round the year to identify potential youths who are then further trained and made more employable. This year 2020, due to the COVID 19 pandemic, these camps were conducted online through the platforms like Zoom and WhatsApp. Counselors available with the University identified the aspirations and talents in particular areas, suggested domains of training to be imparted and provided online counseling. The trainings were imparted by experienced University staff members on the use of file handling, communication skills, business communication writing, basic accounting, ICT technology and Digital skills. They were also referred to the School of Advanced Skills for training in different schemes under Government initiatives. More than 5000 such candidates benefited.

- Online vocational training in candle making, diya making, preparing phenyl and incense sticks etc were also taught to make them self independent. 20000+ youth benefited.

- Special recruitment drives have been organized for the youths leading to economic stability in their families and alleviation of poverty in general.

- Special scholarship was established for the children of COVID deceased for pursuing technical and profession education at KIIT. 56 students have been given full fee waiver under this scheme. https://form.kiit.ac.in/special-covid-scholarship/

- Various other types of scholarships have been instituted by the University for encouraging the meritorious students. For staffs hailing from poor economic background, the University provided educational support and resources to their children to prevent any disruption in their education. Provision also exists for children of staff members to pursue higher education in the University with full or partial fee waiver. Total scholarship outlay amount for the year 2019-20 being 37 .7 crores INR.

- During the COVID-19 pandemic, there was prolong lockdowns and loss of livelihoods, KIIT conducted massive distribution of dry and essential food items, groceries, sanitizers, masks and sanitary napkins (3 lakh + people benefited) and educational kits and essential commodities (30000+ poorest of the poor children in the state benefited). KIIT in collaboration with KISS, Sakha and Azim Premji Philanthropic Initiatives also distributed ration and essential items for the transgender community in Bhubaneswar, Rayagada and a few other districts of Odisha.

- 'Oswal- KISS Residential School' established in Bolangir, Odisha in association with Oswal Group (http://www.oswalgroup.com/) was inaugurated in February 2020. Adani-KISS Tribal Residential School was also established at Bankishole, Baripada, Mayurbhanj, Odisha in January, 2020. These Schools are providing free holistic education from kindergarten to post graduation along with lodging, boarding, health care facilities besides vocational, life skills empowerment to the underprivileged tribal children of the district and adjoining areas.1500 students have already been

Oswal- KISS Residential School established in Bolangir

enrolled from standard I to XII in each school.

+ 7000 + first generation learners have been converted from below poverty line to mainstream tax payer status.

+ KIIT in collaboration with KISS Foundation has extended Helping Hand to

1. 4 Children of Anandpur in Kendujhar district of Odisha. These children have been living a miserable life in the absence of their parents for a few years and did not have any senior members in the family to look after them. They are now admitted to KISS for free education along with accommodation and Rs. 3000 per month to each to meet their day-to-day expenses.

2. Two hapless brothers of Telgabeda village under Jianga panchayat in Mathili block of Malkangiri district. They are now provided with free education along with accommodation at KISS and Rs. 2000 per month their day-to-day expenses.

3. Three siblings of Bhogibandha Village under Jarada Police station of Ganjam District. They are now admitted to KISS

for free education along with accommodation and Rs. 3000 per month to each to meet their day-to-day expenses.

4. The families of labourers who lost their lives in a road accident in Ganjam district. The children of the four accident victims were admitted in the district branches of KISS and jobs were provided for one member of the other two families.

5. Three orphan children of Sundarpur village under Chhatrapur Block of Ganjam district. The children were allowed to pursue their education in any branch of KISS along with a monthly allowance of five thousand rupees.

6. Two differently abled girls Jyotsna Majhi of Daringbadi (Kandhamal) and Laxmi Patra of Sonepur. For their maintenance and routine expenses, five thousand rupees is being provided to each.

https://news.kiit.ac.in/kiss/kiss-foundation-extends-helping-hand-to-two-differently-abled-girls/

KIIT University has been taking major steps towards targets set by the UN towards achieving 'Zero Hunger' as described below:

- Masters programme (Business Administration) in Agribusiness Management is being offered in the University. Agribusiness includes all the activities that take place from the farm to the final consumers. It covers the agricultural inputs, production, processing, distribution logistics and marketing all the agricultural products. With liberalization and globalization, tremendous amount of opportunities have been created in this sector. The agribusiness sector in India today lacks the trained and skilled managerial professionals to manage the current challenges and take it to greater heights, with an aim to prepare qualified and well trained professionals to cater to various needs of the agribusiness sector. This course has direct relevance to agricultural input industry, food processing industry, retail industry, development sector, E-commerce, agricultural commodity trading center, agricultural warehousing sector and agricultural export houses. 50 students are pursuing this course. It is expected that the graduates of the course will

become responsible professionals contributing to the proper functioning of food commodity markets and their derivatives.

- Health care centers, medical camps and wellness clinics have been established in different districts of the state to spread medical awareness and provide treatments free of cost.

- Junior doctors and interns were involved in surveying the malnutrition issues among children and women particularly in villages, collect information and provide advice and treatment as required.

- Medicines were distributed to the ailing villagers, malnourished children and afflicted women in the district of Kandhamal as an initiative of the Kalinga Institute of Medical Sciences, hospital under KIIT.

- The community engagement center and the student society (under National Service Scheme) worked in close association with each other as a voluntary initiative to study social, economic, medical and cultural issues in different villages of the state , wherein malnutrition and food security issues are also covered. NSS volunteers were involved in distribution of food packets in orphanages and rural areas in different times of the year.

- Distribution of groceries to the people in the slum areas of Bhubaneswar and Cuttack thrice a week during the lockdown period due to the Corona Virus pandemic. These packets contained items like rice, pulses, cooking oil. Food and

essential items were also distributed in containment zones where people were not allowed to step out for days due to the risk of Corona Virus. Nearly, 300,000+ people benefited.

- Delivery of cooked food to police personnel on duty. Lunch was provided every day to more than 2000 police personnel across Bhubaneswar, Odisha's capital city and in adjoining cities of Puri and Cuttack during the COVID19 pandemic lockdown.

Delivery of cooked food to police personnel

♣ Distributed cooked meals to migrant labour from neighbour states (such as Bihar, West Bengal, Jharkhand) who were stuck in Odisha. Nearly 50000+ migrant worker benefited.

♣ Fruits, vegetables, biscuits and other food materials were also distributed to animals in and around the campus– such as monkeys, dogs, cattle during lockdown. Also adopted "People for Animals"- an NGO that takes care of 140 peacocks in

Bhubaneswar. Besides this, financial assistance was provided to more than 10 "Goshalas" in Puri, Bhubaneswar and Cuttack.
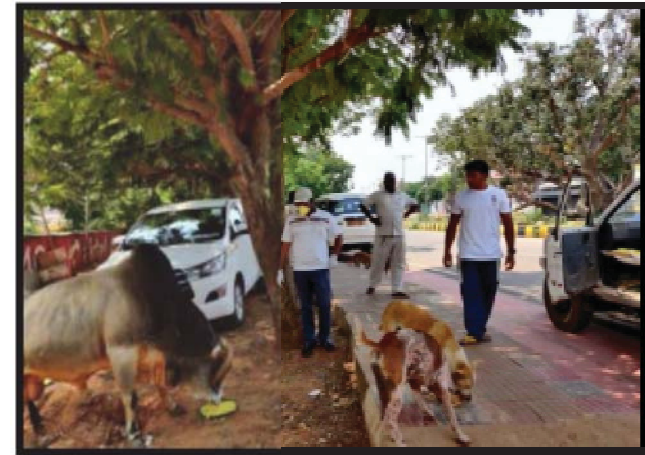
- Two old age homes in Chandragiri – a Tibetan settlement area in Eastern Odisha were adopted and provided one-month food item supplyduring pandemic. Nearly, 200+ Tibetan population benefited.

Old age Homes, Chandragiri

- Worked proactively with the Government of Odisha to provide support in the form of all its available resources – logistics, infrastructure, healthcare, human resources, food etc during the pandemic to the people of Odisha.

- Ration and essential items were also provided to Transgender Community in Bhubaneswar and Rayagada. Nearly 500+ transgender community people benefited.

- Extended a helping hand to the saints of Mahima Gadi Ashram at Joranda in Dhenkanal district by providing food supplies, including 10 quintals of rice, a quintal pulses, a quintal flattened rice, sugar, and cash of Rs. 1 lakh towards meeting their expenses for two months.

- Delivered food packets and essential services to the 30,000 tribal students of KISS University during the lockdown.

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- Members of KEURIG - THE FOOD SOCIETY of KSAC, KIIT-DU conducted a food distribution drive for the needy in their respective home towns on 16th October 2020, i.e., World Food Day. They distributed dry snacks such as biscuit packets, cake and juice, besides rice, dal and vegetables. Some members also gave cooked food in a few areas.

3 GOOD HEALTH AND WELL-BEING

The University is focused on providing and ecosystem for good health and well being for its staff , students and the community around and has taken major initiatives in this regard which are discussed in this chapter.

- Kalinga Institute of Medical Sciences (KIMS), the medical unit of the University is a 1750 bedded super-specialty hospital in the city of Bhubaneswar. All medical services and facilities are available 24x7.

- All students and staff members are covered under medical insurance and have got 24x7 access to all medical facilities of the KIMS.

The hospital

- **4 specialized COVID-19 hospitals with total bed capacity of 1050 have been established in the City of Bhubaneswar and in the districts of Balangir, Mayurbhanj and Kandhamal along with quarantine center and isolation facilities in collaboration with Odisha Government and**

Orissa Mining Corporation. 15,000+ patients were successfully treated.

COVID Hospital at Kandhamal

- The University has ensured all types of diagnostic facilities (including antigen and RT-PCR test) with approval from the Indian Council of Medical Research. 12000+ tests have been conducted so far.

- Specialty Clinic for patients suffering from post-COVID syndrome and specialized Post- COVID Mother & Child Clinic have been established.

- Wellness clinics, COVID Care and Health Care Centers have been established across the state.

- Telemedicine Facility and online healthcare consultancy with solutions was started in 10 districts of the State.

- Tele-counseling Cell has been functioning to provide necessary support for stress management and emotional wellness (06747105371) to the different families affected by the pandemic. Counseling cell has been set up to address the issues associated with stress felt by staff members and students if any.

- Medical clinics exist in different districts of the state providing free medical services and aids to the people of the region and is solely managed by KIMS, the medical unit of the University.

- Rural Health Centre with Tele-medicine Facility established in Kalarabanka in Odisha state of India provides health-care services to the people of the village and nearby villages. The Centre had been set up by KIMS. It has tele-medicine facilities which allows people of the area to avail expert consultation

from eminent doctors of the super-specialty hospital at their doorstep. It also regularly conducts health camps in the village. Local people have benefitted immensely due to health-care facility and awareness by the100-bedded primary health centre. Likewise, KIMS has made available latest and affordable medical facility through the tele-medicine centre in many parts of the state.

- Clinical Specialists at KIMS have been providing remote health consultation including diabetic, Rheumatology, Nephrology and other super specialty consultation services, facilitating the regular interaction of doctors and patients of the village for follow up and obtaining expert clinical opinion.

- KIMS facilitates capturing of patient health data and preservation for certain period time and retrieval for medical analysis, as and when necessary at the time of follow up visits. The interaction with the patients of the village by doctors in KIMS and treatment history are being transcribed and preserved as medical records. The vital parameters of remote patients (like BP, ECG, etc.) are visible to doctors through Tele-presence solutions and there is end-to-end integration of Bio-medical equipment, and video conferencing equipment.

- Mobile Clinic, High-end patient care including super-specialty services were provided at the door step.

- Medical camps and awareness programs have been organized in different districts of the state of Odisha to spread awareness on proper hygiene, sanitation, infectious disease control, prevention measures, healthy nutrition for different age groups, and ill effects of tobacco products and alcohol consumption.

- Wellness clinics have been established in the city of Bhubaneswar and in several districts of the state by the University supported by its medical unit. These clinics provide services associated with naturopathy treatment, counseling services, rehabilitation and de-addiction therapy. So far, more than 2500 people have been cured of mental tension and severe addiction.

- Webinars on COVID-19 awareness and Prevention, Impact on Live & Livelihood, Role of Nurses in management of COVID-19, Entrepreneur opportunities during and post COVID-19 etc have been conducted.

- Awareness on COVID 19 has been created among 500,000+ people in the state.

- Training Programs were organized on basic life support, cardiopulmonary resuscitation and first aid, and on fire safety and prevention during 2020 with 200+ participants across the state.

- School of Yoga provides information on yogic practices and its benefits. Awareness programs and special sessions are conducted round the year for students and staff members. The International Yoga Day was celebrated on 21st June, 2020 through the virtual platform

- The Mega Health Camp with free medicine distribution was held in every block headquarters of thefour districts-Kandhamal, Boudh, Nayagarh and Ganjam on first Sunday of every month. The programmes have been held in 20 blocks of these districts in first phase. Doctors, specialists and para-medical staff from KIMS joined the camp and provided health services. Besides, the mega health camps have also been held in district headquarters twice a month. Doctors and

specialists with modern medical equipment were available in these health camps.

- KIIT School of Yoga organized an exclusive session on Yoga, Meditation and Nutrition: The Key Ingredients for Immunity Enhancement on 24th September 2020. The specific discussion revolved on 'How to enhance immunity during this pandemic situation, foods that help in enhancing the immune system and impact of yoga and meditation on immunity development'.
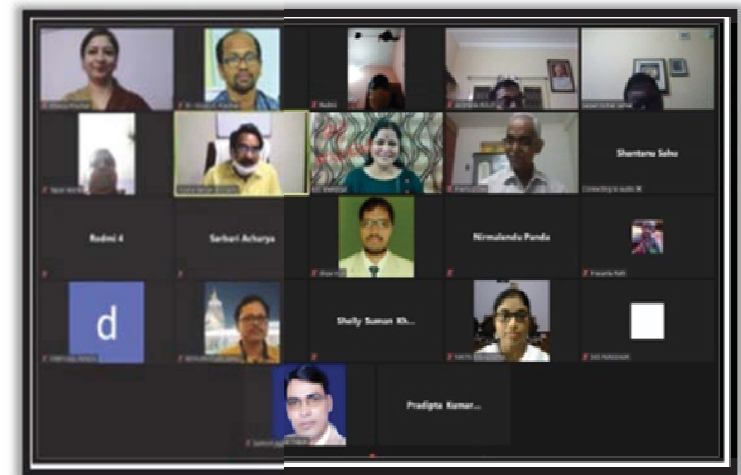
- School of Public Health conducted a month long Training Programme on "Risk Management and Prevention of Antibiotics Resistance" as a part of the PREVENT IT – consortium consisting of five Indian Universities, four European Universities and two Non-Governmental Organizations (NGOs) supported by the Erasmus+ programme of European Union. The project aims to converge academicians and NGOs to inculcate a sense of awareness towards Antimicrobial Resistance (AMR), judicious use of antimicrobials and the economic/health burden of AMR, among students, academicians, clinicians and population at large, which is aligned with India's national action plan for AMR.
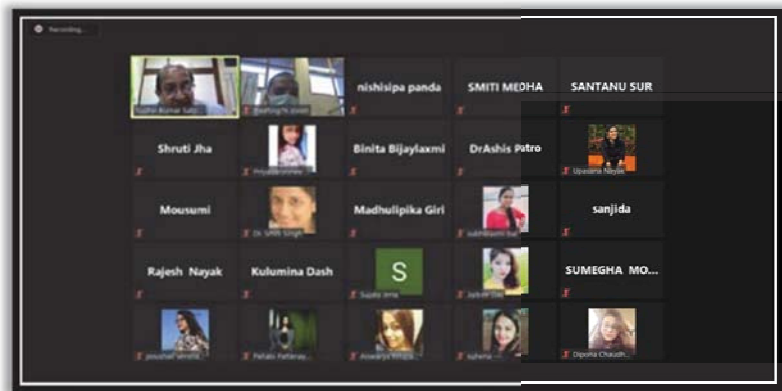
- Five-day Online FDP on 'Artificial Intelligence', focusing on 'AI in Health Dynamics: Conventional Medicare to Intelligent Healthcare' had been held from 21st to 25th December 2020.As many as 14 sessions were conducted under the FDP, which contributed to improving research skills of the participants. Eminent speakers from both academics and industry facilitated knowledge to participants who had joined from 20 states of India. The programme centered on numerous topics, including the impact of AI in cardiac healthcare, wearable, medical imaging, reinforcement techniques, and other healthcare analytics. It addressed various challenging issues concerning the healthcare domain and several technically feasible solutions.

- Infection Control Week with the theme "Break the chain of Infection" was organized from November 23, 2020 in the virtual mode.

- The members of Khwaab Society celebrated International Women's Day this year with the most graceful ladies of Khandagiri Tapovan, Bhubaneswar where Sanitary Napkins were distributed to more than 60 women and made them

aware about how to maintain proper Hygiene and their Health as well. https://news.kiit.ac.in/kiitnews/khwaab-society-of-ksac-celebrated-international-womens-day/

➕ Dedicated website with information on sexual and reproductive health-care advices and services https://kiit.ac.in/policies/sexual-and-reproductive-health-care-services/

➕ Session on Sexual & reproductive health and Women's rights during this Pandemic was conducted as part of webinar series by Kalinga Institute of Nursing Sciences, nursing unit of KIIT to commemorate the 200th Birth Anniversary of Florence Nightingale from 11th to 13th May, 2020. https://news.kiit.ac.in/kiit-events/role-of-nurses-in-management-of-covid-19/

➕ Recognition :

◆ Kalinga Institute of Dental Sciences (KIDS), KIIT Deemed to be University was conferred with the prestigious Sushruta Award for Best Dental College of the Year 2020 by International Exemplary Research and Performance Awards.

◆ KIIT School of Public Health (KSPH), KIIT Deemed to be University has been accepted as an active member of the South East Asia Public Health Education Institutions Network (SEAPHEIN) supported by WHO SEARO.

◆ KSPH received from SEAPHEIN the "Public Health Education Leadership Award" for significant contribution in promoting Public Health Education at the 9th Biennial SEAPHEIN Meeting in 2019.

✚ Realising that Academics and sports complement each other, from the inception of KIIT we have been giving top priority to sports. As a result, Over 3,71,354 sq. ft. of well-appointed courts, tracks and fields, with World class sports facilities for a wide range of sports including international standard Swimming Pool, Archery Ground, Rugby Ground, Football Ground, Hockey Ground, BCCI approved Cricket Ground and all others. It has been proved successfully by conducting the first-ever Khelo India University Games entirely at KIIT campus very successfully.
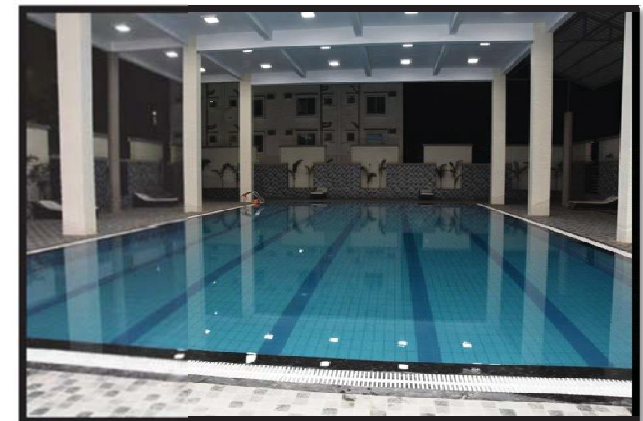
Sports Facilities available at KIIT

The primary motto of the University is "Quality Education for All" largely addressing SDG4. The University believes in empowering all the segments of society and eradicating poverty with education through compassionate approaches

- The University provides free education to the tribal students coming from the poorest of the poor communities in different undergraduate and post graduate degree programs taken up after counseling.

- Two new schools KISS-Oswal and KISS Adani have been established in Bolangir and Mayurbhanj districts of Odisha in 2020 to provide fee education, accommodation ad healthcare facilities to tribal students of these districts. 3000 students have already benefited.

- The faculty members and students of the University are voluntarily engaged in educational activities with the KISS Foundation and at its sister organization, Kalinga Institute of Social Sciences (KISS) to prepare the children and students for higher studies. Details about KISS are provided in Appendix-I.

- Special scholarships have been established for the children of COVID deceased for pursuing technical and profession education at KIIT. 56 Students have been given full fee waiver under this scheme. https://form.kiit.ac.in/special-covid-scholarship/

- KIIT has launched several online courses for value addition for the entire student fraternity across the globe which can be readily be accessed through the following link https://kiitx.in/ . Apart from the students, faculty members and research scholars can undertake

these courses for their professional development. The courses include Internet of things, robotics, learning process and genetic engineering.

- The faculty members and students from different societies under the umbrella of KIIT Student Activity Center and National Service Scheme have been actively engaged in educational outreach programs beyond the campus in villages, schools and orphanages.

- The University has adopted 10 Panchayats, villages and 17 schools in the state with the commitment to provide them with all facilities and support for quality education and employability skills. Dedicated teams comprising University staff and student coordinators from different societies have been actively involved in educational outreach activities in these regions and schools. During COVID 19 pandemic, training programmes on enhanced teaching skills using ICT tools and online video conferencing platforms have been imparted with effective hands on experiences.

- The University provides free access to its digital resources through its central library for students, researchers, scholars and faculty members from all institutions. Free access is also provided to its magazine lounge KEN, Kavya, Kamyaa, Gandhian library 'Karamchand' and Jagannath temple spiritual library.

- Motivational programs to inspire the youth for higher studies are carried out every year through 'Education for All' summit and 'Education for All' marathon. More than 1.5 million people have been motivated through this initiative to join higher education programs.

