



Volume - VI  
Issue II



*Hon'ble Minister's address to students during morning assembly*

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## Hon'ble Minister of MoAF visits JNEC

### Campus Stories

It was an honor for Jigme Namgyel Engineering College to receive Hon'ble Minister Yeshey Penjor, Ministry of Agriculture and Forests on October 18<sup>th</sup>, 2019. The Minister is an alumni of the then Royal Bhutan Polytechnic.

The Minister shared his wisdom and insights about learning to be independent, resilient, friendly and respectful; which at times is lacking in young generation while interacting with faculty, staff and students. "Don't let yourself be the victim of minute challenges" he advised in the gathering filled with silence and invigorative minds. He took the audience back to his past days where life was different and how he overcame the challenges rather than being the victim of it. He shared that those days, challenges were faced due to framed government policy and lack of human and physical resources. However, he emphasized that he never gave up instead consulted with colleagues and worked hard to overcome challenges. Through consultation, he said "we receive advice, new ideas, information, encouragement and strength which you would

not acquire on your own".

Hon'ble Lyonpo truly believes in interdependence and working together, therefore reiterated that consulting your problems with friends, family and co-workers really helped him in making him a successful person. As per the Minister, the key to his success was following the advice and leaving behind the negative ego and attitude. He guided young students to be resilient; to overcome challenges and to seek valuable guidance of

family, teachers and friends.

The Minister concluded his visit by gracing the first exhibition organized by Department of Civil Engineering and Surveying and Poster Competition organized by Department of Humanities and Management. He also made a brief visit to Mechanical Engineering Laboratories, Center for Appropriate Technology and the hostel where he lived as a student.



*Hon'ble Minister graced the exhibition organized by Department of Civil Engineering & Surveying*

## Training on Surveying by Experts from Japan

### International Linkages

Training on basic surveying was held in Jigme Namgyel Engineering College from 12<sup>th</sup> to 31<sup>st</sup> August with the support of two experts from Japan, Mr. Hajime Shirai, Representative

Director and Mr. Akihiro Shimizu, a Field Surveyor of Society of Expert through Construction Equipment (SECONEQ). Upon introducing B.E Surveying and Geoinformatics, two experts were to facilitate the faculty and technicians of Department of Civil Engineering and Surveying with the required skills on basic Surveying and Geoinformatics. This programme was supported by Ministry of Education, Culture, Sports, Science and

Technology (MEXT), Japan as an EDU-Port project, 2019.

With the concept "Easy for Anyone", experts from Japan conducted the basic survey Training based on "Surveying Practice Instruction Book", published by Japan Society of Civil Engineers in 2007. The training is being resourced by Mr. Akihiro Shimizu, a surveyor and a member of

*cont. page 3*



## An Exhibition to Supplement Classroom Learning

### Campus Stories

The Department of Civil Engineering and Surveying organized their first departmental exhibition with the theme “A Heuristic to Supplement Classroom Learning” on 18<sup>th</sup> October 2019. The event was graced by Hon’ble Minister, Yeshey Penjor, Ministry of Agriculture and Forests.

Students showcased various models of

traditional building, replicating monuments displaying rich architectural and cultural heritage from different parts of the country. In addition, models of traditional and modern bridges were also exhibited. The event displayed myriad of buildings and bridges marking the quantum leap in the field of infrastructure development around the country. This heuristic learning highlighted the importance of conserving the traditional architecture and methods of building construction in Bhutan.

The event was organized as a part of academic

learning, where students explored about building model, design blueprints, cost analysis and building construction materials. Further students also learnt and applied modern techniques in designing the models of bridges. Such events enhance students' innovation and creativity, supplementing theoretical learning with real life experiences. Therefore, heuristic learnings are known to ensure academic quality and realistic learning.



*Changyul Galem's House (Punakha)*



*Traditional House (Gasa)*



*Traditional House of Merak (Trashigang)*



*Traditional House of Mendrelgang (Tsirang)*



*Traditional House of Dorokha (Samtse)*



*Traditional House of Sekten (Trashigang)*



*Model developed by Civil Engineering Students*



*Model developed by Civil Engineering Students*



*Replica of Modern House of Bhutan*



*Model of Golden Gate Bridge (San Francisco)*



*Bridge Design Representing a Blend of Western and Traditional Architecture*



*Model Representing Amochu Bridge (Chhukha)*



## The Survey Training by Japanese Experts

editorial board members of “Surveying Practice Instruction Book”.

The survey training was practical oriented on various concepts of surveying such as Distance Measurement, Angle Survey, Leveling and Plane Table surveying for faculty and technicians. Later the trained faculty and technicians guided and shared the knowledge and skills to the students of B.E. Surveying and Geoinformatics. It enabled the participants to realize the importance of discipline, professionalism and conduct of measurement with higher degree of accuracy in the field surveying.