- The University provides free access on request to different laboratories across different departments (including research labs, centers of excellence and business technology incubation cell to carry out tests on innovative ideas and do research work).

- A horde of guest lectures, seminars, workshops and conference have been organised which were open for the general public. Details are given in Appendix-II.

- KIIT in partnership with KISS had organized a week-long digital UN75 campaign from October 18th – 24th, 2020, to amplify indigenous & youth voices while addressing key areas of Education, Inclusion and Climate Change through online dialogue

- & discussion as well as field level awareness campaigns , adhering to Covid-19 health and safety guidelines.

- The University also provides skill development training under different Government schemes like Deen Dayal Upadhyaya Grameen Kaushalya Yojana scheme and Pradhan Mantri Kaushal Vikas Yojana scheme to the unemployed youth   to make them job ready .Details of the Skill development programs are given in Appendix- III.

- The University has been acting as an advisor to the Royal Government of Bhutan and is actively involved in providing skill development training to the youth of their nation.

- Dedicated placement cell exists to maintain liaison with the corporate and different job sectors to facilitate placement for its students graduating from different programs; the students hailing from tribal background are provided with special mentoring for placement; placement drives are also organized for the trainees under skill development programs.

- 'Kanya Kiran' program had been launched in association with United Nations Women and Kalinga Fellowship. In a mobilization of scale and spread unheard of before, the program covered all the Panchayats of the State of Odisha in India, spreading awareness on gender equality and social evils of violence against women and girl child among millions of households. Over 4000 staff of the University, particularly women staff was actively involved as coordinators and volunteers. They disseminated the message at household level in villages amid overwhelming response. The Women folk were also made aware of hygiene and environmental issues.

- Researches on academic topics around SDGs are also being given importance in the University. Research on Quality educations leading to quality papers have been being carried out. The list of papers on quality education published in 2019 and 2020 are given in Appendix- IV.

- A wide spectrum of Centers of Excellence have been set up in the University with knowledge and technical support from different organizations to carry out quality research, studies and innovations in avenues of sustainable development goals. https://kiit.ac.in/coe/   Details are also given in Appendix-V

- Open Day
  - ◆ Students (Science Stream) from Navajyoti Science Higher Secondary School, Bhubaneswar visited the Academic Laboratories and Research Laboratories of the Schools of Engineering, Applied Science and KIIT TBI Centre on 18th January and 25th January, 2020 respectively.

  - ◆ Students of class 12th (Science) from Saraswata Residential College, Balakati, Khordha visited the Academic Laboratories and Research Laboratories of the Schools of Engineering and Applied Science on January 11, 2020.

Open Day

- TEDxKIITUniversity

  TEDx Motivational Talk was organised on 11th January, 2020. Aditya Tiwari, Social Activist shared his perspective on social service as a life changing experience. Details at: https://news.kiit.ac.in/kiit-events/conference/tedx-speaker-aditya-tiwari-delivers-address-to-ksom-students/

Gender equality is essential for appropriate representation of human resource at all levels and the University has been working on this SDG5 relentlessly over the year

- There is a significant representation of women among the senior management of the University including Deans, Directors and Hon'ble Pro Vice-Chancellor.
- As per the norms of the Government of India, 30% seats in all programs are reserved for women candidates. The University has a female representation of about 51% in all programmes across the University during 2020.
- There is female representation of over 35% in the University workforce.
- KIIT University has a standard committee to ensure the development of an dynamic governance system for implementation of equality along with diversity and inclusion in the campus i.e. conduct of audits to check the accountability of the strategies followed for equality diversity and inclusion and analysis of gaps found, review of implementation of existing policies and their progresses, formulating customized policies and regulations for maintaining equality, diversity and inclusion and monitoring their effective implementation, re-dressal of grievances related to inequalities due to caste, creed, race, gender or disability. The committee has worked effectively in the year of 2020 towards the implementation of gender equality and inclusion to the campus.
- School of Mass Communication at KIIT has started a Gender Orientation Programme (GOP) based on the societal, constitutional and academic requirements from 2020.

Kalinga Institute of Industrial Technology

- GOP Talk on Environmental Justice: An Eco-feminist Perspective was organized on July 30, 2020 and delivered by Dr. Chitra, K. P., Assistant Professor, Department of Social Work, Central University of Tamil Nadu. She discussed the equation between social inequality and environmental inequality. She also explained how the environmental crisis is related to social injustice. Environmental injustice has been a very general issue for all which she analyzed the concept through a gender lens.
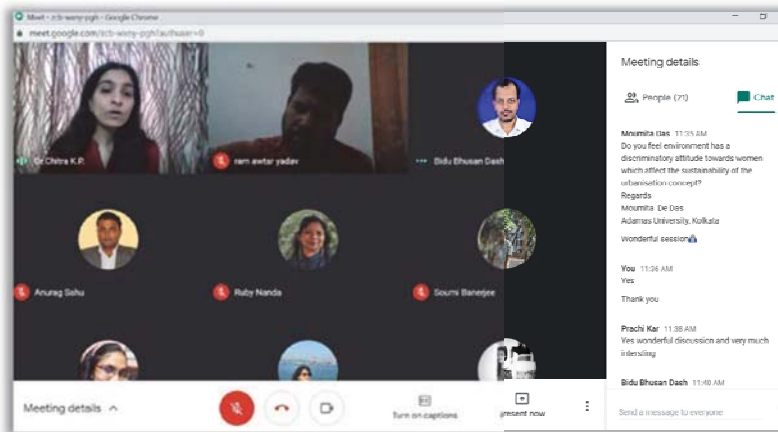
- The University also conducted recruitment drives for transgenders. The University has appointed a transgender, as its Social Development Officer becoming the first in the private sector India to do so. The University has been towards the welfare of the transgender community in different aspects.

- 'Kanya Kiran' programmes in association with United Nations Women and Kalinga Fellowship, were organised in all districts of Odisha in 2020, spreading awareness on gender equality and social evils of violence against women and girl child among millions of households. Over 4000 staff of the University, particularly women staff were actively involved as coordinators and volunteers.

- Other awareness programs and Nukkas Nataks (street plays) were carried out in different districtsof the state by KIIT student societies to emphasize the importance of women in household and society.

- Gender Audit was conducted in 2020 as an annual process.

- As a part of the week-long campaign to celebrate 75 years of the United Nations, KIIT, KISS and KSAC conducted an Open MIC Session on the theme, 'Role of Women Empowerment to Achieve Gender Equality'. Some of the sub-themes of the open MIC session were: 'Ensure girls have the same right to education as boys thus giving them the power to make informed choices and decisions'; 'Enhance the use of enabling technology, in particular

information and communications technology, to promote the empowerment of women'; 'Ensuring women's full and effective participation and opportunities for leadership at all levels of decision making in political, economic and public life'; and 'Eliminate all forms of Violence against women and girls in the public and private spheres, including trafficking and sexual and other type of exploitation'.

Snapshots from the Programme

Kalinga Institute of Industrial Technology
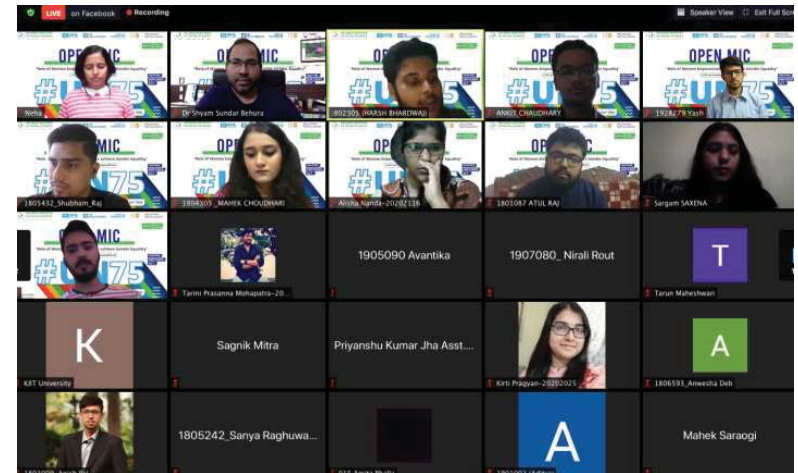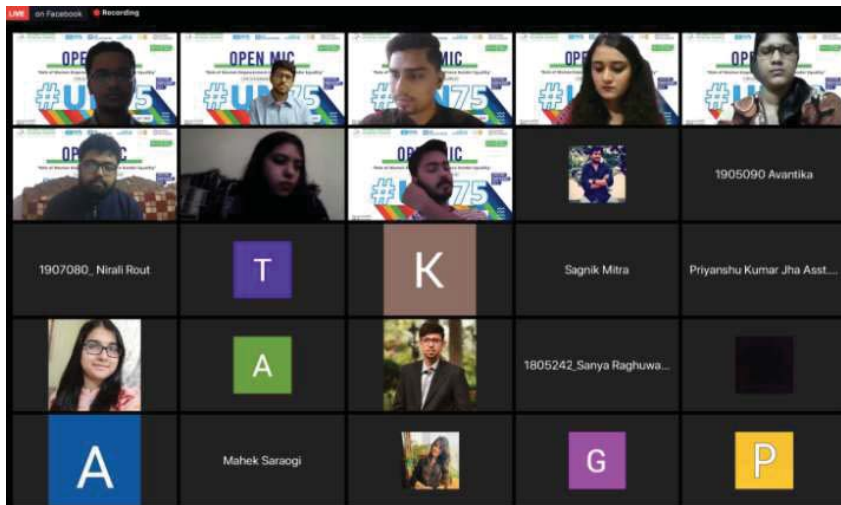
➕ Women's day Celebration 2020

◆ Workshop on Women Empowerment was conducted by Prof. Shradha Padhi, Professor, KSOM to celebrate International Women's Day. The program was attended by 20 delegates from different corporate organizations, lady faculty members and non teaching members. The workshop comprised sessions on "Women Know Thyself" and "The Leader in You : Unleashing the Inner Strength".

◆ Two day Youth Parliament event was organized by KIIT NSS Bureau and held on 5th and 6th of March, 2020. The Bills discussed in the Youth Parliament were the Data Protection Bill, 2019 and the Surrogacy Bill, 2018.

Snapshots from the Programme

◆ Women's Safety Workshop was organized by KIIT NSS Bureau. The Workshop was spearheaded by the Orissa Taekwondo Association, who trained the girls under their wings.

◆ Mini Marathon was organized by School of Dental Sciences(KIDS) to spread the awareness and sensitize the people towards Women Empowerment and domestic violence.

◆ Workshops, Quizzes and Debates etc focusing on gender sensitization, equality, women's health, education, empowerment, safety and security etc were conducted.

✚ National Girl Child Day was celebrated on January 24, 2020 with the objective to provide maximum support and facilities to the girls in every respect and also to increase awareness about

discrimination against girls. 500+ girl students had participated and benefitted from this programme.

- Entrepreneurship Skill Development Programme for Women Entrepreneurs under Van Dhan Yojana scheme for Odisha had also been conducted.
- Several webinars, expert talks, online awareness programs on gender equality have been arranged during the pandemic period of different schools. Nearly 1000+ participants have attended those programmes.

- KIIT NSS Bureau in collaboration with 'Sakshi', an NGO, had started a series of workshop on the theme "Child Sexual Abuse and POCSO Act 2012". The series aimed at creating constitutional rights based on an enabled environment on gender equality with a focus on building awareness about POCSO Act 2012 as mandated by the Ministry of Youth Affairs and Sports, Government of India.
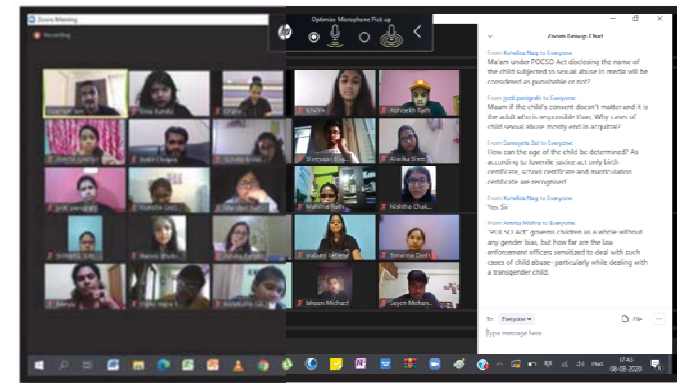
- LGBTQ Policy has been formulated and implemented. https://kiit.ac.in/policies/lgbtq-students/

The University is engaged in various initiatives in addressing the Sustainable Development Goal 6. There are already several initiatives in place and the associated activities relate to this goal. Several new initiatives and programs in this regard have been carried out in the stipulated period which is outlined in this chapter.

- KIIT Green, the bold initiative of KIIT University to control environmental pollution and to create a healthy ambience in and around 25 sq. km. area in which different campuses of KIIT are located has been successfully implemented. Different new units for rain water harvesting and sewerage treatments were added to various buildings and are currently taken care of by KIIT Green team.

- The students of KIIT University have been participating in different outreach activities to promote awareness on social Distancing, washing hands, drinking clean water and respiratory hygiene in their respective districts. Awareness on such activities have been carried out through online mode during the COVID-19 Pandemic.

- 500 volunteers were involved for this purpose and 220 villages in aspirational districts of Rayagada, Koraput and Malkangiri were covered. They also helped the state government in monitoring and administering Quarantine Centers in these areas. The work covers 6 aspirational Districts of Odisha: Raygada, Malkangiri, Koraput, Kandhamal, Balangir, and Gajpati. Nearly 4000+ people have been made aware about the importance of social distancing, proper hand washing etc.

+ Several online technical talks by experts, online webinar, and few offline technical talks have been conducted on waste water management, research on water in the year of 2020. For example the technical talk on " Small Community Water and Wastewater Treatment" conducted by School of Civil Engineering by the experts from North Dakota State University, USA on 8th March, 2020. The focus of the talk was to develop a system for the treatment of wastewater as well as to provide clean and drinkable water to the poor people in recent future.

+ Water supply to all campuses, units and residential complexes of the University is provided only after proper treatment and purification.

+ Swachh Bharat Mission (SBM), Swachh Bharat Abhiyan (SBA), or Clean India Mission is a Pan India campaign initiated by the Government of India in 2014 to stop open defecation and improve solid waste management. KIIT and its student societies regularly and annually take part in the SBM to spread awareness on the health dangers of open defecation. Several public toilets have also been set up by the University in remote areas to prevent open defecation.

+ KIIT University conducted a health education program and sanitation awareness campaign at Tangibanta Village. KIIT School of Electronics Engineering and Kalinga Institute Dental Science (KIDS) collaborated and took an initiative to educate people of Tangibanta village about the basic steps of hygiene and sanitation. Nearly 500+ people got benefited.

+ KIIT had initiated the project on "Tap Drinking Water Project" to supply purified water to each household of Kalarabank village. The project has brought down incidents of water borne diseases, which were widespread earlier. Nearly 1000+ people got benefited.

+ Currently different research projects are ongoing which are associated with SDG 6 as mentioned below:

a) '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.

b) 'Relationship between household sanitation and woman's experience of menstrual hygiene under Swachha Bharat Mission

(Clean India Mission) in Odisha', in collaboration with Indian Council of Social Science and Research (ICSSR).

c) 'Estimation of Garbage and quantification in and around Bhuasuni Dumping Yard' in collaboration with the Bhubaneswar Municipal Corporation, Odisha, India.

- KIIT University conducted a workshop on "World Environmental Day" on 5th June 2020. The workshop focused on development of different strategies to keep the environment clean :- Sanitation and Hygiene; Water Conservation, A cleanliness drive around the Campuses; Providing dustbins at different places; Creating an awareness of Reduce, Reuse and Recycle; Using least number of vehicles inside the Campuses to reduce pollution; Planning for a Green Campus.

- On World Water Day, to tackle the increasing water shortage issue, the University organized a programme on the rainwater harvesting as one of the most sustainable ways of supplementing other water sources. The NSS Team of KIIT School of Biotechnology collaborated with Bangali Sahi village on the outskirts of Bhubaneswar to outline and build a sustainable and eco-friendly structure for rainwater harvesting. The accumulated rainwater from surfaces on which rain falls will be purified, stored and utilised in various forms. Rainwater Harvesting is unrestricted from any sort of impurity, with relatively less storage cost and no maintenance cost involved except for periodical cleaning.

- Technical talk on "Small Community Water and Wastewater Treatment" was organized by the school of Civil Engineering, KIIT Deemed to be University under Institution of Civil Engineers (ICE) student chapter on 7th March 2020. Dr. Achintya Bezbaruah from North Dakota University, USA was the distinguished Guest speaker who talked on the Challenges and Opportunities that are present in the Treatment of wastewater as well as providing Clean and Drinkable water to the poor people of the Country.

Storm Water Management: Current Practices and Solutions: KIIT Society of Civil Engineers, in collaboration with ICE KIIT Student Chapter and ASCE KIIT Student Chapter, organized a Webinar on 'Storm Water Management: Current Practices and Solutions' as a part of the Knowledge Forum Lecture Series on 16th August 2020. Prof. (Dr.) Debabrata Sahoo, Associate Professor, Department of Agricultural Sciences of South Carolina Water Resource Centre, Clemson University, USA delivered this talk on the various challenges of Storm Water Management and presented his views on how it can be taken care of at its root level.
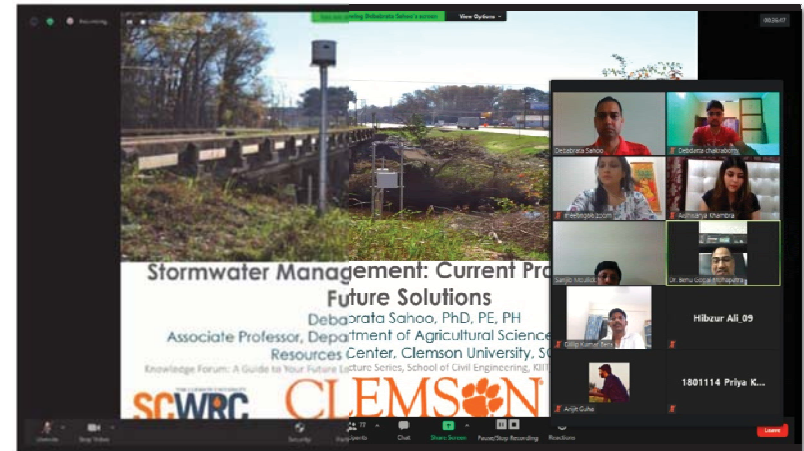
The University had signed MOU with Ernst & Young LLP, India on March 4, 2020 as a part of its mission on 'Swachh Odisha Sustha Odisha' envisioned by Hon'ble Chief Minister of Odisha, by adopting sanitation through Faecal Sludge and Septage Management (FSSM). The partnership focuses on two areas: (1) Urban FSSM Fellowship Program to support the program delivery at district level (2) Technical support through R&D to identify improvement in existing FSSM infrastructure, inclusion of FSSM in academic curriculum and training infrastructure to conduct FSSM programs.

Applied Sciences, KIIT-DU; Dr. Subash Chandra Mallick, Director, LN Indtech Services Pvt. Ltd.; and Dr. Bankim Chandra Tripathy, Principal Scientist, CSIR-IMMT, Bhubaneswar.

- KIIT Deemed to be University, in collaboration with LN Indtech Services Pvt. Ltd. and CSIR-IMMT, developed a technology, called 'Elcogen Technology', to treat wastewater discharged from Covid-19 hospitals and other screening centers. This technology has been highly appreciated by the National Research Development Corporation (NRDC), Govt. of India and funded for the demonstration on a pilot scale as a part of the Covid-19 research initiatives. This unique innovative technology can be used to treat many complexes and wastewater and, as a result, serve the society during this pandemic situation. The researchers and scientists who have relentlessly been working for this technology are Dr. Rojalin Sahu, Associate Professor in Chemistry, School of

- KIIT University in collaboration with KISS Foundation and along with KISS University distributed the sanitary napkins prepared in-house to women and girls in all tribal districts of Odisha. Nearly 300000+ women and girls got benefited.

The University is engaged in various initiatives in addressing the Sustainable Development Goal 7. There are already several initiatives in place and the associated activities relate to this goal. Several new initiatives and programs in this regard have been carried out in the stipulated period which are outlined in this chapter

KIIT Green envisaged and implemented various pollution control plans in the campus. The University had taken up the ambitious plan of making the campus totally vehicle free. In the first phase, use of bikes, both by students and staffs, has been prohibited, after putting in place an effective alternative transport arrangement.

Besides mass plantation and limiting vehicular pollution, other environmentally friendly initiatives under KIIT Green included setting up new rain water harvesting and water management systems, sewerage treatment systems, biogas plants, solar water heating systems, etc in the newly constructed buildings in the campus.

The interdisciplinary center of energy with special reference to renewable energy is operational in the University to address the targets set by SDG 7. Research projects, surveys and studies on effective utilisation of new sources of energy are being carried out here.

All the campuses, units and hostels of the University are equipped with solar panels to utilize the heat and solar energy abundantly available in our country.

- Energy audit is carried out in the University as its conducted on an annual basis.
- Awareness camps have been organized in different rural areas to propagate the message on the use, advantages and maintenance of solar ovens and solar lamps.
- The automobile society of the University has developed green vehicles (powered by solar energy and electric battery) for commuting within the campus.
- Various Conferences, Webinars and Talks were held on diverse topic related to renewable energy and other energy sources , some of which are:
  a. 'Emerging Trends and Advances in Electrical Engineering and Renewable Energy' (ETAEERE-2020) held during 5th - 6th March, 2020.

b. International Webinar on 'IOT & Advanced Technologies in Home and Building Automation Energy Management and Industry 4.0' was organised in association with Schneider Electric Private Limited as a part of International Webinar Series co-sponsored by IEEE Bhubaneswar subsection, Industrial Electronics Society Chapter, Bhubaneswar and IEEE Consumer Electronics Chapter, Bhubaneswar. This was conducted on Microsoft team platform from 01 July to 04 July, 2020.Mr. Anupam Srivastava, Marketing Manager for Schneider Lighting Control in India highlighted a recent trend of smart lighting in home or building automation and the current technologies covering the strength and the weaknesses of different technologies available. Mr. Ramakanth Kumuthe, Deputy Manager, Lighting Controls, Home and Distribution, Schneider Electric showcased a complete advanced technology known as KNX technology which can be integrated with regular electrical installations for converting them into smarter applications. More than 1000 participants across the globe were present.

c. Talk on 'Application of High Voltage for Air Pollution Control' was organised on August 12,2020

d. Talk on 'AI Application in Power and Energy Engineering' organised on December 14, 2020 was delivered byDr. Aleena via virtual mode, under the "Speak and Search Lecture Series". Dr. Aleena, in her lecture, highlighted various uses of Artificial Intelligence for proper consumption, distribution and utilization of power in Electrical Engineering. She also discussed various research

directions in this emerging field which would help the students and faculties to initiate research.

e. IEEE Distinguished Lecture on 'Advances in Current Fed Power Electronics Systems' in association with IEEE Industrial Electronics Society, Bhubaneswar and IIT Bhubaneswar was organized in virtual mode on 18th August 2020.

- School of Mechanical Engineering organized the installation ceremony of the ISHRAE (Indian Society for Heating Refrigerating and Air Conditioning Engineers) KIIT Student Chapter on 19th December 2020. Prof. Hrushikesha Mohanty, Vice Chancellor, KIIT emphasized on the need for research, innovation and affordable technology which can reach the common people.

- National Energy Conservation Day is observed on 14th December every year. On this occasion a quiz test for 1st year electrical students was conducted to encourage and motivate them to achieve the objective of energy conservation and enhance energy efficiency in the present context of climate change.

- School of Humanities organised an International Webinar on 'Environmental Humanities: Narratives and Critical Practices' on 10th December, 2020. The webinar aimed to sensitize the youth about the ecological concerns by teaching them literature concerning the environment and to offer learners first-hand knowledge of nature to help them develop their own perception.

- Several projects are being carried out in the domain of renewable energy and associated domains in collaboration with Government organizations:

    i. 'Development of CZTS based solar cells by Co-evaporation method' in collaboration with Department of Science and Technology, Government of India. (Prof. U.P.Singh)

    ii. 'Process Development for Fabrication of CZTS based solar cell on flexible (polyimide) substrate' in collaboration with Ministry of New and Renewable Energy. (Prof. U.P.Singh)

    iii. 'Process Development of Thin Film Solar Cells from Abundant and Non-toxic Materials' in collaboration with Science and Engineering Research Board (SERB), DST, Government of India. (Prof. U.P.Singh)

    iv. studies on growth of laser induced hyperdoped black Si(LibSi) and their photo excited carrier dynamics for cost effective and efficient photovoltaic application, SERB (Prof. U.P.singh)

    v. Design and implementation of Hybrid generation system used for rural electrification BPUT under CSIR Scheme (Prof. B. Panda)

- Various energy and water conservation programmes aligning with the Sustainable Development Goal 7 and 6 have been undertaken. Details available at: https://kiit.ac.in/conservation-programs/

KIIT is involved in a plethora of activities associated with SDG 8 providing and creating avenues for decent work and economic growth for all.

- This is facilitated through value based quality education of international standard and imbibing skill for solving real life problems; by inculcating global perspective in attitude; by creating leadership qualities with futuristic vision, by fostering spirit of entrepreneurship and realization of societal responsibilities , by cultivating adaption of ethics, morality and healthy practices in professional life; by instilling habit of continual learning, by encouraging and supporting creative abilities and research temperament, by establishing and promoting close interaction with industries and other utility sectors and keep up to date with the state-of-the-art technologies

- During the pandemic situation, the University has been conducting online classes and examinations across all centers and schools covering approximately 30,000 children. For the poor students who live in the most backward area, education through WhatsApp has been conducted. KIIT enormously helped in developing online classes for the students of the sister University "Kalinga Institute of Social Sciences" that for 30,000 tribal students from poor families of Odisha. The University also reached out to the poor backward students through a television channel -Kalinga TV. 100000+ students from KIIT, KISS and different parts of the country have benefited from this program.

- KIIT has pledged to incentivize and extend aid to the families of the COVID deceased. KIIT has resolved to provide technical and professional education absolutely free of cost to the children of the COVID deceased. Children of the COVID deceased victims can apply for various courses of KIIT-DU, including ITI and Diploma Engineering.

- The University is also providing monetary compensation of Rs. 500,000/- and a job to a family member of any employee who have succumbed to COVID-19 Pandemic.

- Preference for free admission was given to children belonging from below poverty level (BPL), scheduled caste (SC), scheduled tribe (ST), and Socially and Educationally Backward Classes (SCBC) categories.

- The University is also involved in facilitating education for tribal students through its association with the sister organization, Kalinga Institute of Social Sciences (KISS) with the voluntary engagement of its faculty members and senior students. Several alumni of KISS hailing from indigenous and poverty stricken background have been brought to the mainstream of the society.

- Offline camps as well as online camps have been organized in different locations of the state of Odisha to identify potential youths who were further trained and made more employable. The trainings were imparted by experienced University staff members towards developing communication skills, business communication writing, basic accounting, ICT technology and Digital skills etc.

- The University has developed learning development centers to facilitate the preparation of e-learning materials for students from different disciplines across the world, preparation of specialized courses related to the COVID-19 Pandemic for general public, workshops for patent and research project applications to scientific organizations, collaboration with top ranking Universities for academic exchange and research networking, organizing certification programs for teaching and laboratory assistants, organizing bridge courses for students from indigenous communities and other countries to facilitate their learning, specialized counseling sessions for students with one to one interaction, promoting peer learning and introducing flipped classroom courses, guidance in preparation and

application for higher studies, guidance in preparation for Civil Services in the country, certification programs for tribal communities associated with vocational training entrepreneurship and marketing of forest products, workshops on entrepreneurship strategies, leadership, marketing and entrepreneurship opportunities in the state of Odisha and India.The learning development center has faculty representatives from different departments and Schools as contact persons to whom other faculty-members and students can approach for availing the services and support of the center.

- Special online recruitment drives have been organized for the youths leading to economic stability in their families and alleviation of poverty in general.

- A dedicated placement cell is working continuously to facilitate placement for its students graduating from different programs; the students hailing from tribal background are provided with special mentoring for placement; placement drives are also organized for the trainees under skill development programs.

- KIIT University has dedicated skill development school "KIIT School of Advanced Skill (KSAS)" that was set up as part of a

national skill development mission to fulfill the growing need in India for skilled manpower in selected secstors and narrowing the existing gap between the demand and supply of skills. Furthermore, KIIT School of Advanced Skill (KSAS) is also a vocational training provider to help 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. Our Advanced Skill Center aims to improve the employability and entrepreneurship of the desirous unskilled resources. Due efforts are underway to create a new wave of entrepreneurship in the country that will result in further employment generation. The University always ensures that the right student chooses the right course according to his/her academic background, aptitude and skill-set. Doing this, help the students get the career edge and the extra push that is so highly needed in a competitive job market, eventually leading to professional success.

- The following researches were going on revolving around the SDG: 'Impact of Dynamic Capability on Success of Entrepreneurs: A Study of Small and Medium Manufacturers in

Odisha'. (Prof. Koustubh Kanti Ray) ; 'Service Quality Dimensions:-An Assessment of Government Sponsored Social Programmes'. (Prof. A.K.Sar)

- Camps have been organized in different locations of the state of Odisha to identify potential youths who were further trained and made more employable. Counselors available with the University identified the aspirations and talents in particular areas and suggested domains of training to be imparted. The trainings were imparted by experienced University staff members on use of file handling, communication skills and business communication writing, basic accounting, ICT technology and Digital skills.

- The tribal and unemployed youth were referred to the Skill Development Center for training in different schemes under Government initiatives (Deen Dayal Upadhyaya Grameen Kaushalya Yojana scheme and Pradhan Mantri Kaushal Vikas Yojana scheme) to the unemployed youth to make them job ready .Details of the Skill development programs are given in Appendix-III.

- Vocational training in candle making, diya making, preparing phenyle and incense sticks etc were also taught to make them self independent. 20000+ youth benefited during the year.

- Special recruitment drives have been organized for the youths leading to economic stability in their families and alleviation of poverty in general.


- Dedicated placement cell maintains liaison with the corporate and different job sectors to facilitate placement for its students graduating from different programs; the students hailing from tribal background are provided with special mentoring for placement; placement drives are also organized for the trainees under skill development programs.

- Mega recruitment drive: A mega job fair had been organized at Kandhamal District (9th-10th January, 2020) had been a huge success with 9000+ participants registering themselves for various jobs on offer. The Job Fair was organized by the district administration in association with the Panchayati Raj department, SC-ST Department and KIIT University. Job offers were provided by 71 companies.

- While more than nine thousand youth registered at the first ever Nijukti Mela of this kind in the district, 4900 were selected for jobs and 1300 were selected for training linked placement in various institutions. Around 8000 candidates were from Kandhamal and 500 each from Bhajinagar and Nayagarh participated in the event.

  (https://newsroomodisha.com/mega-job-fair-in-kandhamal-se es-record-number-of-job-offers/)

- School of Management (KSOM) organized its 11th National Finance Konclave on 13th December 2020 with the theme "Re-imagining Opportunities in the Shadow of Uncertainty: An Emerging Economy Perspective". In his keynote address, Mr. Vikram Gupta, Founder and Managing Partner of IvyCap

Ventures Advisors Private Ltd. spoke about the slew of optimistic trends happening in the country related to GST collection, Fintech and other financial policy initiatives. He mentioned how the Indian currency has remained stable and shared his views with respect to Venture Capital. He felt that being the third largest start-up ecosystem with huge global investments, the growth opportunities in India are immense.
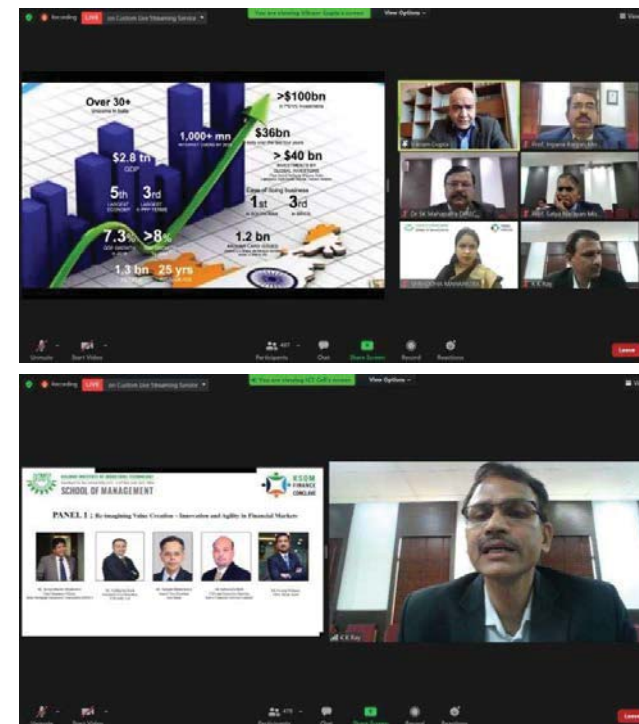
- National Business Analytics Konclave with the theme 'Transforming Businesses using Data' was organized by School of Management on December 20, 2020.

- As part of its Knowledge Dialogue Series, School of Management (KSOM) organized a Webinar on the theme 'Reforms Envisaged by the New Labour Codes - Varied Perspectives' on 10th October 2020. Eminent speakers like Dr. Tapas K. Panda, Deputy Chief Labour Commissioner, Govt. of India, Kolkata; Dr. Rajeev Nayan, an eminent HR professional; Professor P. K. Sarkar, Chairman, Committee for Legal Assistance to the Poor (CLAP) & Professor Emeritus, KIIT School of Law; and Professor S. K. Mahapatra, Director, KSOM deliberated on the New Labour Code, its backdrop as
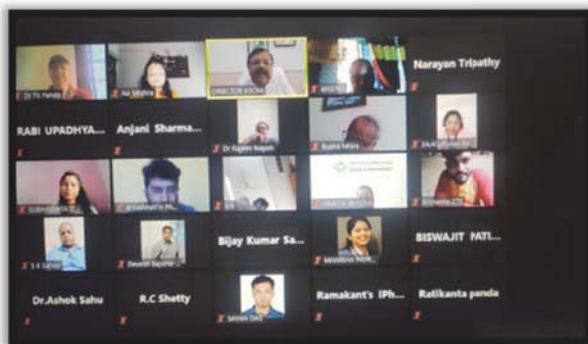
well as its impact on organized and unorganized sectors.

- The WING Program(Free 2 Day Capacity Building Workshop Sessions for Women Entrepreneurs)-an initiative of Start Up India had been organized by KIIT TBI with the support of Startup Odisha on 4th and 5th February, 2020. The Workshop has been launched by the Hon'ble Minister of State

(Ind.) MSME, Govt. of Odisha, Captain Dibya Shankar Mishra.

- A series of In-Campus Dialogues by KSOM students, based on the 17 Sustainable Development Goals of the United Nations, taking one goal at a time were held on 3rd January, 2020 to inculcate awareness on SDGs amongst the students. This is the

first unique initiative of the kind towards greater education empowerment.

- AIESEC in collaboration with the Training and Placement Department conducted an event, "Global Internship Forum" on 9th February, 2020 at KIIT Deemed to be University, Bhubaneswar. The event provided information about international internship opportunities available to our students throughout the world. The "Global Internship Forum" was graced by the presence of Dr. Kumar Mohanty, Director (Corporate Relations),KIIT DU. The event lasted for

more than 3 hours and involved around 300 students from different Schools of Engineering. This Internship forum was immensely helpful for the participants who aspire for international internships and choose to develop leadership in a unique way.

- KIIT School of Management, organized another event on Post-Budget discussion under the Theme-"Decoding Budget 2020" on 17th January, 2020.

- KIIT Alumni Webinar series on Regenerative Economy and Market System Approach for Atmanirbhar Bharat by KIIT alumnus Mr. Dipan Kumar Sahu (Class of 2009, KSRM) was held on 27th June, 2020. The webinar was hosted by KIIT Alumni Relations Cell in association with Vaave, the University's alumni portal partner.

- KIIT School of Commerce & Economics conducted a webinar on 6th July, 2020 from 4:00 p.m. to 5.30 p.m. for the students of M.Com and B.Com, on the topic "Entrepreneurship opportunities during and post COVID" which focused on opportunities as an entrepreneur in post COVID era.

- The second edition of KIIT Alumni Webinar Series, titled 'Preparing for Post COVID Job Market', was hosted by Alumni Relations Cell on 16th August, 2020. The Resource person for the Live Webinar was Mr. Varinder Singh, KIIT Alumnus (B-Tech 2007-2011 Batch, School of Mechanical Engineering). He is also an alumnus of IIM, Ahmedabad.
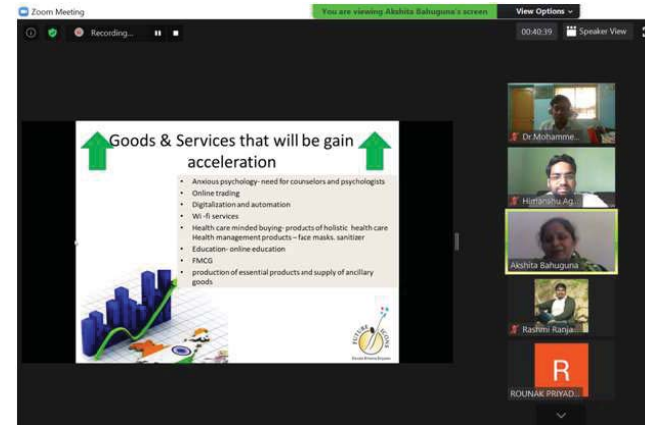
- Webinars on 'Start-Ups & Entrepreneurship' and 'ML Fundamental, Problem Solving & Industry Applications' were
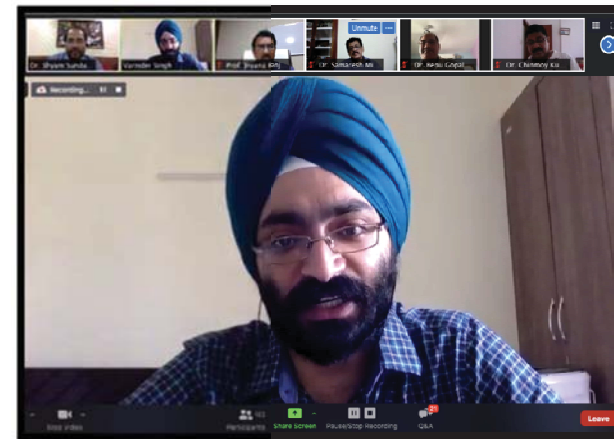
organized by Career Advisory & Augmentation School (CAAS), KIIT Deemed to be University. These webinars, which were meant for the students of Schools of Technology students from 2017-2021, 2018-2022 and 2019-2023 graduating batches, provided a comprehensive idea on career opportunities in Start-ups & entrepreneurship as well as in machine learning and related projects.

- The School of Electrical Engineering, KIIT Deemed to be University organized a Webinar on "Re-think, Re-shape, Re-align the Skill-set with the New Avenues during Covid-19" on 10th September 2020.
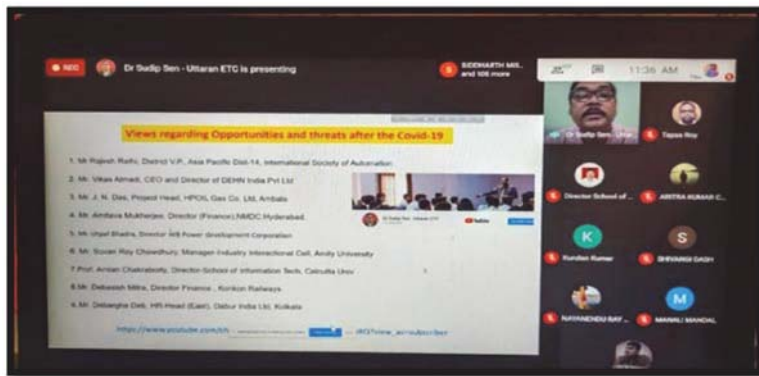
- As a part of its webinar series on 'Agri-Value Chain', Ms. Pragati Gokhale, Founder and Chief Mentor, Mission Mera Mobile Mera Marketing delivered a talk at KIIT School of Rural Management for the students of MBA (RM) and MBA (ABM) on 16th October, 2020.In her talk, she laid focus on a disruptive bottom up approach for enabling completely free online agro & rural marketing in India from rural stakeholders.
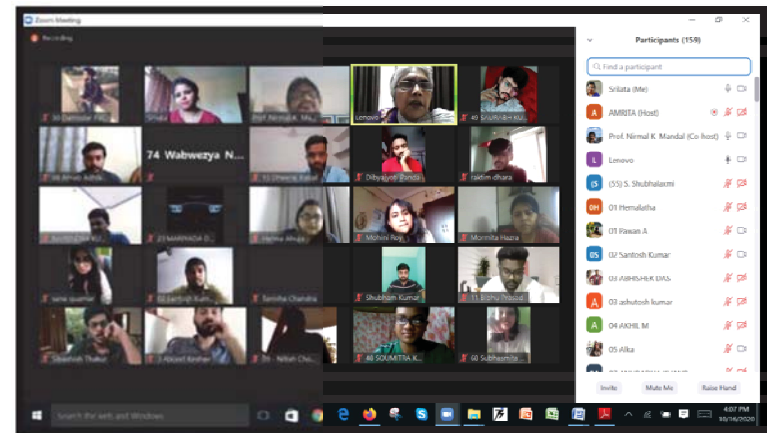
- Kraya and Kuber', the Marketing & Finance Society of KSAC, KIIT organized an online Marketing Workshop 2.0 on "Basics of Marketing and Why Brands Fail?" on 16th November 2020. The resource person of the Workshop was Prof. Sugato

Tripathy, Faculty, KIIT School of Management. The workshop provided the audience an overall picture about basic knowledge of marketing, the 4P's (Product, Price, Promotion, Place) of goods marketing, 3P's (People, Process, Physical evidence) of service marketing and causes of brand failures. The session ended with an interactive Q & A round. A total of 283 participants attended the workshop.

- As a part of the webinar series on 'Perspectives in Development', School of Rural Management organized a talk by Mr. Debaraj Behera, Consultant, World Bank on 17th November 2020. In the interactive session, Mr. Behera xplained the multiplier effect on the economy of the country and how the pandemic has impacted different segments of the society.

- School of Humanities organized an International Webinar on 'New Agriculture Acts 2020: A Multidimensional Approach' on 28th November 2020. The webinar aimed at sharing of perspectives among participants from diverse fields on contributions of the new policies towards economic growth of the country.

- School of Rural Management (KSRM) organized a talk under its 'Agribusiness Leaders' Talk Series' by Mr. Ravish Ambol, Marketing Lead, Savannah Seeds Pvt. Ltd. (a LGT Group company) on 17th December 2020.

- National Webinar on 'Post Pandemic Dynamics of Lives & Livelihood: Towards Effective Coping Strategies' was organized by the School of Commerce and Economics, on virtual platform on 26th December 2020.