As a part of teaching practicum, the team consisting of faculty, technicians and students of B.E. Surveying and Geoinformatics under the supervision of two experts, carried out a real ground survey for the establishment of Mini Hydro Power Plant at Sanguri, located at the Dewathang-Samdrupcholing highway which is 12 km away from the college. The pilot scheme of this project is to generate power and the related proceedings will be handled by Jigme Namgyel Engineering College.

The training programme was a platform for dissemination of Japanese-Style Education using Public-Private Collaborative Platforms. The two experts has been supportive throughout the training. This training was endeavor to support the implementation of the newly launched Bachelors programme in Surveying and Geoinformatics.



*Faculty getting trained on Surveying*



*Students of B.E. Surveying and Geoinformatics getting trained by experts at Sanguri along the Dewathang- Samdrupcholing Highway*



*From the left: Mr. Hajime Shirai, Representative Director of SECONEQ, DCES Faculty and Mr. Akihiro Shimizu.*



## PBL- South Asia Workshop

### International Linkages

A team of six student project coordinators; one from each department, from Jigme Namgyel Engineering College, attended PBL- South Asia Workshop for Faculty and Advanced Students at the Indian Institute of Technology, Bombay. The P B L South Asia Case study in IIT Bombay commenced on 19<sup>th</sup> and ended on 30<sup>th</sup> of August 2019, with the PBL partners from India, Nepal, Bhutan, Finland, Netherlands and Lithuania.

The workshop was designed as an extensive practical training opportunity for applications of Problem Based Learning Concepts for sustainable development in South Asian Context. The workshop commenced with a refreshment course of design thinking workshop with Lego Toys. It was enriching experience for participants to associate with peers of different age bands and creatively engage in developing skill tool that could be used for conceptualize future situations. A second session on design thinking application helped participants to equip themselves with ideas and areas of application of design thinking process.

The two week long intensive training consisted of self-organized teams from various disciplines and universities, to work on a real case setting, with motivation to solve societal problems in locality of Mumbai, with Problem Based Learning literature under the following themes:

Livability in Slums, Affordable Housing, Affordable Healthcare, Construction Demolition Waste and Net zero energy development.

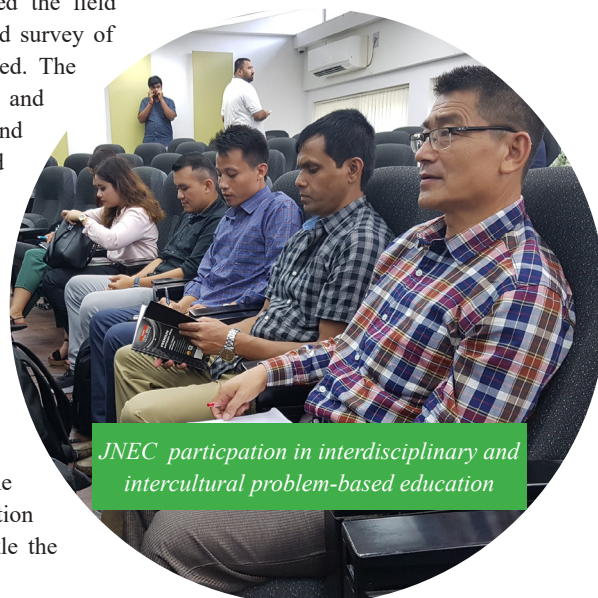
Some essential elements of the workshop were group formation and team building, attending design thinking workshops, planning the course of work, meeting mentor and working on

feedback. To get a clearer picture of the thematic areas and to derive a closer understanding, the participants firstly attended client presentations. The presentations provided a foundational stand to strategize the course of action.

After meticulous strategizing and planning, the participants in discussion and feedback with respective group mentors, went for site surveying and conferencing with the dwellers of the respective areas. The day long visit enabled participants to gather firsthand information and prepare their preceding actions. After the groups framed their problem statement and made a rough sketch of the expectation from the dwellers of those areas, they dived in to collected data, and interviewed relevant stakeholders in context of PBL. The participants sat together with the mentors and participants presented their PBL methodology that they designed.

The thematic groups, framed method of site survey and documentation and questionnaires and to debated and validated their initial ideas with the much clearer idea after the field visit. The participants visited the field and took interviews and conducted survey of the questionnaires that they framed. The participants built, tested, applied and improved their test blueprint and prototype to suit the proposed solution. The student respective cases also ideated solutions and possible circumstances as an outcome of their survey. The survey and post survey discussion led to concluding findings for the problems in the context of PBL. The participants met with their mentors and reflected on lessons learned from the programmes and made a presentation of their proposed solution to tackle the issues under respective themes.