- School of Management (KSOM) organized a webinar on "HR Transformation with Elements of Organization Design, Compensation & Benefits (Rewards) and Talent Management" under its Knowledge Dialogues Series on 3rd October, 2020.
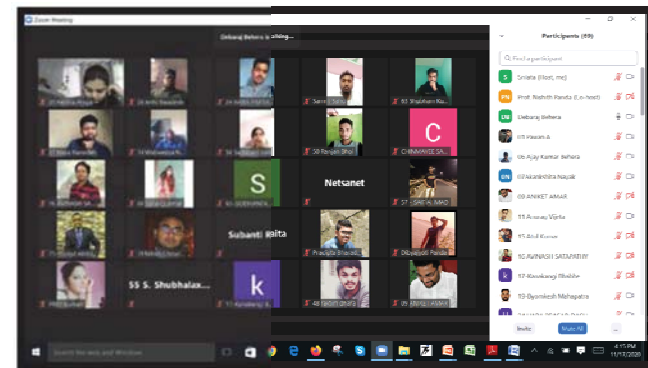
KIIT University has been fostering a culture of technical and social innovation since its inception. This has led to the development of an ecosystem within the University oriented towards addressing Sustainable Development Goal 9. Different initiatives and activities undertaken by the University in this regard are briefly outlined below.

+ KIIT-Technology Business Incubator (KIIT-TBI), an initiative of KIIT supported by Department of Science & Technology (DST), Govt. of India, offers incubation facilities and enables the incubatees to work in a secure, innovative and entrepreneurial environment as they progress through various stages of entrepreneurial development. KIIT-TBI is networked with all TBIs in the country through various networks like ISBA through which it is further networked with AABI (Asia Pacific), European UKBI and US NBIA. It is also a member of Asia Pacific Incubator Network (APIN). The current focus of the Incubator is in the area of Pharma-biotech, Bioinformatics, Exploitive Micro-biology, Agri-tech & Information technology, robotics and other Electronics and Engineering based technology – with a mandate to make the technology available to the civil society and the marginalised sections in the shortest time.

+ KIIT-Technology Business Incubator (KIIT-TBI) is recognised as a Centre for Augmenting War with COVID-19 Health Crisis (CAWACH) under Department of Science and Technology (DST), Government of India, along with similar institutes from IITs & other eminent Universities in India in

2020. KIIT-TBI is responsible for implementing this program in East and North East India.

- KIIT- Technology Business Incubator (KIIT-TBI) cell provided an appropriate platform and environment with a world-class infrastructure of around 120,000 sq. ft. that offered a range of incubation facilities and services to the prospective entrepreneurs to convert their innovative ideas into commercially viable products and till date, it has already incubated and mentored 250+ ventures, 300+ technologies and 4500+ job creations.

- Industry Engagement cell at the University liaisons with the industrial and corporate sectors for requisite collaborations. These associations resulted in various developments in our organization in terms of innovation and cutting edge research.

- Central Advanced Research Centre has been established in 1.5 lakh sq. ft. built up area with sophisticated equipment for advanced research.

- KIIT has set up an Innovation and Entrepreneurship Cell to provide technical knowledge and facilities for starting technology driven enterprises as well as doing research for

conceptualizing and implementing cost-effective techniques. It fosters entrepreneurship among students and assists budding entrepreneurs by providing them with necessary resources.

- Centre for Industry Institutional Interface has been set up to devise strategies for the promotion of synergistic interface with industry. It also sensitizes the academia towards needs of the industry, besides organizing events involving the industry.

- CIR and R&D Cell has been established to achieve the strategic goals of KIIT and to promote identity of the University as a modern, dynamic, research-intensive institution as well as to enhance the University's activity and profile in graduate studies and research. The Cell has been instrumental in organizing to organize international and national conferences where agglomeration of laureates from worldwide has delivered vital and essential information. The Cell has earned fund sanction by Government and industries towards research. It also coordinates the activities associated with 'Intellectual Property Rights' (IPR) with an objective to generate revenue from the use (protect / sell) of intellectual

property generated on campus by research projects & consultancy.

- BDTC was established at School of Biotechnology in April 2009, supported by Ministry of New and renewable energy (MNRE), Govt. of India. The centre is running with a broad objective to provide technical services and trainings for biogas in Odisha and for implementation & awareness creation of the programme.

- Centre for Children's Studies is a joint initiative of KIIT and UNICEF. It aims to strengthen the existing systems to promote strategic knowledge management and building a knowledge base on children's and women's issues concerning the state of Odisha with focus on social inclusion. Through this Centre, KIIT and UNICEF will work together to develop platform and system to promote generation, analysis and sharing of strategic knowledge that ensues in policy framing, implementing and program delivery.

- KIIT School of Management has partnered with IBM to avail training activities and provide software and support for it's students and faculties through IBM-KSOM Centre of Excellence. The centre conducts faculty and student development programs, free of cost. Participants who complete the program successfully are deemed 'Subject Matter Experts' in the respective area.

- COE-SAP, which functions in School of Management in alliance with SAP UA, provides SAP education to MBA students so as to make them perfect IT enabled business graduates to work not only in SAP client organizations, but also all other promising business environments meaningfully.

- Centre of Excellence on Internet of Things (IoT) at School of Computer Engineering has brought together a dedicated team of students under the guidance of encouraging faculty members, who are working hard to find IoT equipped solutions to the day-to-day problems.

- Several Centers of Excellence have been established in the University with technical or knowledge support from various industrial/corporate sectors as well as research organizations like National Instruments, SAP, IBM corporation, Texas Instruments, Siemens, Bosch, Schneider Electric, Mercedez Benz, Tech Mahindra, Berufsgnossenschft-Der Bauwirtschaft,

(Germany), Intel, Boeing India, Department of Science and Technology, Indian Space Research Organization, Ministry of Micro, Small and Medium Enterprises, Biotechnology Industry Research Assistance Council. Details are given in Appendix-V. All these centers were involved in research revolving around various SDGs and product innovations.

- Entrepreneurship Cell functioning in the campus has been helpful in fostering entrepreneurship culture amongst the students and establishing necessary support systems for aspiring entrepreneurs. The students are being connected to mentors, funds and the platform to bring their ideas into existence.

- Several online entrepreneurship awareness camps, webinar, expert talks from industries were conducted in 2020 comprising motivational lectures, business quizzes, personal interactions and industrial collaborations, technical challenges etc.

- Research papers have been published during the year (2020) reflecting the research outputs and innovations by the University's students and faculty members.

- A number of products have been patented and the details are given in Appendix- VI. 62 patents have been published/ granted during 2019 and 2020.

- Faculty members from School of Civil Engineering were involved in research and consultancies involving resilient infrastructure. The details are given in appendix-VII

- Realising that Academics and sports complement each other, from the inception of KIIT we have been giving top priority to sports. As a result, huge sports infrastructure for 32 sports events has been created, including international standard Swimming Pool, Archery Ground, Rugby Ground, Football Ground, Hockey Ground, BCCI approved Cricket Ground and all others. It has been proved successfully by conducting the first-ever Khelo India University Games entirely at KIIT campus very successfully.

- KIIT Faculties and Alumni have jointly developed "Wearable Hand Sanitizer Dispenser Device With Pulse Oximeter" to strengthen individual fight against COVID Pandemic. This innovation was patented by the Australian Government recently. The KIIT Management conveyed

congratulations and best wishes to the Dr Pritam Mohanty & team for such a splendid achievement.

- International Conference on "Recent Developments in Sustainable Infrastructure" was held on December 19, 2020 in hybrid mode. The function was attended by eminent persons from government sector, academia and industry including foreign delegates. The conference focused on sustainability of Civil Engineering Practices. Seven specific themes viz. (i) Blended Technologies in Civil Engineering, (ii) Sustainability in Geotechnical Engineering, (iii) Sustainability in Transportation System, (iv) Sustainability in Environmental Engineering, (v) Sustainability in Water Resources Management, (vi)Sustainability in Structural Engineering, and (vii) Sustainability in Construction Management.

- Entrepreneurship awareness camps were conducted in 2019 which comprised of motivational lectures, business quizzes, personal interactions and industrial visits.

International Conference on "Recent Developments in Sustainable Infrastructure"
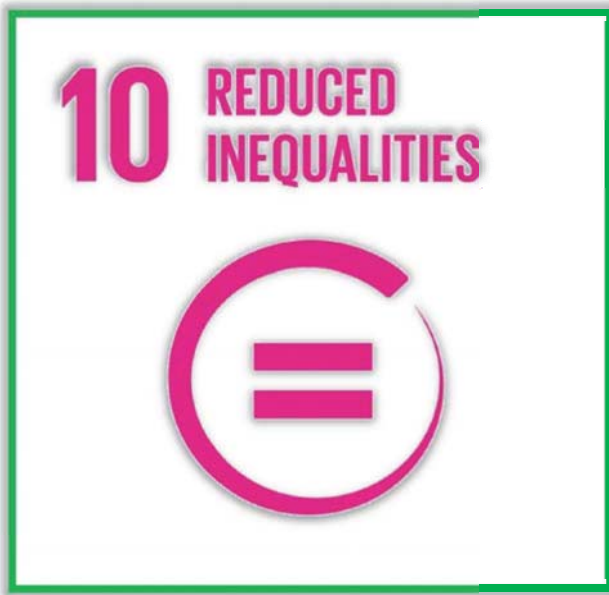
The University has been relentlessly striving towards reducing inequalities since its inception in different segments of the society in multiple aspects. Some of the policies and efforts undertaken in this direction is outlined in this chapter

- Admission policy has been framed to provide fair representation of underrepresented groups, students from underdeveloped/developing countries and differently abled students across different programmes of study (details available at www.kiit.ac.in or www.kiitee.ac.in); scholarship details are available at https://www.kiit.ac.in/academics/scholarships-fellowships/.

- The University also had defined anti discrimination/anti-harassment policies along with associated committees, grievance cell and Equality, Diversity and Inclusion committee to look after issues related to bias or harassment raised by any staff or student. (for details, one may visit: https://kiit.ac.in/policies/, https://kiit.ac.in/equality-diversity-and-inclusion-committee/, https://kiit.ac.in/equal-opportunity-policy/, https://kiit.ac.in/anti-harassment-policy/)

- LGBTQ Policy has been formulated and implemented. https://kiit.ac.in/policies/lgbtq-students/

- Special provisions, services and accommodation are available for differently-abled staff and students to make them feel at comfort in the University. https://kiit.ac.in/service-for-differently-abled/).

- Mentoring cum Counseling and Support Services are provided for Students/Staff including those from Underrepresented Groups (http://kiit.ac.in/student-counselling/)

- More than 6000 alumni of KISS have already placed in different government, non government, banking as well as corporate sectors with an average salary package of 5.00 lakhs INR.

- KIIT has helped more than 7000 first generation learners to come out from their unrecognized lives inside the jungle to social mainstream and helped them to lead a decent life. This initiative was aimed to address the economic inequality.

- The University conducted skill development programmes for school dropouts and unemployed youth to motivate them to learn customized design/trade skills as per their interest and pursue their career in that direction. Not only the students are skilled as per the field of their choice, counselors also counsel them to take up jobs available in different sectors to earn their livelihood. In 2020, KIIT has trained youth of Odisha through various skill development programmes and placed them in the large companies, NGOs and financial sectors. The details of the skill development training programmes are given in Appendix-.III. This initiative was aimed to address the economic inequality.

- School of Mass Communication has started a Gender Orientation Programme (GOP) based on the societal, constitutional and academic requirement from 2020.

- GOP Talk on "Environmental Justice: An Eco-feminist Perspective" was organized on July 30, 2020 and delivered by Dr. Chitra, K. P., Assistant Professor, Department of Social Work, Central University of Tamil Nadu. She discussed the equation between social inequality and environmental inequality. She also explained how the environmental crisis is related to social injustice. Environmental injustice has been a very general issue for all which she analyzed the concept through a gender lens.

Number of Districts covered in Odisha	30
Number of Staff volunteers involved	4000 +
Number of Women benefitted	35000 +

➕ 'Kanya Kiran' programmeswere organised in 2020 in association with United Nations Women and Kalinga Fellowship. In a mobilization of scale and spread unheard of before, the program covered all the Panchayats of the State of Odisha in India, spreading awareness on gender equality, importance of women in society and social evils of violence against women and girl child among millions of households. Over 4000 staff of the University, particularly women staff was actively involved as coordinators and volunteers. They disseminated the message at household level in villages amid overwhelming response.

➕ An Innovation Centre to stimulate the local women community towards rural entrepreneurship has also been established. Innovation Centre for Women, conducted several developmental projects facilitating women entrepreneurship to stimulate the local women community towards rural entrepreneurship. Mentoring activities including help in formulating proper business model/ plan, product development, fund raising, fund management, developing marketing strategy and other related activities had been provided.Awareness has also been spread among more than 5000 women who have already benefited.

➕ Several Women Empowerment Seminars and training programmes have been conducted.

➕ Capacity building projects/ programmes for Women Entrepreneurs were also being conducted.

➕ There is no pay disparity on the basis of gender in KIIT.

The faculty members and students of the University were voluntarily engaged in educational activities at its sister organization, Kalinga Institute of Social Sciences (KISS) to prepare the children and students for higher studies. Details about KISS are provided in Appendix-I. This initiative was oriented to address the social inequalities.

Community Engagement centers established in all districts of the state of Odisha has teams working on social issues in different areas and implementing initiatives to address the social inequalities.

Dr. Deepanjali Mishra from the School of Humanities delivered a talk on 'Reduced Inequalities in Educational Opportunities: A Case Analysis of KIIT University' at the EuroAsia Conference organized by Baku Eurasian University in Azerbaijan on 9th December, 2020.

KIIT in collaboration with Kalinga Institute of Social Sciences and United Nations Population Fund (UNFPA) had initiated the project 'Samarthya', the Life Skills Education for adolescents with disabilities studying in the special schools of Odisha, for promoting their health and wellbeing, since August 2020. The project is being implemented in close collaboration with the Department of Social Security and Empowerment of Persons with Disability (SSEPD), Government of Odisha.
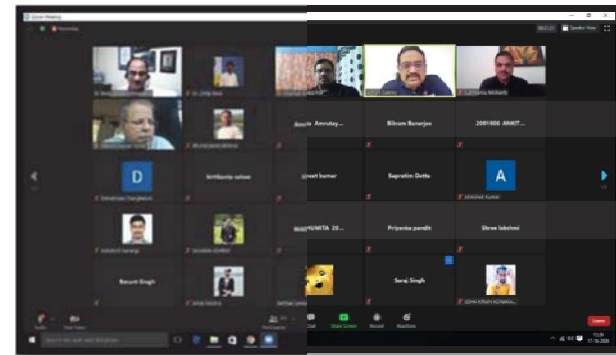
National Seminar on Challenges & Opportunities for Differently Abled People in India and their inclusiveness in the mainstream of Society was organized by School of Management on 5th March, 2020

- School of Civil Engineering organized the 1st Kweettalk SMESCE (Panel Discussion) on the topic 'Diversity and Inclusion Best Practices in Talent Acquisition' on 17th October 2020.The panelists described how Diversity and Inclusion culture based hiring has a better hiring efficiency and helps identify behaviour better and ensuring better people management. It is more process-centric from sourcing to designing to execution to a culture fit and overall a better circle of control in the process, they opined. More than 210 students participated in the panel discussion.

- Tech-based training modules for tribals including Tailor made tech solutions, courses and modules with focus on Advertising, Branding, Product Market Knowledge, e-channels, knowledge about online platforms , Hands-on Training on use of online platform like Amazon etc for selling products and use of KIIT ERP integrated with SAP was imparted through the Community Engagement Cell.

- First Technical Advisory Group (TAG) Meeting on "Life Skills Education (LSE) for adolescents with disability in Special Schools of Odisha" was organized by United Nations Population Fund (UNFPA), Odisha team and Mission UDAY team in collaboration with KIIT & KISS on 26th August 2020
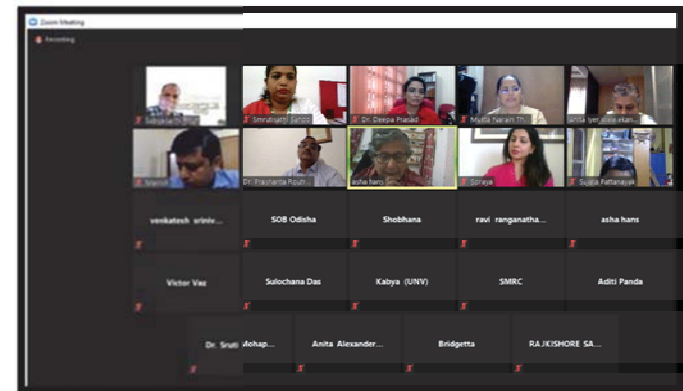
on the virtual platform.

The University considers targets and goals for SDG 11 instrumental in development and growth of the nation and has been implementing several initiatives in this regard which are outlined in this chapter.

- KIIT in collaboration with KISS Deemed to be University,and in association with Child Centric Disaster Risk Reduction (CCDRR), National Institute of Disaster Management (NIDM),

Ministry of Home Affairs, Govt. of India, organized a webinar on 'Disaster Risk Management in India: Issues and Challenges' on 21st December 2020. This webinar strived to identify and discuss mechanisms for monitoring disaster risk management and policies for issues faced in disaster-prone areas. The expected outcome is to establish a strong cohesive disaster risk management coordination mechanism, mapping the capacity needs and gaps.

- School of Humanities organised an International Webinar on 'Environmental Humanities: Narratives and Critical Practices' on 10th December, 2020 with the aim to sensitize youth about the ecological concerns by teaching them literature concerning the environment and to offer learners first-hand knowledge of nature
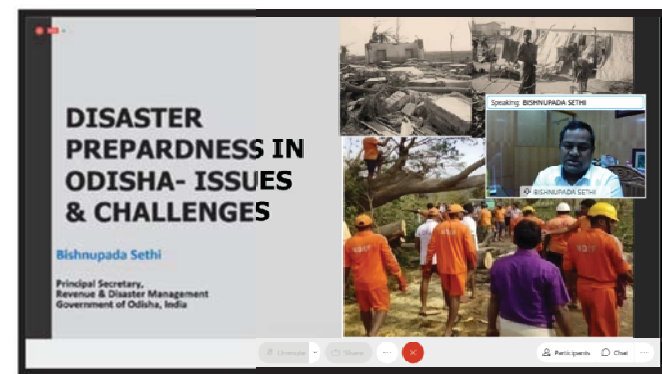
to help them develop their own perception.

- Though KIIT's contribution to the society at large cannot be quantified, yet KIIT has impacted every aspect of society. With the coming up of KIIT in the outskirts of the city, there has been a tremendous commercial and social growth in the area. The land price of Rs. 30,000 per acre in 1993 has now soared up to Rs. 20 crores today. A lot of shopping complexes, residential houses, hotels, restaurants have come up employing thousands and even generating huge revenue for the state. The idle youth often lured to crimes are now responsibly employed youngsters venturing out to lend their hands for the growth of the area. KIIT has employed 500 local youth as employees in KIIT. Besides, many

educational institutions have come up in the area too. The area abuzz with commercial activities has now employed thousands directly while KIIT has given direct employment to over 10000 people and 2, 00,000 people indirect employment as a result of which the following have taken place-Business activities have gone up, New educational institutions have come up, Generating huge Employment, Reduction in crime rate in the area, Land prices and the Infrastructure cost has gone up manifold. The once deserted outskirts have now become a city within the city of Bhubaneswar

- During the pandemic situation of 2020, KIIT has contributed predominantly towards the society in different aspects such as mobilizing adequate and well-directed financing– Reaching out to Good Samaritans, corporate houses, national and international organizations; KIIT and KISS has diversified work and mobilised financial and human resources for relief to the needy, distribution of hygiene products to women and girls, IEC material for wider dissemination (including in local and tribal languages) and setting up quarantine facilities and dedicated COVID-19 hospitals by utilizing the existing infrastructure

facilities. In partnership with Government, needs and requirements of people are being identified and feedback loop to the government for action has been established.

- Strengthening institutions for integrated solutions and effective implementation – KIIT and KISS are working with the state government and local self-government institutions (urban and rural) to find solutions for the present crisis. Apart from enabling the state government to utilise our existing infrastructure, both these educational institutions have bolstered local action by utilizing staff and students as a volunteer force across Odisha. In this process, strong communication packages are being implemented to reach the most vulnerable. Harnessing science, technology and innovation – The science and technology hub is devising innovative and sustainable solutions and influencing government strategies. Research partnerships with Universities of Cambridge and East Anglia are now focused on food futures – by using volunteers and IVRS platform for benefit of indigenous communities.

- KIIT has taken an innovative initiative under Community Engagement Cell (CEC) to develop some parts of the aspirational district, Kandhamal. It has adopted 12 Panchayat from the 12 Blocks to make it more habitable and comfortable for the people in their day to day life and with respect to employability. KIIT has been working relentlessly on this aspect now.

- Survey on 'Developing a sustainable model approach for self reliance of panchayats in Kandhamal district of Odisha- A study based on available natural resources, opportunities for execution and man power' has been conducted in Phulbani, Khajuripada, Daringbadi, Kanjamendi, Tumudiband, Gumagarh, R Nuagan, Kudutuli, Barakhama, Simanbadi Gram Panchayats. The project aims to impart skills to the youth and potential work force in the selected regions; convert marginal workers to main workers as much as possible and make the Gram Panchayats economically self reliant.

- The automobile society of the University has been working on the development of cost effective green vehicles powered by solar or electric power to launch them for affordable, pollution free commutation services. These vehicles have been deployed for testing within the University campus.