The workshop and case study proved to be a successful avenue for the participants to learn and also take back home, research ideas, problem solving and planning skills, improved soft skills and the culture of independent performance in a diverse group. The student case study of Mumbai locality, fed participants of JNEC with qualities of understanding and comprehending a real life scenario, engaging with communities and conversing ideas, advocating ones idea of an improved livelihood and planting a seed of change and development. The workshop and case study, enabled participants to interweave societal challenges with problem solving, help bring behavioral change with advocacy and dynamically engage with communities to bring a positive change. The take away package of wisdom from the workshop was committed its continuity, by actively including PBL curriculum and methodology in student projects and case studies, by the project coordinators in their respective departments.



*JNEC participation in interdisciplinary and intercultural problem-based education*



*Mr. Choten Tshering, Associate Lecturer, DCES making a presentation at the workshop*



## Asia Pacific ICPD25 Youth Consultation and Flagship event

### Workshops & Seminars

The Asia Pacific International Conference on Population and Development (ICPD) 25 youth consultation event and Flagship event, titled “Accelerating action for ICPD in Asia and the Pacific: The Nairobi Summit and Beyond” was from 23<sup>rd</sup> and 25<sup>th</sup> September, 2019 in Bangkok, Thailand. The event saw over 90 young participants from 25 countries of the Asia Pacific region who were made to understand ICPD, share thoughts and discuss on pressing issues on various progress and gaps that the region is facing in achieving ICPD Programme of action (PoA). These members consisted of young advocates working with the disabled, reproductive health and rights, environment, gender-queer, migrants, socially disadvantaged, young population and the young key population. Y-PEER members from six different countries namely Bhutan, Nepal, Vietnam, Afghanistan, Mongolia and Philippines were present during the event. The event was solely organized and coordinated by Y-PEER Asia Pacific Regional Office led by the coordinator, Sangeet Kayashtha and the facilitator from UNFPA, Anzaira Roxas along with other partners

Instituted twenty years ago, the landmark of ICPD emphasized on the people’s right with an ambitious agenda to deliver inclusive, equitable and sustainable global development. This agenda has guided policy and helped secure advances in equality and empowerment for women, global health and life expectancy, and education for girls. It is also aimed at bridging the current gaps of inequalities across different nations and overcome new challenges related to

population growth, changing age structures, rapid urbanization and migration. Besides, area of discussion also included pressing issues of environment.

This year marks the 25<sup>th</sup> year anniversary of the program of action adopted at the ICPD by 179 nations. The Asia Pacific ICPD25 youth consultation Forum organised by Y-PEER and UNFPA with support from APA, Arrow, IPPF, She Decides, and Youth lead was aimed at getting recommendations as a preparatory session for youth representatives to the Nairobi Summit to be convened by United Nations Fund for Population Activities (UNFPA) from 12<sup>th</sup> to 14<sup>th</sup> November, 2019 in Nairobi

The Youth Forum held from 23<sup>rd</sup> to 24<sup>th</sup> September 2019 was a means of involving young people in accelerating the progress on ICPD program of action and strengthening young people’s understanding of the linkages between the ICPD and the 2030 agenda for sustainable development.

The session begun with welcome note from Ms. Annette Robertson, Deputy Regional Director of UNFPA APRO. She shared on the objectives of this youth consultation and how youth can take part in achieving the goals of ICPD. She emphasized on the three main goals of zero un-met maternal needs, zero unwanted pregnancies and zero gender-based violence to be achieved by 2030. The event was followed by series of activities that included performances of traditional dances, mentimeter quiz and group discussion as per the region on four main issues that are lack of Comprehensive Sexuality Education, Gender based violence, Climate crisis and Vulnerability of marginalized groups.

On the third day, the Flagship event, “Accelerating action for ICPD in Asia and the Pacific: The Nairobi Summit and Beyond” was held with various talks and panel discussion. The event was held in the United Nations Economic and Social Commission for Asia and the Pacific office. The keynote address representing the youths from the consultation was given by Ms. Ayeshwini Lama who is a member of Y-PEER Bhutan.

Through this event the youth got an opportunity to voice out their thoughts, share their innovative recommendation to the global community. The strong dynamic energy that radiated through the participants was felt by the adults. “when you give young people a voice, a choice, an opinion, empowerment, you make sure that the future has a voice, a choice, an opinion, an array of empowered leaders.” -Ayeshwini Lama. Representing Bhutan as one of the Y-PEER members from my college, I have been able to learnt so much through this programme that will indeed help me contribute towards the development activities of Y-PEER in Bhutan.



Mr. Rangjung Dorji (extreme right) representing JNEC, with other Bhutanese participants



Participants of ICPD25



## Reflection on 'Learning By Doing'

### Academic Development

As we embarked the Autumn Semester 2019, we thought that the Electrical Power Generation was just another module. However as the time passed by we learned that the module has interactive learning platform through design, fabrication and installation of projects. The module provided an opportunity to apply classroom concepts in practical field. The first activity in implementation was to design a table fan or pocket fan. The tutor assigned a group activity to design and fabricate a table fan from the waste materials available in the campus. The first part of the activity was to assimilate the design concept and seek feedback and approval from the tutor. It was a group activity with two members in each group. Each group presented their innovative design concept to the class. The presentation not only gave us the platform to practice and build presentation skills, but also give us an avenue to improve the design through constructive feedback from the colleagues and tutor. The challenge in the prototype building was identifying relevant materials and extracting them. With passage of time this was over come as we learnt alternate materials to use which could easily be recovered from electronic wastes around the campus. Each group came up with a working fan prototype which was unique in design. The presentation and demonstration of this prototypes changed our perspective of streamline thinking and helped us gather creative ideas, which was the concept to make the same end product.

Another activity in pipe line was to design and install solar powered canopy/street lighting

facility. Each group consisting of five students were given a mini project to design and install a solar powered system. The objective of the project, was to provide lighting to the canopies where it is not convenient to provide power through commercial power supply due to increasing length of wire. With rigorous literature review and research, each group presented their design concept for the project. With additional input and the approval for the design, we were tasked to find ways to fabricate the mounting arrangements and install the solar lighting in

and the *Linkana* park were illuminated. The installation sites were visited by the Head of Department of Electrical Engineering and the module tutor for assessment. We were asked to take ownership and be responsible for the maintenance of it's lighting throughout our stay in JNEC.

Today as we reflect back, it's a jocund moment to witness the project being useful and knowing the process to install the solar panel. Learning by doing is now realize effective and efficient.



*Solar powered canopy; passerby leisure spot*

the canopies constructed previously by Civil Engineering and Mechanical Engineering students as part of their final year project work. With determination in mind, the student diligently work to complete the project on time. Four canopies, each located near the Department of Electrical Engineering, Department of Mechanical Engineering, College Cafeteria

This activity was part of Center for Lighting and Energy Efficiency Studies (CLEES) activity conducted by the second year Bachelor of Power Engineering students as part of course work for the module Electrical Power Generation.



*Models built by students*



## JNEC e-Yantra Robotics Lab

### Workshops & Seminars

**J**igme Namgyel Engineering College (JNEC) has established robotics lab through eLSI (e-Yantra Lab Setup Initiative).

e-Yantra is a project hosted by Indian Institute of Technology (IIT)

Bombay, to spread education in embedded systems and robotics. The project is sponsored by Ministry of Human Resource Development (MHRD) through the National Mission on Education through ICT (NMEICT).

JNEC e-Yantra Robotics team currently comprises four faculty from the department of Electronic and Communication Engineering, Mechanical Engineering, Information Technology and Electrical Engineering. They attended three-day workshop organized by College of Science and Technology (CST) and resourced by e-Yantra. The workshop was on the basic concepts of embedded systems and Micro-controller programming as the first phase of training. On the second phase of training, the team were given online

Task-based Training (TBT) for a period of 3 months.

The objective of the robotics lab is to promote robot enhanced education in JNEC. Through the robotics technology, college aspires to inculcate innovative and entrepreneurial mindset in students, encourage creative ideas and promote interdisciplinary learning. In

addition, the lab will facilitate in organizing annual robotics competition where a team of innovative and interested students from diverse discipline can participate. Currently, the lab is equipped with basic robotic toolkits through which staff and student enthusiast can explore, learn and ideate solution for the community and country as whole.



*JNEC staff with e-Yantra team in IIT Bombay*

## Two New Degree Programmes

### Academic Development

**J**igme Namgyel Engineering College, one of the constituent colleges of the Royal University of Bhutan has officially launched two new degree programmes, namely Bachelor of Engineering in Mechanical Engineering and Bachelor of Engineering in Surveying and Geoinformatics from July 2019.

The inauguration ceremony was graced by the President of the College, Dr. Andu Dukpa, The Representative Director of Society of Expert for Construction Equipment (SECONEQ), Mr. Hajime Shirai, and Field Surveyor, Mr. Akihiro Shimizu from Japan. During the event Hon'ble President of JNEC emphasized on the profound words of wisdom by His Majesty the King and also by His Majesty the Fourth Druk Gyalpo. He further reminded students on the importance of students' attitude and ethics. He reiterated that as a technical person, one should also have



*Mr. Hajime Shirai hands over the definitive document to Mr. Norden Wangchuk, Head, MED*

good heart along with technical skills so that it creates good impact on human lives.

In addition, The Representative Director of SECONEQ paid his gratitude for being a part of this historical event. He handed over few equipment that will benefit Surveying

and Geoinformatics programme. The two experts from Japan will be jointly working with Department of Civil Engineering and Surveying (JNEC). They will be training faculty, staff and students in the area of surveying, geoinformatics and GIS. Students of the existing degree programme shared their experience and new students reflected on their expectations of the programme followed by cultural programme.