- The University has a lush green campus housing picturesque campuses, rose garden, sculpture park, a museum and a vast temple complex as attractions for visitors.

- The University's Medical College and Hospital, Dental College and Hospital were designed to be Medical Centres for the communities living around and beyond. 1750 bedded Super Specialty Hospital provides round the clock critical health services to the people with a provision of free OPD treatment to 2000 patients daily speak for it all. This multi-speciality hospital has made provisions for nearly 850 indoor patients to pay only Rs. 100 per day towards treatment, diet, cleaning and housekeeping expenses. Besides, there has been a blanket ten per cent discount.

- During the Corona Pandemic, KIIT has established 4 COVID-19 hospitals with necessary manpower and medical staffs in Bhubaneswar city and Kandhamala, Bolangir and Mayurbhanj districts. More than 15000 patients have been cured.

- KIIT has converted the village Kalarabank, situated in the district of Cuttack, 60 KM from Bhubaneswar as the only smart village in the country and the entire Panchayat (cluster of villages) has been developed into the Model Panchayat. City amenities have been created in this village and Panchayat which include High School (Residential), Nationalised Bank with Locker & ATM, Police Station, Post Office, vernacular residential school (Kalinga English Medium School), KIMS Rural Health Centre with Tele-Medicine Facility, Public Library, Public Park, Children's Park, Drinking Water Project, Concrete Road, Street Lights, Citizen Knowledge & Service Centre, etc.

- Research survey on various dimensions of occupational safety and health issues of construction workers in Odisha have been carried out to identify issues, challenges and suggest ways to address them has been conducted in 30 districts of Odisha. The project is funded by BG BAU, Germany amounting to 12000 EURO.

- International Conference on "Recent Developments in Sustainable Infrastructure (Research & Practices)" (ICRDSI 2020) was held on 19th December 2020 on hybrid mode and was attended by eminent persons from government sector, academia and industry, including many foreign delegates. Representatives

of several sponsoring companies have also participated. The three-day conference focused on sustainability of Civil Engineering Practices. Seven specific themes viz. (i) Blended Technologies in Civil Engineering, (ii) Sustainability in Geotechnical Engineering, (iii) Sustainability in Transportation System, (iv) Sustainability in Environmental Engineering, (v) Sustainability in Water Resources Management, (vi)Sustainability in Structural Engineering, and (vii) Sustainability in Construction Management were offered for discussion and inception of new knowledge.
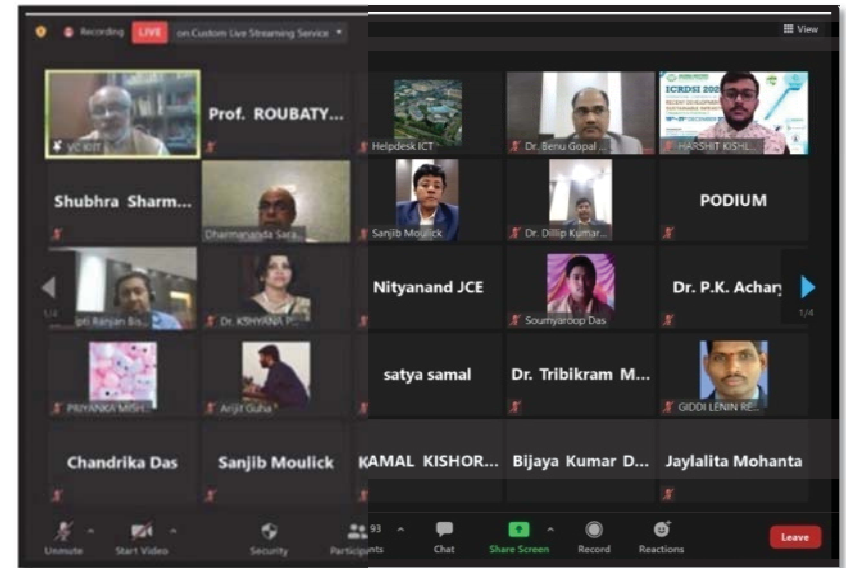
+ An Interdisciplinary project has been sanctioned by Bhubaneswar Municipal Corporation on Garbage Mining. BMC with focus on Garbage Mining, Estimation, Quantification, Characterization and Management. The project is being executed under the Principal Investigation of Prof. (Dr.) Biswabandita Kar, (School of Applied Sciences, KIIT); Dr. Bansidhar Mulia, HoD Plastic Surgery, KIMS; and Mr. Umesh Chandra Panda, consultant KISS. The overall execution is conducted under Sri R. N. Dash, Secretary, KIIT &

KISS and Prof. (Dr.) Sasmita Samanta, Pro Vice-Chancellor, KIIT Deemed to be University. The project is being executed including the multi-variant dimensions to make the city garbage free, clean and green.

🞣 Kalinga Institute of Industrial Technology, Deemed to be University has a continuing recycling program aligned with the Sustainable Development Goal 12 (Responsible Consumption and Production) defined by the United Nations Development Program. The program aims to recycle paper, plastic, non-decomposable and decomposable waste for benefit of the society and protection of the environment. https://kiit.ac.in/conservation-programs/

🞣 **Water Knowledge Centre:** KIIT has set up four Water Knowledge Centre in and around bbsr to create awareness of purification of water, preservation of natural water, harvesting of rain water and importance of good health, hygiene and sanitation. These centres are also collecting data on the ease of accessibility to clean water, water wastage rate and on ground water levels. These information will be used to analyse and predict water issues in days to come so that appropriate strategies can be put in place in an early stage to avoid adverse situations. https://kiit.ac.in/conservation-programs/

The University lays high emphasis on SDG 12 towards Responsible Consumption and Production and has undertaken several initiatives as mentioned below.

- The Biogas Development and Training Centre set up under the aegis and financial support of the Ministry of New & Renewable Energy, focuses on the R&D affairs in bio-energy and conducts awareness camps as well as skill development training courses in the rural locations of the designated states besides the on-the-field monitoring and inspection activities as per the guidelines envisioned in the National Biogas Manure Management Programme (NBMMP). Apart from these, the centre is also mandated to organize staff course and turn-key programmes on evolving latest technological trends in bio-energy and execution of those interventions at grassroots level.

- The University has strict policies to deal with wastes and hazardous chemicals from its chemical and medical units respectively keeping in view the SDG target 12.4.

- Energy audits in the University were carried out in 2020 similar to past year.

- E-Seminar on "Biomedical Waste Management in Context of COVID-19" was organized by School of Nursing Sciences (KINS) on 3rd October 2020 via Google meet. It was attended by about 200 participants, including faculty members and students.

- Kalinga Institute of Industrial Technology, Deemed to be University has a continuing recycling program aligned with the Sustainable Development Goal 12 (Responsible Consumption and Production) defined by the United Nations Development Program. The program aims to recycle paper, plastic, non-decomposable and decomposable waste for benefit of the society and protection of the environment. https://kiit.ac.in/conservation-programs/

The state of Odisha had been inflicted by different natural calamities in recent times, most of which are due to changing climatic conditions. The University has started taking novel initiatives under this circumstances to address SDG13. Some of the major initiatives are mentioned below

- Awareness camps were organized in different parts of the state on issues on global warming and climate change. This was conducted online by students from societies under KIIT Student activity center. 1000+ persons have been benefitted.

- 'ENACTUS KISS-KIIT' was an innovative initiative by some students of KIIT to improve the quality of life in society. Under the initiative, in 2016, Project SIDDHI was undertaken, which provided opportunity to the oppressed communities in and around Bhubaneswar to change their lives for the better and, in the process, eliminate the use of plastic bags by replacing it with handmade paper bags. This initiative is still active. It contributed in significant way in addressing the use of non degradable plastic bags with degradable paper bags.

- The automobile society of the University successfully worked on the development of cost effective green vehicles powered by solar or electric power and launched them for affordable, pollution free commutation services. These vehicles have been deployed for use within the University campus.

- 'Environmental Science' is offered as a mandatory course for the students of the University to emphasize on the rising issues about pollution and effect on climate.

National Webinar on "Challenges for NSS Volunteers in Climate Change: An Initiative from KISS & KIIT NSS Bureau" was held on October 22, 2020 on the occasion of the platinum jubilee celebration of the UN. It started with an enlightening talk by Prof. Gopal Krishna Panda, Senior ICSSR Fellow, PG Dept.of Geography, Utkal University, Bhubaneswar on the topic "Climate
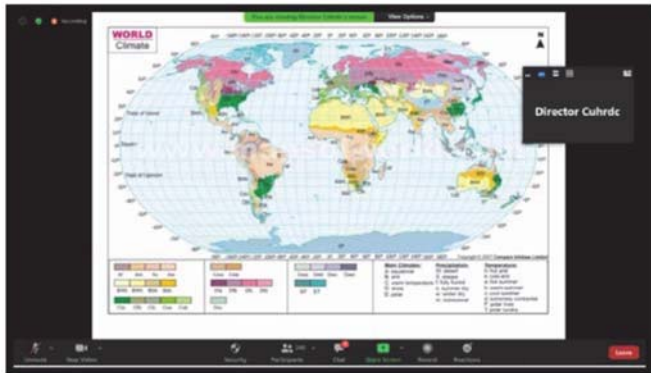
Change and Critical trends in Environment and Development". The second speaker of the session, Mr. Kailash Chandra Dash, Executive Director, RCDC expressed his views on "Climate Changes: Sea Level Rise Challenges and NSS Volunteers" where he discussed the rising sea levels which are leaving the coastal areas vulnerable. Prof. Pradip Mohapatra, Former Principal, BJB Autonomous College spoke on the topic "Human Impact on

Climate Change" and how it is our responsibility to take action. Prof. Lakshminarayan Satpati, Director Academics, Kolkata University spoke on "Climatology of the Tropical Cyclones - The Indian Context" where he talked about the different nuances of weather and climate and the reasons and science behind it. Dr. V.P. Upadhyay Advisor (Rtd), MoEF & CC, Govt. of India expressed his views on "Sustainable Ecosystem and Development issues".

Webinar on 'Disaster Risk Management in India: Issues and Challenges' was organized in partnership with KISS in association with Child Centric Disaster Risk Reduction (CCDRR), National Institute of Disaster Management (NIDM), Ministry of Home Affairs, Govt. of India on December 21, 2020.
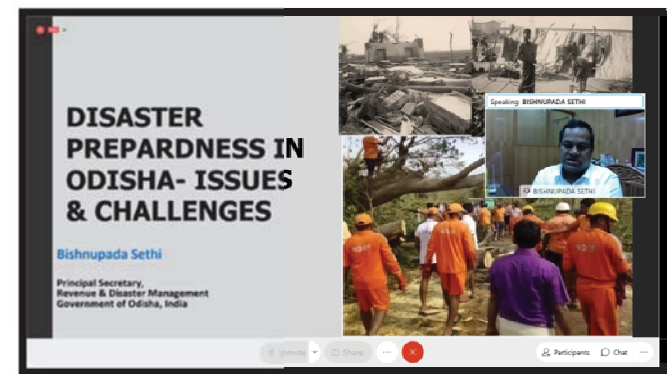
The University has undertaken several measures towards addressing the targets for SDG 14 as outlined below

- The University has been working on conservation of ecosystem in coastal regions in the state of Odisha along with several cleanliness drives along the beaches.
- National Webinar on "Challenges for NSS Volunteers in Climate Change: An Initiative from KISS & KIIT NSS Bureau" was held on October 22, 2020 on the occasion of the platinum jubilee

celebration of the UN. Mr. Kailash Chandra Dash, Executive Director, RCDC expressed his views on "Climate Changes: Sea Level Rise Challenges and NSS Volunteers" where he discussed the rising sea levels which are leaving the coastal areas vulnerable
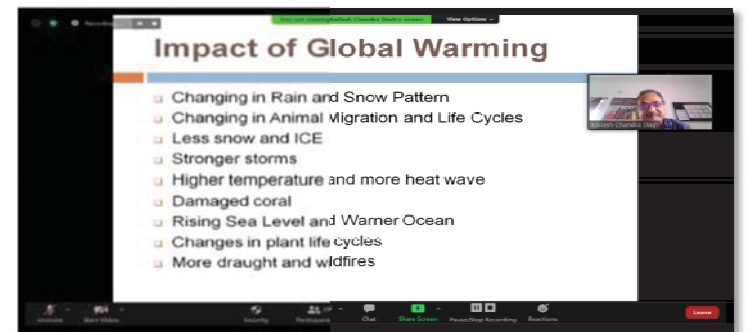
Prof. Gopal Krishna Panda, Geography Dept, Utkal University

🔸 Awareness camps were organized to spread the need for sustainable ecosystem in coastal areas. Initiatives are underway to reduce pollution/debris from coastal areas and sea water near to the beaches.

🔸 The Chilika Development Authority (CDA) in its objective to protect Chilika lake genetic diversity and effectively utilize the bio-resources has undertaken several long-term research initiatives in collaboration with reputed Indian institutes such as CIFRI, BNHS, IISER, RPRC, and Kalinga Institute of Industrial Technology. These studies are based on ecologically and economically vital component of Lake Ecosystem such as fishes, birds, macrophytes, benthos, and microbial communities of Chilika Lake The Chilika Development Authority and the KIIT School of Biotechnology have initiated a systemic approach to culture and characterize the bacteria from different sectors of lake as outlined below:

    i.   Documentation and conservation of bacterial resources

    ii.   Spatial and temporal dynamics of bacterial communities in context of nutrient cycling

iii.   Isolation of novel bacteria and enzymes useful in biotechnology industries

iv.   Monitoring of pollution and fecal indicator bacteria.

Cleanliness Drive

The School of Civil Engineering undertook numerous consultancy services on Material Testing (Concrete Mix Design, Quality testing of construction materials like Cement, Aggregates, Bricks, Tiles, Reinforcing bars & Ply, Soil Testing, Water Testing both for drinking purpose as well as concrete use (Mixing & Curing), Accelerated curing of concrete and Testing. In addition, the School also undertakes Structural Design & preparation of Drawing, Vetting of Structures, provides the Clients "Quality Engineers" for various works.

Webinar on 'Disaster Risk Management in India: Issues and Challenges' was organized in partnership with KISS in association with Child Centric Disaster Risk Reduction, National Institute of Disaster Management (NIDM), Ministry of Home Affairs, Govt. of India on December 21, 2020.

KIIT in association with Indian Science Congress Association (ISCA) Bhubaneswar Chapter observed World Environment Day on 5th June, 2020 in virtual platform. ISCA is a scientific platform where scientists, faculty members, research scholars interact, discuss and exchange their ideas. Expert lectures on the topics the topic 'Biodiversity, Pandemic & Human Health' and

'Biodiversity Conservation: a need of Present Day' have been delivered.

- NSS wing of School of Management conducted a webinar with the theme 'Celebrating Biodiversity' on 5th June, 2020 to celebrate World Environment Day. The topic of discussion was "Green Covers and Plantation". Keynote Speakers were (Prof). Kajal Parasar, Prof.(Dr)Abhishek Kumar, (Prof.)Biswajeet Patnaik along with Guest of Honour Director(Prof.) Saroj Mohapatra. Speakers with their inspiring views motivated the young minds. Around 300 students participated in the discussion and presented their views as well.

- NSS wing of Kalinga Institute of Dental Sciences, observed World Environment Day 2020, with the theme "AMA AASHA, AMA GACHHA". A Mega Plantation Drive was carried out with the help of the faculty & non teaching staff members of Kalinga Institute of Dental Sciences on this occasion.
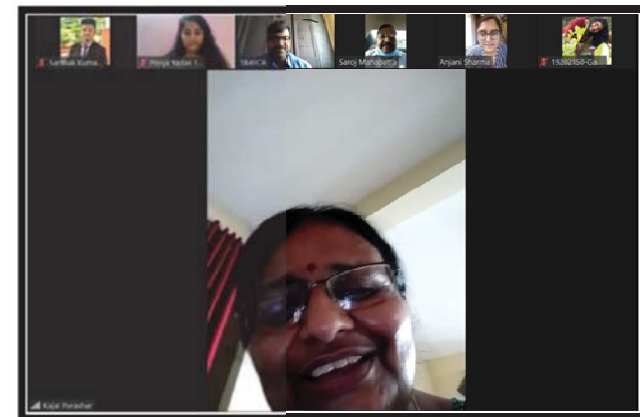
KIIT in association with ISCA BBSR Chapter observed World Environment Day
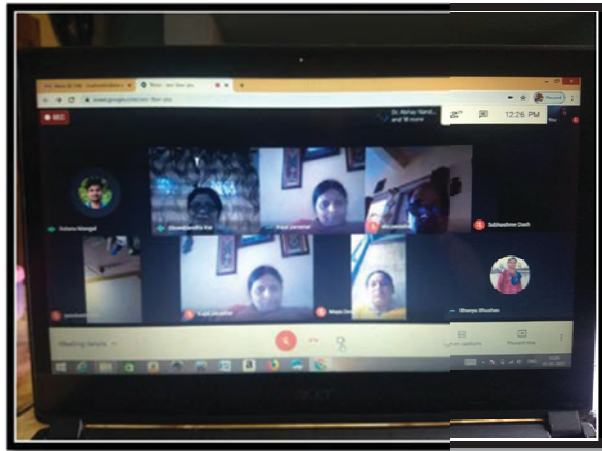
Webinar 'Celebrating Biodiversity'

🔸 NSS Bureau, School of Civil Engineering in association with Mahatma Gandhi National Council of Rural Education organized a one day workshop on World Environment Day with an aim to provide a master plan for Swachh Campus. Various strategies were discussed and proposed for bringing Environmental Sustainability to Campuses of KIIT. ~~Thus,~~ different strategies discussed to keep the environment clean were:- A cleanliness drive around the Campuses; providing dustbins at different places; creating awareness of "Reduce, Reuse and Recycle"; using least number of vehicles inside the Campuses to reduce pollution; planning for a Green Campus; sanitation and hygiene ; and water conservation.

🔸 Student members of the Khwaab Society, Student Activity Centre planted saplings at their home on the International Day for the Preservation of the Ozone Layer and spread the message that planting saplings/trees would provide carbon sequestration, aesthetic beauty and may be a cost-effective way to reduce ground-level ozone, a toxic component of smog that causes many deaths worldwide annually.
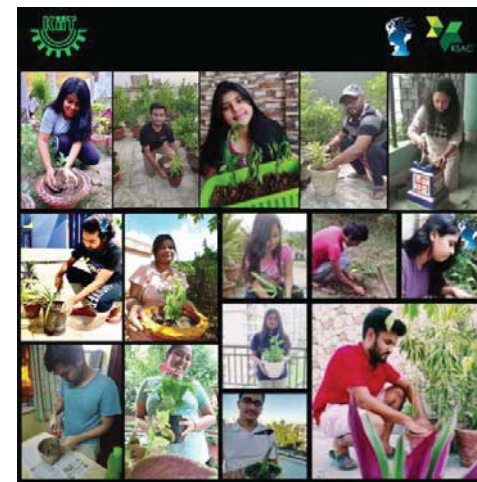
One-Day National Webinar on "Challenges for NSS Volunteers in Climate Change: An Initiative from KISS & KIIT NSS Bureau" was held on October 22, 2020 on the occasion of the platinum jubilee celebration of the UN. Prof. Gopal Krishna Panda, Senior ICSSR Fellow, Utkal University, Bhubaneswar spoke on the topic "Climate Change and Critical trends in Environment and Development". Prof. Lakshminarayan Satpati, Director Academics, Kolkata University spoke on "Climatology of the Tropical Cyclones - The Indian Context" and Dr. V.P. Upadhyay Advisor (Rtd), MoEF & CC, Govt. of India expressed his views on "Sustainable Ecosystem and Development issues".

Snapshots from the programme

Maintaining Peace and enforcing timely justice is essential for a developing society and the University strives to remain a strong institution contributing to this cause since its inception. Different initiatives and activities undertaken by the University are outlined in this chapter

- The Center of Excellence on Sustainability and Equity was established in 2019 to create awareness among its students, staff and general public about the needs and importance of sustainable development goals, their importance and impact on the progress of our nation. This Center of Excellence is working on gathering, measuring and analyzing data related to different sustainable development goals both at national level and international through its collaborations, partners, NGOs, surveys and research activities. It is also working towards more collaborations at national and international level, NGOs and corporate to frame policies and decide on plan of action to meet the goals associated with the SDGs.

- International Conference on Sustainability and Equity with the Theme - Digital Society was organized by the Sustainability and Equity Centre of Excellence from November 23-25, 2020. The subthemes of the conference are: Innovation, Digital infrastructure, Digital Skills, Health and Well-being, Digital space, data and Science, Digital citizenship behavior, and Digitalization of work and organization.

- The following centers of excellence have been reframed during 2020 and are working towards different targets set for SDG16.
    1. Centres of Excellence on Criminal Law and Criminal Justice Administration in collaboration with Bureau of Police Research and Development (BPR&D), Ministry of Home Affairs, Govt. of India.
    2. Centre of Arbitration having MoU with Centre of Arbitration, Miami University, USA
    3. Centre for Constitutional Law Studies and Research
    4. Centre of   for Criminology, Victimology and Police Science
- KIIT Legal Aid and Assistance Clinic have been working in the campus with an aim to provide free legal aid services to anyone and everyone who approached them. 3000+ people have benefitted in 2020.
- Wellness clinics have been established in the city of Bhubaneswar and several districts of the state by the University supported by its medical unit. These clinics provide services associated with naturopathy treatment, counseling services, rehabilitation and de-addiction therapy. So far, more than 2500 people have been cured of mental tension and severe addiction in 2020.

- Public Policy Research Centre had been established for impacting social and technical policy formulation process with an emphasis on good governance practices, efficient implementation mechanisms and evidence-based policy making. The centre conducts extensive research on social, political & economic policies and design strategies that can lead to change in public policy and governance.

- The World Leadership Academy has been established to provide a platform for global leaders where they will be able to address issues from diverse domains with intellectual freedom. This initiative also facilitates democracy in decision making ensuing in a value system and enhanced collaborations. The organization is also functioning to encourage diverseness in research, teaching and publication from all researchers and scientists. It plans to provide solutions to diverse global issues and create positive global impact. Policy support will be extended to the Government and non-government

organizations, educational institutions, industries, business and entrepreneurs as and when necessary.

- The Centre of Excellence on Happiness has been established with the vision to promote quality of life vis-à-vis happiness or subjective well-being among people. The learning of Happiness studies will provide participants with the requisite skill, knowledge, and attitudes for smooth sailing through the journey in life.

- 'Kanya Kiran' program had been launched in association with United Nations Women and Kalinga Fellowship. In a mobilization of scale and spread unheard of before, the program covered all the Panchayats of the State of Odisha in India, spreading awareness on gender equality, importance of women in society and social evils of violence against women and girl child among millions of households. Over 4000 staff of the University, particularly women staff was actively involved as coordinators and volunteers. They disseminated the message at household level in villages amid overwhelming response.

- The University was involved in expert opinion and advice through its involvement with a horde or national and international organizations under the umbrella of associations and councils. The University is member of Indian Science Congress Association, Indian Commerce Association, Indian Society for Technical Education, Indian Social Science Congress, Khelo India Organization and Association of Indian Universities (AIU) to name a few.

- Academicians of the University are members of different policy making bodies and those working under the aegis of the Government.

- The University was appointed as a mentor institute under the 'Paramarsh' scheme of NAAC (National Assessment and Accreditation Council) to extend all sorts of support to those institutions waiting for accreditation in different stages. 28 academic institutions have signed their MoU to be the mentee institutions under the 'Paramarsh' scheme of NAAC (National Assessment and Accreditation Council), and were mentored along with extending all sorts of support to those institutions waiting for accreditation in different stages.

- KIITTBI, an initiative of the University supported by Department of Science & Technology (DST), Government of India offers incubation facilities and enables the incubates to work in a secure, innovative and entrepreneurial environment as they progress through various stages of entrepreneurial development. The Technology Business Incubator (TBI), established with the view to serve as an Incubator for potential entrepreneurs, serves as a focal point for entrepreneur development, patent support, etc.

- Innovation Centre for Women, conducted developmental projects facilitating women entrepreneurship to stimulate the local women community towards rural entrepreneurship. Mentoring activities including help in formulating proper business model/ plan, product development, fund raising, fund management, developing marketing strategy and other related activities are being provided. Women Empowerment Seminars/ training programmes and Capacity building projects/ programmes for Women Entrepreneurs are being conducted. Awareness has also been spread among more than 5000 women who have already benefited.

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

- The University was involved in a large number of policy focused research in collaboration with government department/ organizations. More than 100 research projects in emerging areas and SDGs were ongoing in collaboration with government agencies like DST, DBT, BRNS, MNRE, ICSSR etc. List of major projects ongoing are provided in the appendix-VII.

- School of Rural Management (KSRM) conducted National Agribusiness Conclave 2020 on 18th January, 2020. The overall objective of the Conclave was to bring together policy makers, researchers, industrial leaders/practitioners and students to discuss issues, challenges and way forward on agribusiness and food processing sector in India. The conclave gave a unique opportunity to inquisitive minds to interact with and get inspired by the leaders. There were two panel discussions in

the Conclave. The themes for the panel discussions were: (1) Doubling Farmers' Income: Role of Agri Inputs; and (2) Effective Supply Chain Management for deriving value to Food Processing Industry.

- The following centers of Excellence pertaining to law and justice, have been revamped during the year 2020:

  - Centres of Excellence on Criminal Law and Criminal Justice Administration in collaboration with Bureau of Police Research and Development (BPR&D), Ministry of Home Affairs, Govt. of India.

  - Centre of Arbitration having MoU with Centre of Arbitration, Miami University, USA.

  - Centre for Constitutional Law Studies and Research.

  - Centre for Criminology, Victimology and Police Science.

- Various seminars, Conferences and events were organized in collaboration with government agencies with emphasis on policy focused research.

Round Table conference on Contemporary Constitutional Law Developments

- HRD Centre of Learning, KIIT Deemed to be University organized 3 sessions on various Labour Laws Reforms and Statutory Compliances. The Sessions were attended by diverse participants covering representatives of the Principal Employers, Vendors, Contractors and their representatives.

from senior government officials working on SDGs, planners, district level administrators, representatives from training institutions, researchers and civil society organisations engaged with the SDG Agenda in India to grass root level social workers, tribal leaders, and youth.
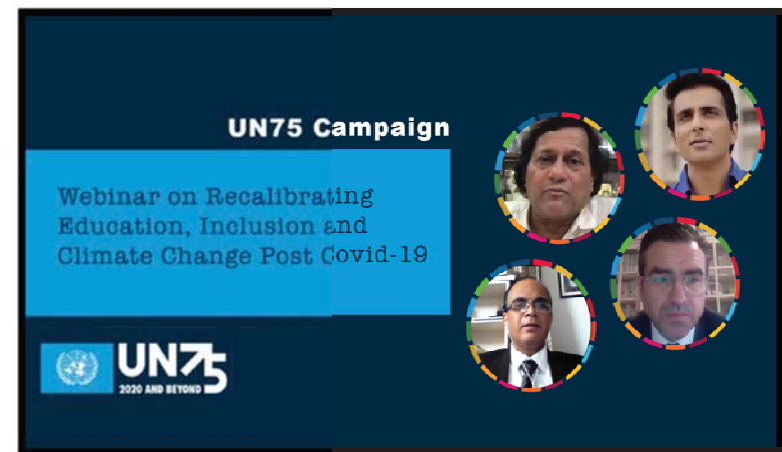
The topics on SDGs discussed were :

- ◆ Education, Literacy and Awareness :

  a) Career Augmentation for Tribal Youth interested in Civil Services & allied fields [webinar]

↓ KIIT in partnership with KISS had organized a week-long digital UN75 campaign from October 18th – 24th, 2020 to commemorate the 75th anniversary of United Nations. The aim of the programme was to amplify indigenous & youth voices while addressing key areas of Education, Inclusion and Climate Change through online dialogue & discussion as well as field level awareness campaigns while , adhering to Covid-19 health and safety guidelines. Each event provided a platform   to connect a variety of participants –

b) Indigenous Control of Education [focus group workshop]

c) Cognitive Learning through Language for Academic Proficiency for SDGs [webinar]

d) Youth Empowerment through Sports [Webinar]

e) Community Awareness on Covid19 through Sports

◆ Gender & Equality

a) Workshops on Gender Equity for female alumni with UN Women

b) Gender Sensitisation training for staff members with Kalinga Fellowship

c) Open Mic on 'Role of Women's Empowerment to Achieve Gender Equality'

d) No More Child Brides in Our Communities – My Life, My Decision [workshop]

e) Dialogues with young women leaders [webinar]

f) Happy Periods – Dignity for Girls & Women [workshop]

g) Film "Nua Maa-A New Transformation : Story of a transgender Lovely" [E-Release]

h) Discussion on UN75 in Santhali Lnaguage

◆ Nutrition:

a) Delivery of Key Messages on MCHN (Mother & Child's Health & Nutrition), during Covid-19, in tribal pockets of Odisha

b) 'SDGs in the time of Corona Pandemic' on 'Millet Mantra'

c) SDGs in the time of Corona Pandemic' on Nutrition – 'Maggi verus Ragi!'
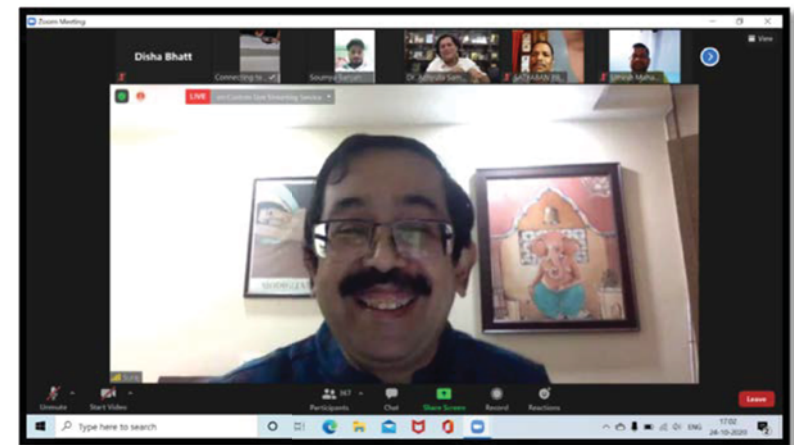
◆ Climate Change:: Climate Action : Individual Action and Community Response
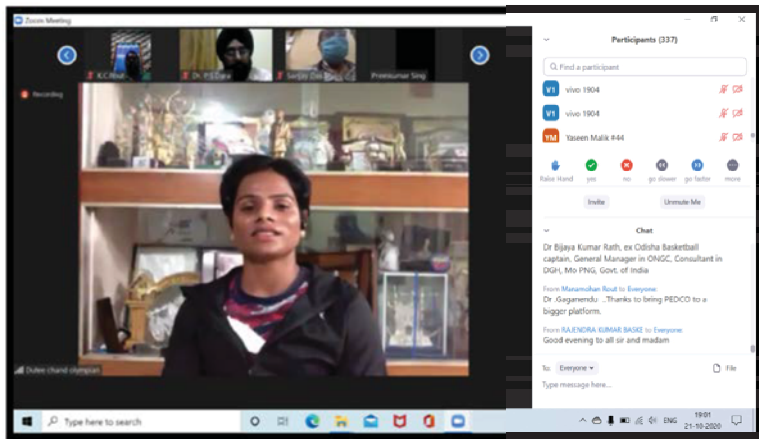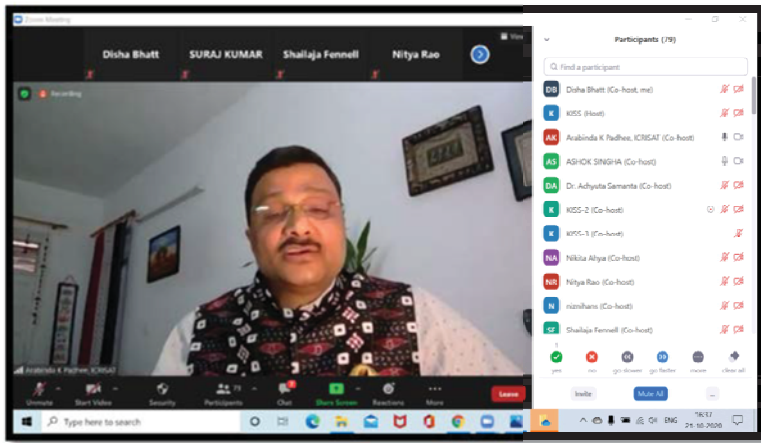
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➕ **Webinar on National Education Policy 2020**. International Webinar on National Education Policy 2020 (NEPCON 2020) inaugurated by Ramesh Pokhriyal 'Nishank', Hon'ble Minister of Education, Govt. of India, was organised from August 28-30, 2020. The inaugural session of the three-day webinar was also graced by Prof. Achyuta Samanta, Founder, KIIT & KISS; Prof. Anil D. Sahasrabudhe, Chairman, AICTE; Prof. D. P. Singh, Chairman, UGC; Mr. Amitabh Kant, CEO, NITI Aayog; Dr. Pankaj Mittal, Secretary-General, AIU; Prof. Ved Prakash, Chancellor, KIIT DU; Prof. Hrushikesha Mohanty, Vice Chancellor, KIIT-DU; Prof. T. V. Kattimani, Vice Chancellor, Central Tribal University; and Prof. Sasmita Samanta, Pro Vice Chancellor, KIIT-DU. Odia translation of "Perfect Success Mantras", a book by Dr. Ramesh Pokhriyal 'Nishank' was also released on the occasion. Titled "Siddha Safalta Mantrabali", the translation was done by eminent litterateur Mr. Haraprasad Das. The subthemes of the webinar included:

- Restructuring for Autonomy, Integration and Diversity
- Governance & Leadership
- Equitable and Inclusive Education
- Self-Employment & Employability
- Community Engagement
- Expand Research, Innovation, and Entrepreneurship
- Regulatory Changes and Role of Apex Regulatory Bodies
- Funding and Financing of Educational Institutions under NEP
- Implementation strategies and role of Government
- NEP and the new Value system
- Innovative and responsive pedagogy
- Continuous Learning
- Internationalization of higher education
- Restoring integrity to teacher education
- Multidisciplinary colleges and universities
- Teacher preparation and continuous professional development
- Open Learning Education- School Education, Higher Education, Professional Education, Vocational Education, Technical Education.

This was a first of its kind meet on the NEP 2020, bringing 30000 students, educationists, policymakers and intellectuals from 50 countries on a common platform. More than 100 research papers were received and published as part of the proceedings. The weblink of the programme:https://event.kiit.ac.in/nepcon2020/

✦ New Collaborations:

◆ MoU signed with National Highway Authority of India (NHAI), Ministry of Road Transport & Highways, Govt. of India for improvement of road infrastructure on 18th August 2020.

◆ MOU signed with Ernst & Young LLP, India on March 4, 2020 as a part of the vision 'Swachh Odisha Sustha Odisha' of the Hon'ble Chief Minister of Odisha by adopting sanitation through Faecal Sludge and Septage Management (FSSM). The partnership focuses on two areas: (1) Urban FSSM Fellowship Program to support at program delivery at district level (2) Technical support through R&D to identify improvement in existing FSSM infrastructure, Inclusion of FSSM in academic curriculum and Training infrastructure to conduct FSSM programs.

Kalinga Institute of Industrial Technology

◆ MoU with Logistic Sector Skill Council, Government of India to offer Apprenticeship-based BBA Degree Programme in Logistics and Apprenticeship-based BMS Degree Programme in ECommerce Operations from the year 2020. Details available at https://kiit.ac.in/mou/mou-kiit-lssc/

✚ School of Law organised Round Table on Contemporary Constitutional Law Developments on 18th and 19th of January, 2020. In the event, four practicing lawyers and one professor shared the knowledge on the respective subjects: Religious Customs and Fundamental Rights by Adv. J Sai Deepak; Transformation and Evolution of Determining Backwardness in Reservation System by

Sr. Adv. Yashowant Das; of the Constitution 103rd Amendment Act, 2019 by Sr. Adv. (Dr.) Aditya Sondhi; Right to Information (Amendment) Act, 2019 by Prof. (Dr.) Madabushi Sridhar and lastly Decriminalization of Section 497 of IPC by Adv. Kaleeswaram Raj.

✚ The University collaborated 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 Koushalya Yojana.

- The University had collaborated with All India Council of Technical Education to conduct Skill Development Program under Pradhan Mantri Kaushal Vikas Yojana Scheme.

- The University had collaborated with Royal Government of Bhutan to conduct skill development programs for the potential Youth of Bhutan.

- The Kalinga Fellowship is an initiative bringing together eminent leaders from business, Government, academia and civil society to engage in deliberations and contemplation on issues and policies to combat trafficking of women and children. Initiated by three partner organizations, 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.

- Several Centers of Excellence have been established in the University in collaboration with industry; working on several SDGs. Details are available in Appendix-V.

- The University was also involved in dialogues with different embassies and embassy representatives visit annually 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.

- 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). List attached as Appendix.- VIII.

- School of Public Health has also become active member of two of the regional associations - Asia-Pacific Academic Consortium for Public Health (APACPH) and South East Asia Public Health Education Institutions Network (SEAPHEIN) in 2020. APACPH encourages and supports the achievement of the following objectives through its member institutions- To enhance the quality and relevance of educational and training programmes in public health; To expand knowledge, improve skills and demonstrate effective interventions; To raise awareness, of current, emerging, and re-emerging public health issues and develop programmes of action for their resolution; To enhance the capacity and sustainability of public health systems; and To assist in policy and leadership development for health. The objective of SEAPHEIN is to promote public health and improve quality of public health education and training through capacity building of faculty in Public Health Institutions of the WHO South East-Asia Region.

- The University is an academic partner of the Institution of Engineering and Technology, UK since 2017. Details available at https://www.theiet.org/involved/partnerships/academic-partners/academic-partnership-in-india/

- Different research projects at advanced level are being carried out to address technical advancements, sustainable technology, innovation that may lead to industrial revolutions, smart cities, clean and green energy, good health and well being and also, on social issues and related policy development in the national context.

- Major Collaborative Projects undertaken:

  - A remarkable review of the effect of lockdowns during COVID-19 pandemic on global PM emissions (PIs & CO PIs: Swarup Nayak (KIIT), V.V. Le; Maritime Institute, Ho Chi Minh City University of Transport, Ho Chi Minh City, Viet Nam; T.T. Huynh; Institute of Engineering, Ho Chi Minh City University of Technology (HUTECH), Ho Chi Minh City, Viet Nam; A.T.Le; School of Transportation Engineering, Hanoi University of Science and Technology, Hanoi, Viet Nam)

  - Opportunities for Biodiesel Compatibility as a Modern Combustion Engine Fuel. (PIs & CO-PIs: Prof. Swarup Nayak & Prof. P C Mishra (KIIT); Dr. Sonil Nanda; The

University of Western Ontario, London, Canada; Dr. M.M.Noor; Faculty of Mechanical Engineering, Universiti Malaysia Pahang, Pekan, Pahang 26600, Malaysia)

◆ Biomass-derived 2,5-dimethylfuran as a promising alternative fuel: An application review on the compression and spark ignition engine (PIs & CO PIs: Swarup Nayak (KIIT); Dr. Xuan PhuongNguyen; Institute of Maritime, Ho Chi Minh City University of Transport, Ho Chi Minh City, Vietnam; Dr. Van Viet Pham; Ho Chi Minh City University of Transport, Ho Chi Minh City, Vietnam; Dr. Aykut I. Ölçer; Head of Maritime Energy Management, World Maritime University, Malmö, Sweden)

✚ KIIT student societies had active collaborations with following NGOs in the state: Niyatee Foundation, Daya, Aaina and Udyog Foundation

✚ KIIT in collaboration with KISS, Sakha and Azim Premji Philanthropic Initiatives distributed ration and essential items for the transgender community in Bhubaneswar, Rayagada and

a few districts of Odisha during COVID 19 nationwide lockdown.

✚ Art of Giving is all about creating an unconditional and sustainable abundance of love, peace and happiness and contentment for others through gestures of kindness and generosity. It was founded by Shri Achyuta Samanta on 17 May 2013. The key to peace and happiness lies in unlocking the Art of Giving in each individual. It is a not-for-profit initiative for spreading, supporting and promoting the practice of the art of giving around the world. International Art of Giving Day is being celebrated all over India and 120 countries across the globe spreading over 20000 center,

Kalinga Institute of Industrial Technology

This year the occasion was planned keeping covid pandemic in mind and following covid guidelines, https://artofgiving.in.net/aog2020/
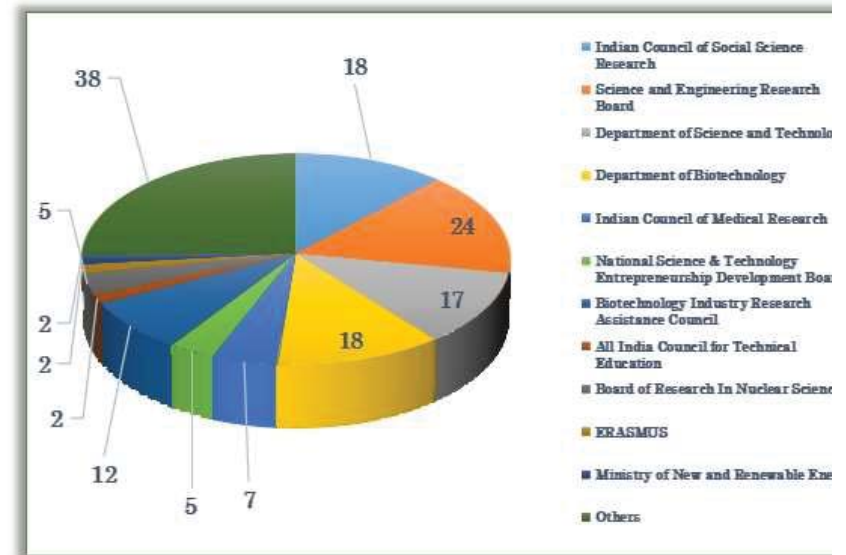
- Different research projects at advanced level have been carried out to address technical advancements, sustainable technology, innovation that might lead to industrial revolutions, smart cities, clean and green energy, good health and well being and also, on social issues and related policy development in the national context. An overview of the number of ongoing projects with different agencies is given below:

Conclusion

The University's motto and belief in 'Education for All' has immense effect in the development of the indigenous communities and is successful in producing skilled and responsible workforce for the country who are expected to contribute to the nation and the world in attaining the SDGs through their profession, practice and beliefs in near future. It is believed that education is a powerful tool to achieve the targets set for various SDGsand it is continually engaging in different activities to reach out to all segments of the society in this regard.

The University's Center of Excellence for Sustainability and Equity has been specially established to frame policies and strategies in contributing to the Sustainable Development Goals through multifarous initiatives. Strong focus is being given to research activities in social science, human life, environment and science and technology in those directions that will help in attaining the targets set for 2030. The Center of Excellence is also working with the Community Engagement Center of the University to extend its reach not only in he

state but also across the country. The University aims to continue working for the benefits of the society in alignment with the various Sustainable Development Goals (SDGs) of the United Nations.