In the first cohort, a total of 23 students for BE Mechanical Engineering and 25 students for BE Surveying & Geoinformatics were enrolled for the admission in Autumn Semester 2019.

With the addition of these two new programmes, JNEC currently offers a total of ten programmes; three at degree level and seven at diploma level in the field of applied engineering, management and information technology.

*cont. page 8*



*Mr. Hajime Shirai hands over the definitive document to Mr. Jigme tenzin, Acting Head, DCES*



## Bhutanese students witnessed the landing of India's Chandrayaan-2



The Embassy of India to Bhutan, granted an opportunity to one student each from all the colleges under Royal University of Bhutan to witness once in a life time event of landing of lunar orbiter of Chandrayaan-2; Indian Lunar exploration mission.

JNEC was represented by Karma Thinley, a second year student from Diploma in Civil Engineering and joined by mates from other colleges to witness this event scheduled for 6<sup>th</sup> September, 2019 from Indian Space Research Organization (ISRO), Bengaluru.

The journey to Indian capital for the visiting students started on 3<sup>rd</sup> September, 2019. In addition to witnessing the landing of the Lunar Orbiter, the Bhutanese students were taken for field visit to The Energy and Resources Institute



Chandrayaan-2 (Photo courtesy : bbc.com)

(TERI), National Museum, Shanti Stupa and other historic sites.

On 4<sup>th</sup> September, 2019, the students visited National Institution for Transforming India and Indian Institute of Technology, Delhi. On

6<sup>th</sup> September, 2019, the students travelled to ISRO and witnessed the main event.

The student expressed his gratitude for this educational tour and reflected that it was motivating, towards pursuing innovative leaps.

## JNEC celebrates Druk Tshongrig Gatoen 2019



The Entrepreneurship Club of the College organized week-long activities to celebrate and mark the second Druk Tshongrig Gatoen, the entrepreneurship festival of

Bhutan.

On 17<sup>th</sup> October 2019, the club organized inter-house debate and quiz competition on the topic, creation of jobs opportunities through entrepreneurship programmes both in Dzongkha and English. Similarly, on 18<sup>th</sup> October 2019, the Poster competition was also held to mark the festival. The highlights of the competition were under three tracks namely 'hacker, social and hustler'. As an open competition to all the final year students, a total of 18 different ideas were selected to pitch. Amongst the 18 poster ideas, top six were selected and awarded the prizes. The poster competition was graced by His



JNEC celebrating Druk Tshongrig Gatoen - 2019

Excellency, Minister Yeshey Penjore, Ministry of Agriculture and Forests.

Inline with the celebration, on 21<sup>st</sup> October 2019, the student entrepreneurs' group commenced the ePrinting business in the academic campus to cater printing services to faculty and students at an affordable price. The President of the College inaugurated the unit and provided with the valuable advises to the student entrepreneurs

as well as wished them the best of luck in their endeavors. With the Memorandum of Understanding signed on September 2019, The Loden Foundation, provided interest free loan to initiate entrepreneur activities under Loden SEED Fund Scheme. The college is thankful to Loden Foundation for their continuous support in realizing the enterprising ideas of students in the college.

## Two New Degree Programmes

The launching of the new programmes is yet another milestone in the history of the college. This has become possible through the continuous support from the partners/stakeholders involved in the development. The college is indebted to the following for their unwavering support.

1. Dr. Zbigniew Kulesza, Vice-Dean for Cooperation, Faculty of Mechanical Engineering, Bialystok University of Technology, Poland for providing expert advice in the programme development.

2. Mr. Hajime Shirai, President, SECONEQ, for introducing Japanese style learning through Edu-Port Programme and providing support to programme.

3. Professor Junichi Kurata, Kansai University, Japan for assisting in the development of programme content. He has also donated 3D printer with accessories.

4. Asst. Prof. Masanori Ogata, former Lecturer in Kansai University

5. President and management of Nakayama Iron Work Limited, Japan, for providing internship opportunities for faculty members.

6. The officials from Druk Green Power Corporation Limited, Construction Development Corporation Limited, Bhutan Helicopter Service Limited, Department of Renewable Energy (MoEA), MoLHR, College of Science and Technology, and Bhutan Ferro Alloys Limited for their active participation and providing professional input to refine the programme document through the stakeholder workshop organized in Thimphu.



## Workshop on Intellectual Property Rights and Patent Database Search

Workshops & Seminars

Two-day awareness workshop on 'Intellectual Property and Patent Database Search' was held on 30<sup>th</sup> and 31<sup>st</sup> October, 2019 jointly organized and resourced by

Center for Appropriate Technology (CAT) in Jigme Namgyel Engineering College (JNEC) and Department of Intellectual Property (DoIP) under Ministry of Economic Affairs. The main objective of this workshop was to advocate on the importance of innovation and protection of Intellectual Property Rights and Patent database search techniques for research and innovation.