The University is also working in close association with its sister organization, Kalinga Institute of Social Sciences, the internal student societies and the Government in this direction to contribute to the attainment of the sustainable development goalThe University's community engagement policies and activities are oriented towards attaining Sustainable Development Goals (SDGs) It is believed that education is a powerful tool to achieve the target set for various SDGsand it is continually engaging in different activities to reach out to all segments of the society in this regard.

The University aims to work for the benefits of the society in alignment with the various Sustainable Development Goals (SDGs) of the United Nations.

The University works in close association with its sister organization, Kalinga Institute of Social Sciences, its internal societies and the Government in this direction to make the feat a reality.

Output

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 37 CoEs functional
Dedicated SDG centre	1.5 lakh + people benefited
Offering Skill development programmes	5000+ students benefited
Kanya Kiran Programme	35000+ people motivated
Art of Giving	35 million + benefited (till date)
Compassionate Integrity Training	300+ people motivated
Capacity building programme	1000+
Mentoring under paramarsh scheme	28 Institutions

Appendices

Appendix I: : KISS and its branches

- Kalinga Institute of Social Sciences – KISS, Bhubaneswar, India is a fully free, fully residential home for 30000 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. Details can be found at URL link: https://kiss.ac.in/about/ . The University plans to educate 2,00,000 indigenous (tribal) children over the next decade and in the process of setting up branches in 10 states, with the support of respective state governments, and in all 30 districts of Odisha. Students are high achievers in academics, co-curricular activities and national and international sports, making it a highly successful model of tribal empowerment through education. KISS has so far set up centers in Delhi, Mayurbhanj, Balasore are currently functioning.

- KISS Delhi https://www.kissdelhi.ac.in/ is a joint venture of Govt. of National Capital Territory (NCT) of Delhi and KISS Bhubaneswar to provide quality education and vocational training to the children belonging to the economically weaker section of the society and orphans is a fully free residential school presently has student strength of 1200 and imparts education from Class I to Class XII under Central Board of Secondary Education (CBSE) curriculum. The School is fully supported by the Govt. of Delhi and managed by the Chief Executive Officer, KISS Delhi and his team very successfully.

- Set up in Baripada in association with Adani Foundation, Ahmadabad (https://www.adanifoundation.org/), KISS - Mayurbhanj provide quality education to the underprivileged tribal children of the tribal dominated district as well as neighboring districts.

- 'Oswal- KISS Residential School' has been established in Bolangir,Odisha in association with Oswal Group (http://www.oswalgroup.com/). The School will provide quality education to the underprivileged tribal children of the district and adjoining areas.

- Recognizing the success of KISS model in Bhubaneswar, Bangladesh is all set to replicate a congruent version of it in Dhaka and Jessore. Branch at Dhaka is being set up in association with Daffodil International University, Dhaka. Jessore Branch is supported by 'Banchte Shekha', a leading NGO led by Dr. Angela Gomes, Ramon Magsaysay Laureate. KISS shall provide technical and managerial support for the functioning of the two branches.
- A new branch of KISS is being established in Kolkata, West Bengal, in collaboration with 'Help Us Help Them', a Kolkata based NGO that promotes the same cause. The school shall be a residential school for over 1000 children and will have the same structural model as KISS.
- Emami KISS Residential School is a joint venture with Emami Group (http://www.emamiltd.in/). Modeled along the lines of the original, innovative campus at KISS, it will function as a residential academic centre providing holistic education, accommodation, food, health care, study material and sports training to its students free of cost.
- Faculty members and students from Kalinga Institute of Industrial Technology, regularly visit KISS branches to contribute in academic activities and educational ventures to its students round the year.

Appendix II: Guest Lectures, Seminars ,Workshops, Conference

Event type	Topic	Starting date	Participants
Seminar	Personality Development	01.12.2020	1307
Seminar	Ending the HIV/AIDS epidemics: Resilience Impact	01.12.2020	1255
Talk	Reduced Inequalities in Educational Opportunities: A Case Analysis of KIIT University	09.12.2020	1935
Webinar	Environmental Humanities: Narratives and Critical Practices	11.12.2020	433
Conference	Advances in Mechanical and Industrial Engineering	11.12.2020- 13.12.2020	448
Conclave	Marketing@New Normal	12.12.2020	1174
Webinar	Alumni Interactive session	12.12.2020	1272
Ceremony	From Text to Visual Arts: Emergence of Film Theatre and New Media	12.12.2020	524
Conference	Advances in Mechanical and Industrial Engineering	13.12.2020	720
Workshop	Podium 2020, a Debating competition	13.12.2020	1879
Talk	AI Application in Power and Energy Engineering	14.12.2020	1999
Webinar	School-wise Placement Training Orientation Program	16.12.2020	1813
Conclave	Re-imagining Opportunities in the Shadow of Uncertainty: An Emerging Economy Perspective	17.12.2020	582
Talk	Agribusiness Leaders	17.12.2020	889
Conference	Recent Developments in Sustainable Infrastructure	19.12.2020	1482
Talk	Deep Learning Concept and Its Formulation	19.12.2020	1509
Workshop	Imbibe research culture to empower Nursing Professionals for imparting quality Health care	19.12.2020	592
Conclave	Transforming Businesses using Data	20.12.2020	918

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Faculty Development Program	Artificial Intelligence	21.12.2020-25.12.2020	1736
Webinar	Post Pandemic Dynamics of Lives & Livelihood: Towards Effective Coping	26.12.2020	684
Webinar	Risk Management and Prevention of Antibiotics Resistance - PREVENT IT	27.12.2020	1350
Conference	Ancient Mathematics & Science for Computing 2K20	27.12.2020	1809
Talk	The real danger is not paucity of news but abundance of news	01.11.2020	1053
Webinar	Values of NAAC Annual Quality Assurance Report-21	01.11.2020	1579
Workshop	Basics of Finance and Current Economic Trends	01.11.2020	1681
Observation	World Vegan Day 2020	01.11.2020	1236
Webinar	Internalization of Quality Culture and Institutionalization of the Best Practices	03.11.2020	1855
Webinar	Simplifying Personal Finance & Investing	05.11.2020	340
Workshop	Big Data	06.11.2020	1582
Webinar	Blended Framework of Teaching and Learning	07.11.2020	835
Talk	Cognitive Computing: Open Research Challenges"	07.11.2020	1078
Webinar	cancer awareness programme	07.11.2020	954
Observation	National Tooth Brushing Day 2020	07.11.2020	1847
Talk	Healthy Eating and Healthy Living during and post COVID-19 pandemic	08.11.2020	1520
Workshop	Cloud Computing	10.11.2020	1368
Webinar	International Webinar on Advances in Optimization Techniques	11.11.2020- 13.11.2020	1401
Webinar	World Science Day	11.11.2020	1700
Workshop	SWAYAMNPTEL Courses	16.11.2020- 17.11.2020	1064

Workshop	Basics of Marketing and Why Brands Fail?"	16.11.2020	1442
Talk	'Perspectives in Development	17.11.2020	1290
Webinar	KIDS Webcon Chapter-3	20.11.2020	339
Webinar	Mutual Fund Expert Speak Session	21.11.2020	1419
Workshop	Healthcare 3D Printing and its Engineering Applications	22.11.2020	465
Staff Development Program	Training Programme on Advanced Computer Skill	23.11.2020	921
Conference	International Conference on Thermofluids	23.11.2020	1208
Webinar	Infection Control Week	23.11.2020	1275
Webinar	HR Transformation with Elements of Organization Design,Compensation & Benefits (Rewards) and Talent Management	03.10.2020	1876
Webinar	Recent Trends in Antenna Technology for Modern Day Communications_x005f_	03.10.2020	452
Webinar	Getting started with open source	03.10.2020	538
Seminar	Biomedical Waste Management in Context of COVID-19	03.10.2020	769
Conclave	Digital Data Science Conclave 2020	04.10.2020	1791
Webinar	Exploring Ph.D. Opportunities in French Universities	06.10.2020	1471
Webinar	New Education Policy 2020	08.10.2020	1968
Webinar	8th PSSI-Plasma Scholars Colloquium (PSC-2020)	09.10.2020	1889
Webinar	Agri-Value Chain	09.10.2020	1808
Webinar	Methods, Tools and Techniques in the Current Research: Linguistics and Beyond	09.10.2020	940
Webinar	Mental Health	10.10.2020	967
Webinar	Reforms Envisaged by the New Labour Codes - Varied Perspectives	10.10.2020	398

Webinar	Responding to Succeed in the VUCA World	10.10.2020	1030
Talk	Agile Recruiting	10.10.2020	1280
Webinar	Autonomic Function Testing: Clinical and Research	10.10.2020	1860
Conference	Frontiers in Manufacturing Technology (FMT-2020)	13.10.2020	351
Faculty Development Program	Artificial Intelligence in Natural Language Processing	15.10.2020	1194
Webinar	Agri-Value Chain	16.10.2020	305
Webinar	Project Expo e-Proceedings	17.10.2020	850
Talk	Diversity and Inclusion Best Practices in Talent Acquisition	17.10.2020	820
Seminar	Inter-University Deliberations	19.10.2020	1455
Webinar	Role of Women Empowerment	21.10.2020	1986
Webinar	Challenges for NSS Volunteers in Climate Change: An Initiative from KISS & KIIT NSS Bureau	22.10.2020	680
Webinar	Dialogue on Integration of Sports at UN75	22.10.2020	1081
Seminar	KIDS Webcon Chapter-2',	30.10.2020	328
Observation	Rashtriya Ekta Diwas	31.10.2020	886
Webinar	GRE Preparation & Opportunities for Engineering Graduates	02.09.2020	329
Webinar	IR aspects during and post lockdown for blue collared employees in the infrastructure Sector	05.09.2020	1065
Faculty Development Program	Learning in Virtual Medium	05.09.2020	668
Webinar	National Education Policy (NEP)	05.09.2020	1872
Observation	Celebrates Teachers' Day	05.09.2020	1199
Webinar	Protection of Smart Grid' and 'Signals & Biomedical Applications	06.09.2020	670
Webinar	'Start-Ups & Entrepreneurship' and 'ML Fundamental, Problem Solving & Industry APPLICATIONS	09.09.2020	1511

Webinar	Re-think, Re-shape, Re-align the Skill-set with the New Avenues during Covid-19	10.09.2020	1655
Faculty Development Program	Advanced Techniques in Designing MOOCs	12.09.2020	1725
Conference	Emerging Frontiers for Healthcare and Delivery	12.09.2020	1219
Workshop	communication workshop	13.09.2020	1180
Seminar	e-Seminar to Observe Newborn Care	15.09.2020	1032
Seminar	*Emerging Trends, Career Opportunities and Current Practices in Nursing*	17.09.2020	912
Webinar	RTGFTA-2020	18.09.2020	1708
Talk Series	The Politics of Voice - The struggle for just and equitable representation in media"	19.09.2020	1077
Seminar	Synthesis of Platinum Metal Complexes and their Utilization in Catalysis	19.09.2020	1817
Conference	Role of NSS in COVID-19" (RNC -2020) and Pre-Conference Virtual Workshop on "Challenges in COVID-19 for NSS Volunteers	19.09.2020	801
Webinar	Yoga, Meditation and Nutrition: The Key Ingredients for Immunity Enhancement	24.09.2020	1453
Webinar	Coping with Stress during Covid-19	24.09.2020	1669
Webinar	Fashion Product Development	25.09.2020	487
Webinar	Interdisciplinary Perspectives of Digital Humanities	25.09.2020	1585
Webinar	Interdisciplinary Perspectives of Digital Humanities	25.09.2020	1015
Webinar	Curriculum Implementation Support Programme-2	26.09.2020	1889
Conference	International Guest Lecture	28.09.2020	1161
Talk	Use heart to beat Cardiovascular diseases	30.09.2020	668
Webinar	Achieving Automation Goal with AI Strategy	01.08.2020	811
Webinar	Financial Services and Inclusion	01.08.2020	1206

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Webinar	Time-Frequency Analysis Techniques	01.08.2020	1462
Webinar	Support Breastfeeding for a Healthier	03.08.2020	1602
Webinar	Impact of COVID-19 Pandemic on the Future of Study Abroad EDUCATION	07.08.2020	1144
Talk Series	Like Politics, Can the Media also be Democratic?	08.08.2020	479
Webinar	'NEP 2020, Sports Integration & Future Roadmap for Education in India	08.08.2020	1768
Webinar	Child Sexual Abuse and POCSO Act 2012	08.08.2020	1302
Webinar	Mini Symposium on COVID-19	08.08.2020	1665
Webinar	COVID-19 Awareness Programme	09.08.2020	696
Webinar	Cracking UPSC@IAS/IPS	10.08.2020	1814
Talk	Application of High Voltage for Air Pollution Control	12.08.2020	1871
Webinar	Industry Expectations from an Engineering Graduate	13.08.2020	1703
Conference	Emerging Smart Materials in Applied Chemistry	13.08.2020	1125
Webinar	'CSR and Development	14.08.2020	1616
Webinar	Counselling Session on Covid-19	14.08.2020	302
Webinar	'Intellectual Property Rights (IPR) Filing	15.08.2020	332
Webinar	Storm Water Management: Current Practices and SOLUTIONS	16.08.2020	525
Conference	Communications, Circuits and Systems	16.08.2020	1795
Workshop	Algorithm and Problem Solving Skill for K200 Students	17.08.2020	1480
Webinar	Internet of Things(IoT) and Wireless Sensor Networks	17.08.2020	1372
Webinar	RDNT-2020	17.08.2020	623
Webinar	Advances in Current Fed Power Electronics Systems	18.08.2020	977
Webinar	CSR and Development	21.08.2020	954

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Ceremony	KGPF 2020	22.08.2020	525
Workshop	Modern Instrumentation and Control	23.08.2020	1586
Webinar	MBA for Engineers	26.08.2020	1607
Conference	International Virtual Conference on Advances in Functional Materials (AFM 2020)	26.08.2020	1087
Seminar	Contemporary Issues in Community Health	27.08.2020	851
Seminar	Contemporary Issues in Community Health Nursing	27.08.2020	1523
Conclave	Role of Digital People Technology in manufacturing	28.08.2020	1522
Conclave	Building Culture of a Digital Future Challenges Here and Now	28.08.2020	1184
Conclave	The Future is Now – Rewiring the Workplace	28.08.2020	511
Webinar	National Education Policy (NEP) 2020	28.08.2020	32000
Conclave	Will People-Grid Reinvent the Smart Grid	28.08.2020	804
Conclave	People's Perspective and Cultural Perspective	28.08.2020	529
Conclave	Mega Digital 'HR Konclave	28.08.2020	1473
Conclave	Power Electronics in Hydro-Electric Systems: Configurations,Challenges, and Future Scopes	29.08.2020	1473
Conclave	Global HR Strategies for Gen Z	30.08.2020	1883
Talk	Changing Consumption Pattern and Emerging Opportunities for Mass Media	30.08.2020	1747
Workshop	-Workshop on Red Cameras	31.08.2020	556
Webinar	IOT & Advanced Technologies in Home and Building Automation Energy Management and Industry 4.0	01.07.2020	492
Webinar	Get Real in the Virtual World	04.07.2020	1137
Webinar	Entrepreneurship opportunities during and post COVID	06.07.2020	727
Conference	Recent Developments in Organic and Applied Chemistry	06.07.2020	1575

Webinar	Multi-disciplinary Research Networking	14.07.2020	969
Webinar	Knowledge Forum-A Guide to your Future Lecture Series	19.07.2020	1256
Faculty Development Program	Advanced Materials (Fabrication, Characterization, and APPLICATION	20.07.2020	1052
Webinar	covid 19 counseling sessions	21.07.2020	1565
Webinar	Preparation for Competitive Exams	25.07.2020	1690
Webinar	Deep Learning Approaches for Natural Language Processing	25.07.2020	1207
Webinar	CSR and Development	28.07.2020	1517
Webinar	Child Sexual Abuse	29.07.2020	786
Seminar	WEBCON 2020	29.07.2020	1506
Talk	Environmental Justice: An Eco_x005f_feminist Perspective	30.07.2020	1822
Seminar	COVID 19: Psychological Issues and Coping	30.07.2020	1911
Webinar	Green Covers and Plantation	05.06.2020	1082
Webinar	Alumni Meet with ICE KIIT Student	05.06.2020	1530
Workshop	World Environment Day	05.06.2020	1220
Conference	"Introduction to ICE Learning Hub"	09.06.2020	699
Workshop	In-house Basic Course Online Teaching Program organized	16.06.2020	1619
Webinar	Unraveling: Vocal about Local	21.06.2020	908
Faculty Development Program	Blended Learning	22.06.2020	368
Faculty Development Program	*Handicraft & Handloom for Sustainable Employment generation in Rural India*	25.06.2020	1765
Webinar	Regenerative Economy & Market System Approach for Atmanirbhar Bharat	27.06.2020	1281
Webinar	'New-normal life in virtual world: Issues, Challenges & Way forward	29.06.2020	1179

Workshop	In the Game of Research Publication: Where do we go wrong?	30.06.2020	1105
Conference	COVID-19: LIVES AND LIVELIHOOD	05.05.2020	1045
Webinar	Career Development	09.05.2020	1400
Webinar	Role of Nurses in management of Covid-19	11.05.2020	1164
Seminar	Explore Creativity Through Creative Tool Box	23.05.2020	1497
Observation	Marathon KONVOY 4.0	05.03.2020	667
Observation	Mega Naturopathy CAMP	05.03.2020	1496
Seminar	Inclusiveness of the Differently Abled- Challenges and Opportunities in India	05.03.2020	1315
Conference	Emerging Trends and Advances in Electrical Engineering and Renewable Energy (ETAEERE-2020)	05.03.2020	1626
Workshop	Women's Safety Workshop	06.03.2020	1855
Talk	Small Community Water and Wastewater Treatment	07.03.2020	1709
Workshop	Women Empowerment	09.03.2020	1024
Seminar	Corona Virus - A Global Threat	01.02.2020	502
Talk	BUDGET 2020-2021	03.02.2020	749
Workshop	Capacity Building Workshop for Women Entrepreneurs	04.02.2020	1772
Talk	Unburdening the Burden" and "Stress-free Living	04.02.2020	1181
Conference	ORACON 2020	04.02.2020	1134
Ceremony	NSS SPECIAL CAMP --2020	05.02.2020	1801
Workshop	ARCHUMEN'- India's biggest Architectural Quiz	05.02.2020	1458
Workshop	Budget for the financial year 2020-21	06.02.2020	1222
Webinar	Prevention of Corona Virus	07.02.2020	1729
Seminar	Global Internship Forum	09.02.2020	1336
Talk	TEDx	11.02.2020	1373

Seminar	Union Budget 2020	11.02.2020	1252
Seminar	Implications of Artificial Intelligence on Indian Corporates	12.02.2020	984
Webinar	Researchers must initially identify the appropriate gap and explore alternative solutions	14.02.2020	934
Workshop	International Students Orientation on Foreigner's Registration Process by Foreigners	15.02.2020	599
Ceremony	GRANDE FIESTA V2.0	15.02.2020	1135
Workshop	Basic Life Support (BLS)	19.02.2020	585
Talk	Laws Reforms and Statutory Compliances	20.02.2020	1922
Seminar	Corporate Governance, Accounting Frauds : Impact on Financial Performance"	20.02.2020	609
Ceremony	1st Khelo India University Games 2020	21.02.2020	374
Ceremony	Kolosseum 2K20	22.02.2020	1611
Staff Development Program	four day Hands-on Training for Trainers on different electrical software packages	26.02.2020	1355
Workshop	Workshop on Research Methodology	28.02.2020	1991
Seminar	Antimicrobial Resistance (AMR) Menace: Role of Academia	02.01.2020	1312
Talk Series	17 SDG of United Nations	03.01.2020	624
Talk	diagnosis of male urogenital tract diseases and its recent update	03.01.2020	1675
Seminar	Human Values are the essence of Literature	05.01.2019	799
Workshop	Basic life Support comprising of Cardiopulmonary Cerebral	06.01.2020	1002
Seminar	Machine Learning –Theoretical Foundations and Practical Applications	09.01.2020	1209
Talk	Business Writing Skills	10.01.2020	1312
Conference	16th International Conference on Distributed Computing and Internet Technology (ICDCIT-2020)	11.01.2020	1770

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Webinar	16th Annual CHESTCON 2020	11.01.2020	1779
Conference	Technology Unites Culture	12.01.2020	1360
Staff Development Program	Induction Training Programme	16.01.2020	1111
Talk	Collaboration With British Council	16.01.2020	597
Conclave	53rd Csi-2020 Annual Convention Of Computer Society Of India	16.01.2020	1489
Staff Development Program	English Communication Skills	17.01.2020	790
Seminar	Decoding Budget 2020	17.01.2020	1022
Conference	Impla - Integrate 2020	17.01.2020	476
Webinar	Fit India Cyclothon	18.01.2020	687
Talk Series	Contemporary Constitutional Law Developments	18.01.2020	1900
Seminar	India's Foreign Policy in the Changing International Order:the Emerging Maritime Narrative	18.01.2020	1285
Staff Development Program	Hands-on Training on Downstream Bioprocess	20.01.2020	997
Ceremony	Kalinga Global Film Festival (KGFF)	22.01.2020	609
Workshop	Mantra for Success	25.01.2020	1280
Ceremony	"Kaizer 2.0	26.01.2020	865
Observation	Drug Abuse and Prevention	28.01.2020	1070
Workshop	Zoom into MUNs	29.01.2020	1438
Talk	provision, progress and expectations from Budget 2020	31.01.2020	1423