The event was targeted for the school teachers of Samdrup Jongkhar region on the first day and to the officials of municipal, local government, Civil Society Organization and the monk body on the second day. A total of 35 participants attended the workshop.

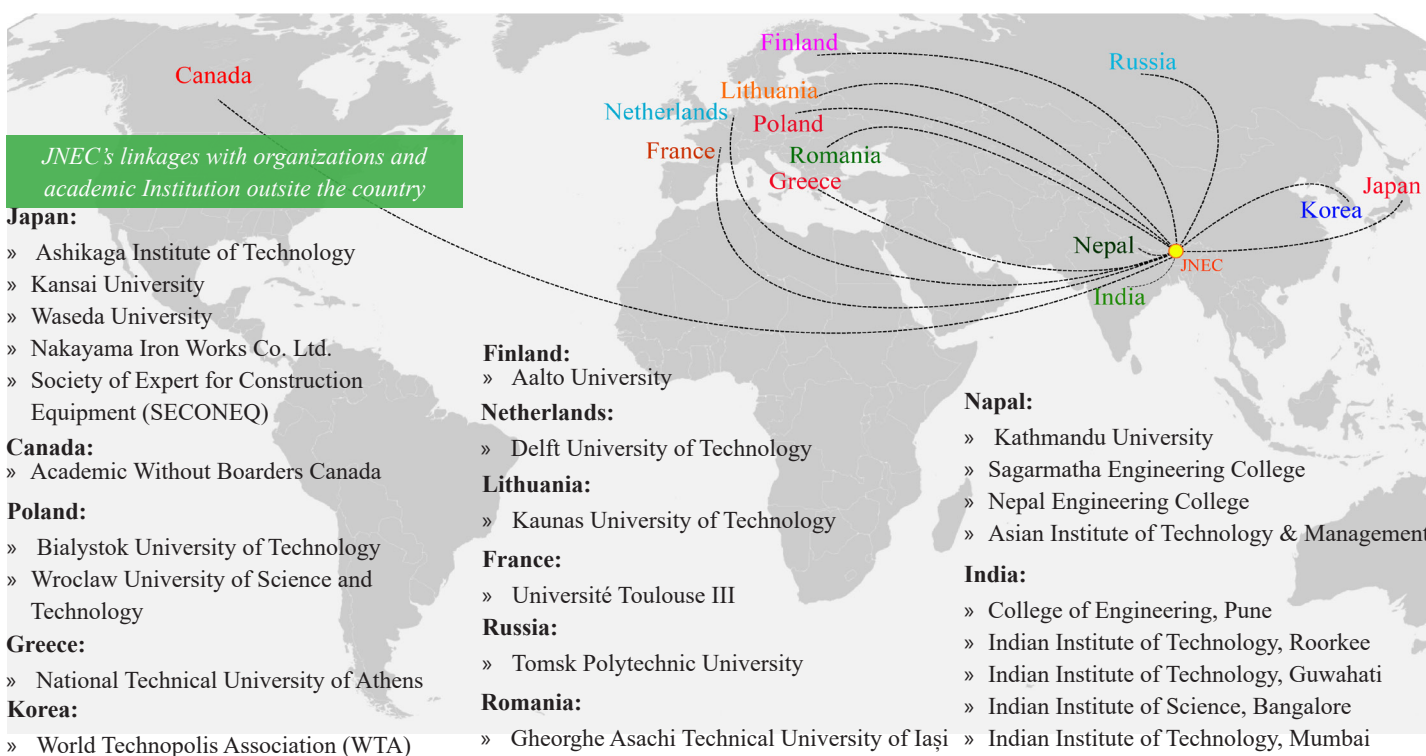
Similar sensitization programme was conducted by Center for Appropriate Technology, JNEC for all final year students pursuing degree and diploma programmes on September 21, 2019.

The workshop covered the overview of Intellectual Property System; Innovation, IP and relation to Economic growth, Introduction to Patent, Industrial Designs, Trademark, Copyright, Geographical Indication, Traditional Knowledge and Cultural Expressions. Further the participants were provided with hands-on learning on using PATENTSCOPE to search patent information from the database.

The programme made participants to reflect on importance of innovation and its influence in economic growth, generating domestic revenues through economic diversification, sustainable economic growth and job creation.



Participant and Resource person of the workshop



*JNEC's active linkages with organizations and academic Institution within the country*

### Bhutan:

- » Department of Renewable Energy, MoEA, Thimphu, Bhutan
- » Construction Development Board, Thimphu, Bhutan
- » National Land Commission Secretariat, Thimphu, Bhutan
- » Department of Information and Media, MoIC, Thimphu, Bhutan
- » Samdrup Jongkhar Initiative - Lhomon Society, Dewathang, Samdrup Jongkhar
- » Loden Foundation, Thimphu, Bhutan
- » Food Corporation of Bhutan, Samdrup Jongkhar, Bhutan
- » Bhutan Telecom Limited, Samdrup Jongkhar, Bhutan
- » Tashi Infocomm Limited, Samdrup Jongkhar, Bhutan

“No matter what your ability is, effort is what ignites that ability and turns it into accomplishment.”

Carol S. Dweck, *Mindset: The New Psychology Of Success*



## Annual College Sports Day

Games  
&  
Sports

The 2<sup>nd</sup> Annual Sport Day of Jigme Namgyel Engineering college was conducted on 1<sup>st</sup> November, coinciding with the Coronation Day of His Majesty the 5<sup>th</sup> Druk Gyalpo. All the faculty and students gathered for the programme at the sports complex of the college. The event commenced with the *Marchang* ceremony and recitation of *Zhabten* for the long live of His Majesty, the fourth Druk Gyalpo.

The event started with display of aerobic dance by first year Civil Engineering students with their faculty. The students gave in their best spirit and sportmanship, a representative of their respective department, to compete against others. Faculty also participated in the fun event of one legged race to win points for their department. In between the field and



Participants gearing up for sporting events

track events, cultural dance by Cultural Club, were also at display, for the entertainment of of spactators and participations.

Furthermore, each department also showcased their banner design, which was evaluated with prints for the total score. *cont. page 11*

## VISITOR LIST

Visitors	Date
Ms. Chaitali Brahma (Registrar), Dr. Monomoy Goswami (Dean of Faculty Affairs) and Dr. Sandeep Kumar Srivastava - Central Institute of Technology (CIT), Assam	22 <sup>nd</sup> Oct, 2019
Hon'ble Lyonpo Yeshey Penjor, Minister of the Ministry of Agriculture and Forests,	18 <sup>th</sup> Oct, 2019
Ms. Riina Vanina Larissa Subra., Project Manager (PBL South Asia), Aalto University, Finland	10 <sup>th</sup> - 11 <sup>th</sup> Oct, 2019
Mr. Hajime Shirai and Mr. Akihiro Shimizu, Society of Experts for Construction Equipment (SECONEQ), Japan	11 <sup>th</sup> Aug, 2019 - 12 <sup>th</sup> Aug, 2019

## STAFF UPDATE

## NEW APPOINTMENT

Ms. Chimi Dem, Asst. Lecturer, Department of Electrical Engineering
Ms. Dheynday Zangmo, Asst. Lecturer, Department of Electrical Engineering
Mr. Sangay Tenzin, Asst. Lecturer, Department of Information Technology
Mr. Sonam Gyeltshen, Lecturer, Department of Humanities and Management
Mr. Pema Dorji, Asst. Lecturer, Department of Electrical Engineering
Ms. Kezang Yuden, Asst. Lecturer (Contract), Department of Civil Engineering & Surveying
Ms. Kinley Wangmo, Associate Lecturer (Contract), Department of Humanities and Management
Professor Hajime Shirai (Adjunct Faculty), Department of Civil Engineering & Surveying
Professor Akihiro Shimizu (Adjunct Faculty), Department of Civil Engineering & Surveying
Mr. Dorji Tshering, Adjunct Faculty, Department of Civil Engineering & Surveying
Mr. Ugyen Lhendup, Adjunct Faculty, Department of Civil Engineering & Surveying
Mr. Ngawang Choje, Asst. Research Officer, Office of DRIL
Ms. Rinchen Pema, Library Assistant, Administration & Management
Mr. Jamyang Loday, Cook, Estate
Ms. Sonam Gyelmo, Store Keeper, Estate
Mr. Sonam Jamtsho, Security Guard, Estate
Ms. Tendin Zangmo, Gardener, Estate

## RESIGNATION

Ms. Tashi Choden, Asst. Lecturer, Department of Civil Engineering & Surveying
Ms. Namgay Zangmo, Asst. Research Officer, Office of DRIL
Mr. Tobgay, Security Guard, Estate
Late. Mr. Rinchen Penjor, Security Guard, Estate



Students from Aalto University, Finland and IIT Bombay, India to work with JNEC students on PBL based projects

### International Linkages

An online meeting via video conferencing was held between the Academic Project Coordinators of Jigme Namgyel Engineering College and the Faculty & Students of Sustainable Global Technologies Studio Course of Aalto School of Engineering, Department of Built Environment, Aalto University, Finland on Nov 20, 2019.

JNEC is working towards hosting international students and their mentors from Aalto University, Finland and the Indian Institute of Technology Bombay (IITB), India to work with JNEC staff and students on PBL based case studies in Bhutan. This activity is a part of the European Union Project titled “Strengthening Problem Based Learning (PBL)



European Exchange Students for PBL case study introduced with Bhutanese host facilitators

in South Asian Universities” in which, JNEC is one of the partners. The international students would collaborate with students of JNEC for a period of two weeks on PBL based projects. The thematic areas of case studies were chosen based on the relevance and their benefits to the community in Samdrup Jongkhar and nearby

Dzongkhags. The student case studies would involve surveys, designs, development of prototypes, field visits, problem solving, critical thinking and also engage the local government, Civil Society Organizations, NGOs and the community in and around Samdrup Jongkhar Dzongkhag.