Appendix III: Skill development programmes

Skill development programmes: School of Advanced Skills of the University conducts the skill based training programmes. To augment the skill development drive, the university provides training under Deen Dayal Upadhyaya Grameen Kaushalya Yojana (DDU-GKY) scheme (under Ministry of Rural Development) and Pradhan Mantri Kaushal Vikas Yojana (PMKVY) (under Ministry of Skill Development & Entrepreneurship). List of programmes floated are http://skill.kiit.ac.in/programmes.html. list of courses provided are available in the link: http://skill.kiit.ac.in/courses.html

Name of the Project	Name of the Client/ Sponsoring Agency	Trainees
Suryamitra Skill Development Programme	National Institute of Solar Energy (NISE), Ministry of New & Renewable Energy, Govt. of India	150
Bare Foot Training	State Institute of Rural Development(SIRD), Panchayati Raj & Drinking Water Department, Govt. of Odisha	63
DDU-GKY Training Programme	ORMAS & MoRD, GOI.	3600
CRR Training Programme	DPE, Ministry of Heavy Industries & Public Enterprises, Govt. of India	330
Industrial training (ITI)	Rourkela Steel Plant (RSP), Rourkela	45
Industrial training (ITI)	NALCO, Bhubaneswar	10
Skill Development Training Programme	OSFDC Ltd., SC & ST Dept., Government of Odisha	285
PMKVY	National Skill Development Corporation and OSDA	500
Schooling & Skilling Of MCL	Schooling & Skilling Of MCL	300

Appendix IV: List of papers pertaining to Sustainable Development Goal 4 'Quality Education' indexed in Scopus

- Ahmed S., Zimba O., Gasparyan A.Y.,'Diversifying online rheumatology education options in the era of COVID-19',39(12),pp.3533-3534,2020.
- Desai D., Sen S., Desai S., Desai R., Dash S.,'Assessment of online teaching as an adjunct to medical education in the backdrop of COVID-19 lockdown in a developing country-An online survey',68(11),pp.2399-2403,2020.
- Khan N.M., Kuddus K.,'Integrating ICT in English language teaching in bangladesh: teachers' perceptions and challenges',12(5),2020.
- Jnaneswar A., Hazarika S., Jha K., Vinay S., Kumar G.,'Knowledge, attitude, practices, and barriers regarding pharmacovigilance and adverse drug reaction reporting among medical and dental faculties of the teaching hospitals in Bhubaneswar City',9(1),2020.
- Ahmed S., Anirvan P.,'The true meaning of plagiarism',15(3),pp.155-158,2020.
- Manjareeka M., Yadav S.,'Predictors of high achievers in Indian medical undergraduates: Association with emotional intelligence and perceived stress',9(1),2020.
- Padhi L.K., Mishra D.,'Learning how to learn: An analysis through styles and strategies',15(3),pp.46-59,2020.
- Goswami A.,'Changing contours: The interference of the mother tongue on english speaking sylheti Bengali',15(1),pp.100-134,2020.
- Panigrahi A., Behera B.K., Sarma N.N.,'Prevalence, pattern, and associated psychosocial factors of headache among undergraduate students of health profession',8(2),pp.365-370,2020.
- Dash S.R., Ray R.,'Predicting seminal quality and its dependence on life style factors through ensemble learning',11(2),pp.78-95,2020.
- Joshi G.P., Jha S., Cho S., Seo C., Son L.H., Thong P.H.,'Influence of multimedia and seating location in academic engagement and grade performance of students',28(2),pp.268-281,2020.
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- Swain S.C.,'Formation and open access of institutional electronic research corners for promotion of communication facilities and quality research',15(6),pp.192-199,2020.

- Jiang X., Hu B., Chandra Satapathy S., Wang S.-H., Zhang Y.-D.,'Fingerspelling Identification for Chinese Sign Language via AlexNet-Based Transfer Learning and Adam Optimizer',2020.

- Behura S.S., Mukherjee S., Nishat R., Bhuyan L., Aravindha Babu N.,'Assessment of the awareness of knowledge of dental records in forensic dentistry among undergraduate dental students',14(1),pp.123-129,2020.

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- Halder R., Chatterjee R., Sanyal D.K., Mallick P.K.,'Deep learning-based smart attendance monitoring system',pp.101-115,2020.

- Sinha S., Mishra S.K., Bilgaiyan S.,'Emotion analysis to provide counseling to students fighting from depression and anxiety by using CCTV surveillance',pp.81-94,2020.

- Sahu S.N., Panda J., Sahu R., Sahoo T., Chakrabarty S., Pattanayak S.K.,'Healthcare Information Technology for Rural Healthcare Development: Insight into Bioinformatics Techniques',pp.151-169,2020.

- Chatterjee P., Mishra D., Sain M., Mishra P.C.,'Quality Management in Producing Engineering Graduates by the Premier Technical Institutions: A Case Analysis',pp.643-651,2020.

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- Center of Excellence for Sustainability and Equity
  - 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.
  - Relevant SDG: SDG17
- IBM Center of Excellence
  - 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.
  - Relevant SDG: SDG 4, 10
- SAP Center of Excellence
  - 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.
  - Relevant SDG: SDG 4,9,10
- IoT Center of Excellence
  - 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
  - Relevant SDG: SDG 4,11
- NI Center of Excellence
  - 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.

- ► Relevant SDG: SDG 4
- ► Interdisciplinary Center of Energy with special reference to Renewable Energy
  - ► Projects and research associated with solar energy, thin film photo-voltaics, and wind energy are being conducted.
  - ► Relevant SDG: SDG 7
- ► Tech Mahindra Design Laboratory
  - ► Advanced training on automobile technology and projects for students and researchers.
  - ► Relevant SDG: SDG 4
- ► Center of Excellence for Space Science
  - ► 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.
  - ► Relevant SDG: SDG 8
- ► MSME Center of Excellence
  - ► Promotion of entrepreneurship and supporting entrepreneurial endeavors. This is aimed for creation of more employments and decent life for the stakeholders.
  - ► Relevant SDG: SDG 8
- ► Siemens Laboratory
  - ► The objective of this Center of Excellence is to impart project based training of PLM software tools for cutting edge technology enabled students.
  - ► Relevant SDG: SDG 4
- ► Interdisciplinary Research Center in Materials and Nano-Sciences
  - ► Advanced research in the domain of materials and nano-sciences are being carried out.
  - ► Relevant SDG: SDG 9
- ► TBI-NIDHI Center of Excellence

- ▶ 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.
- ▶ Relevant SDG: SDG 9

- ▶ Center of Excellence in Translational Research Program on Gastrointestinal bacteria pathogens
- ▶ Advanced Research Program on Gastrointestinal bacteria pathogens.
- ▶ Relevant SDG: SDG 3
- ▶ Schneider Lab
- ▶ 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.
- ▶ Relevant SDG: SDG 4, 9

- ▶ Center of Excellence of Water
- ▶ 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.
- ▶ Relevant SDG: SDG 6

- ▶ Center of Excellence for Rare Earth Materials
- ▶ 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.
- ▶ Relevant SDG: SDG 4,9

- ▶ Center of Excellence for Automotive Mechatronics

- Provides advanced diploma in advanced mechatronics creating skilled technicians for the automobile industry.
- Relevant SDG: SDG 4,10
- Center of Excellence in Occupational Safety and Health
- 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.
- Relevant SDG: SDG 3

- KIIT-DU –Acer Center of Excellence
- Projects, automation and software based research   and solutions around artificial intelligence and virtual reality are being carried out.
- Relevant SDG: SDG 9

- Boeing Center
- 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.
- Relevant SDG: SDG 9

- Bosch Center of Excellence
- Advanced research on robotics and automation of jobs are being carried out.
- Relevant SDG: SDG 4,11

- Technology Enabling Center
- Capacity building for engineering/medicine & science students (of Odisha) to build innovative projects leading to new product & process development, IP & Tech transfer activities.

- ► Relevant SDG: SDG 4

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

- ► Fintech Center of Excellence
- ► Software solutions to automate and speed up financial transactions.
- ► Relevant SDG: SDG 8

- ► Acer Predator Thronos at Design Thinking Lab
- ► helpful in learning and applying the concepts of AR/VR through coding and gamification
- ► Relevant SDG: SDG 4

- ► Center of Excellence for Public Policy and Research
- ► Vision to conduct extensive research on social, political & economic policies and design strategies that lead to change in public policy and governance.
- ► Relevant SDG: SDG 8,16,17

- ► Center of Excellence for Happiness

- Vision to promote quality of life vis-à-vis happiness or subjective well-being among people. The learning of Happiness studies will provide participants with the requisite skill, knowledge, and attitudes for smooth sailing through the journey in life.
- Relevant SDG: 3

- Centre of Excellence in Leadership
- Vision to facilitate development of leadership skills and making global leaders
- Relevant SDG: 8

- Centre for studies in Criminal Law and Criminal Justice Administration
- objective of   promoting intellectual discourses andresearch in the broad area of Criminal Law and Criminal Justice Administration throughvarious ways of engagement with the different Stakeholders from academia, research, courts, police, prison etc.
- Relevant SDG: 10,16

- Centre of Arbitrationhttps://kac.kiit.ac.in/about-us/
- Promoting   alternative dispute resolution and   arbitration, the convergence of academic and practice can further the research on theory of arbitration and formulation of best practices for practitioners not just in India but globally.
- Relevant SDG: 16, 17,10

- Centre for Constitutional Law Studies and Research
- to promote awareness among students regarding the dynamics of Constitutional Law. The prime interest of the Centre lies in promoting the research activities in students in national and inter-college level. The Centre has succeeded in extending its work sphere to doctrinal researches and has also started to concentrate on publishing empirical reports.Its objective is to create a supportive environment for academic discussion and thought about constitutional matters. And to encourage students of all backgrounds to

participate, regardless of their knowledge of the more nuanced aspects of the constitution.To provide a platform for public discourse and deliberation vis-a-vis Constitutional law. The Society endeavor through the course of its activities to promote awareness about the subject and its importance. The purpose behind the establishment of the Centre is to generate debate and dialogue on various nuances of the subject of Constitutional Law.

▶ Relevant SDG: 17,16

▶ IPR Centre/ Centre for Intellectual Property Studies

▶ Vision to integrate a techno-legal sphere of law such as intellectual property. This Centre aims to provide a common platform to research persons, academicians, industry personnel, policy-makers, practitioners and students, to discuss the multitudes of activities relating to patent, trademarks, copyright, and other forms of intellectual properties.

▶ Relevant SDG: 9

▶ Centre of   for Criminology, Victimology and Police Science

▶ Vision to encourage research in criminology, applied criminology and police science among faculty and students. The centre has actively organised international seminars, certificate courses and webinars every year and has already earned a fame for itself among national and international audience and resource persons. Research in criminology, victimology and police science is a neglected domain in research and the active participation of students and faculties   promises a vibrant future with ample research avenues and scope.

▶ Relevant SDG: 10,16

▶ Centre of Studies for Business and Corporate Law

▶ the Centreoffered a platform to recommend discussions on company legal guidelines, and anatomize on exclusive subjects and additionally expand a hobby in corporate regulation subjects. It is an endeavor to sell the expertise and studies within side the discipline of the Business Law and is an initiative taken with the aid of using the School of Law, KIIT University to assist college

students in addition to different stakeholders to evolve the modifications for private in addition to commercial growth. The Centre's founding purpose is to analyze and examine the enterprise regulation paradigm, to gain that the Centre will behavior numerous sessions, seminars, meetings etc. over the length of time; creating an expertise of realistic elements of company and business legal guidelines amongst students that is going past the scope of school room teaching, which includes preserving the conventional technique of disseminating knowledge, breeding college students specializing in studies and concurrently imparting a breadth and intensity of records specially company legal guidelines and to convey together, from the practicing fields to construct a platform and to gain the top of perfection in corporate education.

► Relevant SDG:8,9,10,16

► Centre for studies in Legislative Drafting
► Relevant SDG: 16

► Microchip Centre for Excellence
► Relevant SDG: 9,11,17

► International Centre for Business Research and Innovation
► Relevant SDG: 8

Patents Published and Granted in 2019 and 2020

1. Exhaust Air Purification System
2. Hook With Spring For Repositioning Of Ectopic Canine
3. A-Versatile Spring
4. Manager-Agent Position Prediction Method In Cooperative Communication Of Wireless Sensor Network Based On Distributed Artificial Intelligence
5. Cephalometric Tracing Tool
6. Machine Learning-Based Smart Workout Mirror And Method Thereof
7. Machine Learning And Iot -Based Smart Self Adjusting Potty Seat
8. Dach- Health Notification: Iot-Based Health Notification And Doctor Availability Checking In Hospital Using Machine Learning, Deep Learning Programming
9. Technique For Multilayer Protection From Quantifiable Vulnerabilities In Industrial Cyber Physical System
10. Concept For Digital Classroom System
11. Concept Of A Mobile Sanitizer Dispensing Unit
12. An Automatic Dustbin
13. Vegetable And Fruit Washer
14. Compact Multifrequency Antenna Using Single -Layer And Single Port
15. Herbal Toothpaste Tablet
16. Low Cost Self Dispensing Toothbrush With Herbal Dentifrice
17. Curcumin Coated Gp Points
18. Methods And Reagents For Detection And Serotyping Of Dengue Viruses
19. Footwear With Automatic Adjustable Heel Height
20. Zero Rpm-Synthesized Tunable Plasmonic Hollow Silver Nanoshells In The First And Second Near-Ir Windows For Enhanced Solar-Catalysis
21. A Novel Green Synthesis Of Multi-Coloured Fluoresent Carbon Quantum   Dots (Cqds) Using Date Palm And Mahua Flower

22. Fabrication Of Pervious Concrete From Fly Ash
23. Iot Based Integrated Device And System For Health Analysis
24. System And Method For Automatically Detecting Plagiarism
25. A Novel Selection Algorithm Based On Similarity Theory
26. Iot Based Health Care Management System
27. Method Of Management Of Computing Workload In The Networked Hosts Using Artificial Neural Network
28. System And Method For Replacement Of Batteries For Battery
29. A Novel Nicu Usable Nesting Apparatus
30. A Novel Photoplethysmograph Iot Based Device To Determine The Heart Rate Using Volume Measurement Of Blood In Arteries And Capillaries
31. A Pharmaceutical Composition For Wound Healing Through Topical Applications
32. Lung Cancer Detection And Recommender System Using Deep Learning
33. A Medicine Recommendation System
34. Low-Cost Public Transport Disinfection And Sterilization System,Application
35. Machine Learning Based Ball Throwing Machine
36. Intelligent Robotic Mechanism To Automate Swab Test To Detect Covid-19 Disease
37. Sensor Based Intelligent System To Ensure Social Distancing Among Students In Educational Institutions To Prevent The Spread Of Covid-19
38. System And Method For Predicting Spread Of Infectious Disease
39. Blockchain Based System And Method For Providing A Platform For Managing Blood Bank
40. An Audio Signal Listening Device For Detecting Nearby Sound And A Method Thereof
41. An Unmanned Aerial Vehicle Based Method And System For Patrolling Over Search And Rescue Area
42. Door-Locking System And Method
43. Testing The Quality Of Fruit And Kill Covid19 Virus
44. Improved Hand Operated Embroidery Tool For Easy Operation
45. System And Method For Extraction Of Sweet Compounds From Natural Stevia

46. Method For Detecting Abnormalities In Computer Network Security Using Big Data Analysis
47. Thermal Screening System And Method
48. A Novel Cost Effective Portable Ventilator Mechanism For Medical And Health Care
49. An Iot Based Quality Analyzing System For Rectifying Faults In An Electrical Distribution System
50. Photovoltaic Cleaning And Cooling System
51. A Mobile Sanitizer Dispensing Unit
52. Smart Classroom System
53. Portable Backup Apparatus
54. Onsite Automated Soil Testing System
55. A Device For Easing The Anxiety Of A User
56. Ai Based Smart Face Musk
57. Rural Solar Home Lighting Device
58. A Novel Phenotypic Antimicrobial Resistance Testing Using Cost Effective Integrated Biochip
59. A Novel Hybrid Renewable Power Platform To Harvests Wind, Solarandwater Current Power From Running Water-Channel
60. A Novel Nanosilver Hand Rub Sanitizer Gel
61. Wearable And Smart Phone Coupled Women Safety Device

Appendix VII: Research Projects during 2019 & 2020

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 Empirial 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)

Development & Characterization of microtumor spheroide for evaluating radiopharmaceuticals

Development of a potent anti-cervical cancer drug using bioactive small molecule quinacrine Nanopartical

Deciphering the Effects of Radiopharmaceuticals on Eplgenetic Profile of Colon Cancer"

Effect of lipoic acid on lionizing radiation-induced TGF beta signaling in breast cancer cells

Kalinga Institute of Industrial Technology

Effect of Micro RNA-214 in Modulating Chemo Resistance/Sensitivity in Cervical Cancer

Quinacrine and Silver based hybrid nanoparticle caused apoptosis in Oral cancer stem cells by inhibiting induction of base excision repair pathway

Role of Estrogten-related recitor @ (ERRa) in epithelial mesenchymal transition and metastasis of breat cancer

Olaparib (AZD2281) a PARP inhibitor and curcumin synergisticallyinduces apoptosis in oral cancer stem cells by inhibiting the DNA repaircascade

Validation of anti-cancer activity of Phytochemicals from traditional herbal healing practices

Analysis of CART Cell therapy as a living drug for the treatment of hematologic cancer

Multpronged Approached for Clinical Assesment of Novel Curcumin Formulations as Drugs for breast cancer therapy

Study on estrogen receptor alfa (ER-a) in breast cancer patients with reference to local population

Determination of Biofilm Pharmacpdynamics of newly formulated, nanoconjugated antibiotics to Optimize treatment and dosing of chronic, antibioticresistant biofilm infections

MultiOmics Analysis to Decipher Mechanisms of Hormone Resistance in Breast Cancer

Development of Natural Emulsion based Beverage and its domain in energy drink

Support to establish DBT Boost to University Interdiscilinary Life Science Department for Education and Research (DBTBuilder) Programme

Deciphering Osteopontin Driven Regulator(s) of Metastasis in Triple Negative Breast Cancer using Dead Cas9Based Tools

ZBTBlO:a potential trigger for dendritic cell immune responses

A comparative study of various topical formulations of curcumin towards diabetic wound healing in a rat model

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

Policing a Smart City: Challenges and Priorities towards Urban Transformation of Kolkata and Bhubaneswar

SDG 6: Clear water & Sanitation: Project on Sanitation

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:

Relationship between household sanitation and woman's experience of menstrual hygiene under Swachha Bharat Mission (Clean India Mission) in Odisha, in collaboration with ICSSR.

Consultancies during 2019 & 2020:

- Fabrication & Commercialization of a highly porous previous concrete material from fly ash
- Impact of Pradan's Intervention in Goat farming in 24 Paragana district
- Impact of RFIS programme
- Consultancy on documentation of integrated approach adopted by PRADAN in Mayurbhanj district of Odisha
- Climate Change Effects on Livelihoods and Adaptation Strategies: An Empirical Inquest with Special Reference to Marginal and Small Farmers in Odisha
- National Workshop on Alternative Sustainable Livelihoods and Coastal Resource Management.

- Natural Disaster and Vulnerability: An Empirical Study in Drought Prone Region of Western Odisha.
- Preparation and submission of necessary design for restoration of washout portion at valley side of from ch.238.962 to 239.012 & 239.250 to 239.310 of NH59 (Daringibadi Ghat) effected by Titli
- Construction of H.L Bridge over River Mahanadi in district of Bargarh in the state of Odisha on Engineering Procurement and Construction (EPC) mode: Engagement for the post of Senior Geotechnical Engineer
- Material testing for Mind Tree project
- Concrete Cube Test of M30 & M20 Grade
- Preparation of Detailed Engineering Report (DER) including detailed engineering design & drawing for the existing bridges which needs modification/re-construction on National Waterway-5 in Odisha, India
- Shear strength parameters
- Soil test for Mind Tree project
- Design Mix for M30 and M40 using OPC and Fly ash
- Making of Preliminary Design and Estimating of Jagannath Ballav Pilgrim Center, Puri
- Design and Stability Certification services for retrofit of hoist and propposed corridor which will connect TG and CCR Buikding at +12m height, Balco Corrba, Chhatisgarh
- Proof checking of the structural design and drawings to accommodate one additional 20 Ton EOT Crane in addition to 3 other cranes operating in the same Bay of Structural Building & Handling hot metal in the Titanium Saraf Plant at Chatrapur
- Technical Support Unit to the Housing and Urban Development Department, Government of Odisha to implement the state urban sanitation strategy (FSSM) - offered Technical services for 8 Districts of Odisha
- Design and recommendation of Rock Slope Stabilization work adjacent to new Rail project for OPGC MERRY-GO-ROUND Railway Project, Jharsuguda for a stretch of 9KM

Appendix VIII: National/ International Memberships

- Academic Partnership of The IET, UK
- Association of Commonwealth Universities (ACU)
- European Association of International Education
- International Association of Universities (IAU)
- International Association of University Presidents (IAUP)
- United Nations Academic Impact (UNAI)
- Asia-Pacific Academic Consortium for Public Health
- Association of University of Asia Pacific (AUAP)
- Eurasian Silk Road Universities Consortium (ESRUC), Turkey
- University Mobility in Asia and the Pacific (UMAP)
- All India Management Association
- Association of Indian Universities (AIU)
- Indian Commerce Association
- Indian Science Congress Association
- Indian Social Science Academy
- Indian Society for Technical Education