JNEC in National Media - Extract for Kuensel dated 28<sup>th</sup> October, 2019

**Mobile app to ease blood donation -The app provides real time interaction between donors**

### Academic Development

Quite often, we see people requesting for emergency blood donations online.

While we see many interested donors responding, most of the time the blood type do not match. And other times there are issues of locations, where the interested donor is in a different dzongkhag.

To address these issues, students and staff of Jigme Namgyel Engineering College (JNEC) in Dewathang, Samdrup Jongkhar developed a mobile application Save Live by Donating Blood (SLDB), which provides realtime link between the blood donor and recipients.

SLDB app, according to associate lecturer Younten Tshering, allows users to view detailed information of donors and enable real time communications as and when emergency occurs.

The project is developed as a part of the college's Centre for Appropriate Technology (CAT) project, which aims to enhance the living standard of the society.

#### How does it work?

Interested blood donor can register filling their required details. The details include name, age, gender, blood group, contact number and location, among others.

Once registered, Younten Tshering who is also

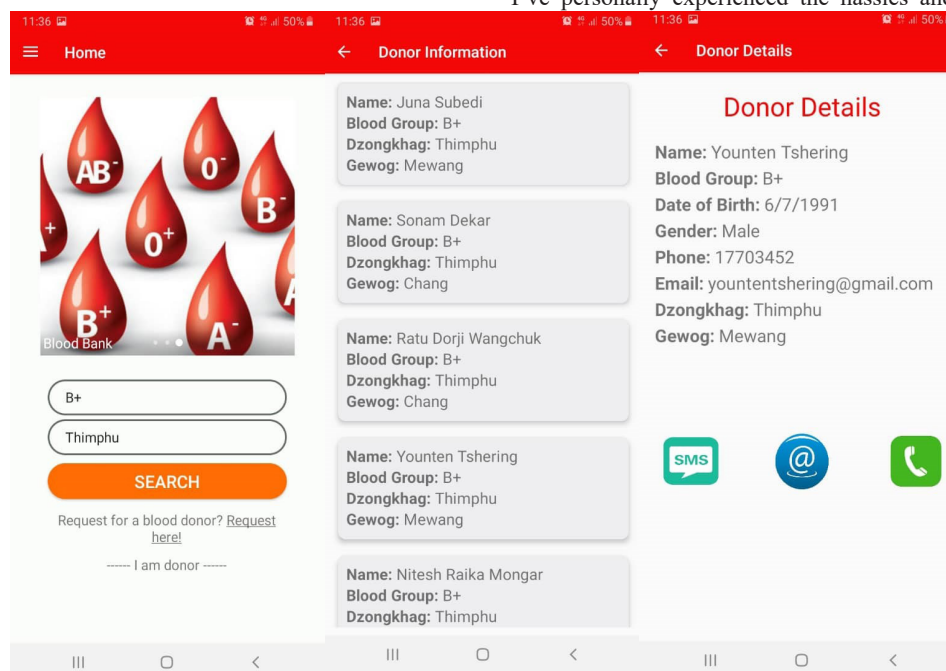
the developer of the app said that any blood donation seeker could have access to a host of donors via the app.

Another feature to the app is placing request for donation in advance. Any user of the app, not just the registered members can view these requests and can make donations if interested,

platform.

He added that the current blood needs especially during emergency are not met by the blood banks at the hospitals. “That is why we see people requesting for donations online frequently.”

“I’ve personally experienced the hassles and



he said. He said that at many occasions when critical patients are in need of blood, the normal method is to route through their family, friends, social media and community, among others.

“This process is observed to be time consuming and might lead to health risks of the patient,” he said, adding that even through accessible information and technology and available social media platforms, people find challenges in receiving blood donor in absence of such

inconveniences involved in the current practice of seeking blood donations online,” he said. “We at JNEC hope that this app helps ease these problems for patients and their relatives”

Meanwhile, the app was presented at the 5<sup>th</sup> International Conference on Medical and Health Sciences 2019 on October 26 in Thimphu.

The app is currently available for android platforms.





*Sunset view of JNEC captured by Mr. Ugyen Thinley, student of Diploma in Civil Engineering, for Annual Photo Exhibition 2019*

### Annual College Sports Day

All individual event winners were awarded with medals and certificates. After the total evaluation team first year Civil Engineering won the Sports day trophy for scoring highest point through various sports event and banner design. The joyous day ended with *tashi laybay*.

*“Winners never quit and quitters never win.”*

– Vince Lombardi



*JNEC girls run for 100m dash*

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