



Bulletin of Institute of Science and Technology 2019

(An Official Publication of Dean's Office, Institute of Science and Technology, Tribhuvan University)

विज्ञान तथा प्रविधि अध्ययन संस्थानको बुलेटिन
२०७५



Institute of Science & Technology Examination Section (Ground Floor)

EDITORIAL

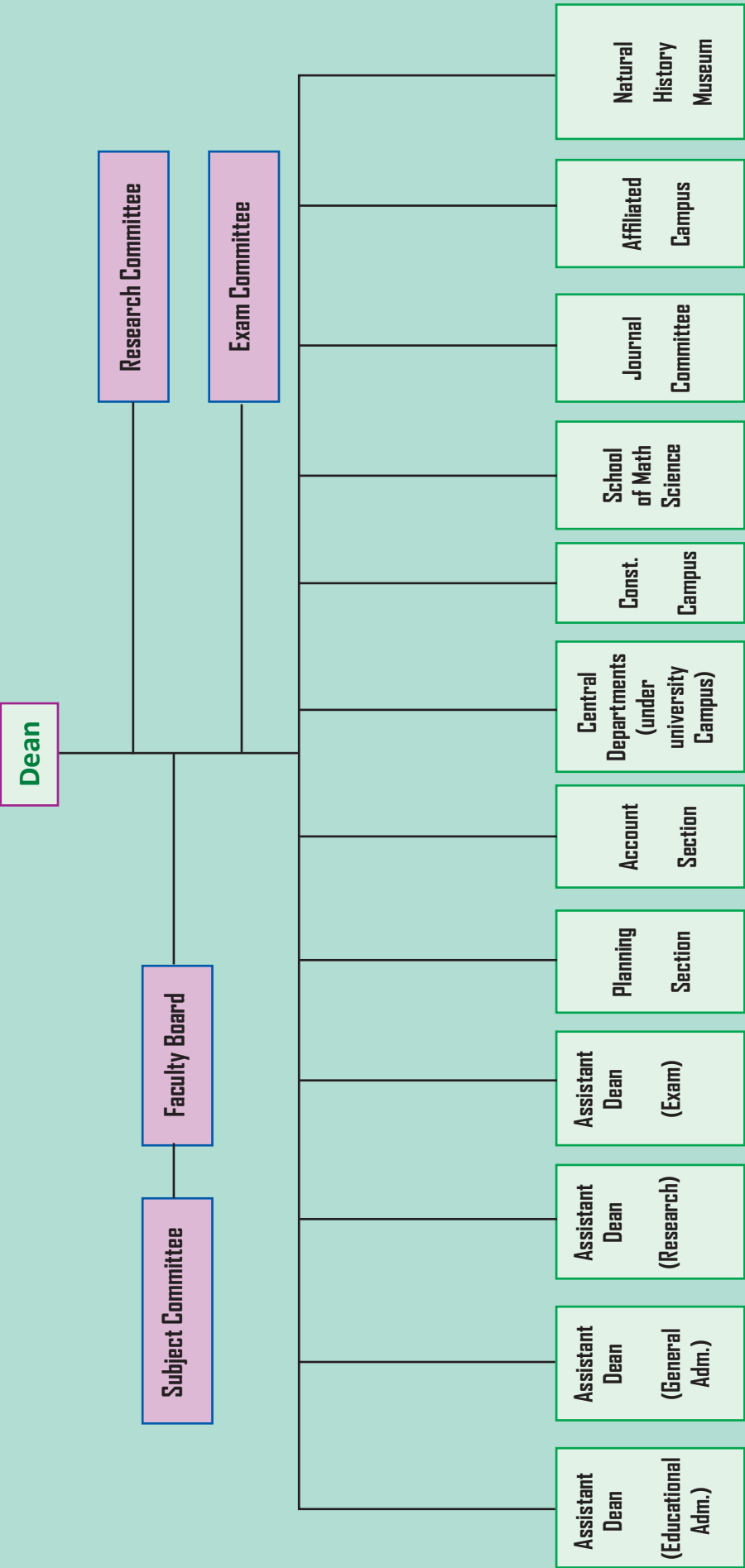
Research is a fundamental way to advance knowledge. Where there is no research, no new thing can be achieved. Research also requires collaborative and inspirational materials. Our Faculties are conducting research, innovating new fact and making their work public through the journals. All these activities will make special contributions to the academic advancement, which are necessary for the growth of the institution's dignity too. This bulletin is being published by IoST to provide information about the work done by various bodies and make public all the work done under Institute of Science and Technology for the last year.

This bulletin is an official publication of the Dean's office of Institute of Science and Technology, Tribhuvan University, has been started to publish from 2018. This issue includes the information related to the structure and a brief profile of IoST, programs offered and

activities completed within the year, list of PhD holders and the list of papers presented by the teachers of IoST, activities completed by Central Departments and campuses and so on. This bulletin includes information related to various central departments and campuses under IoST. The information about the activities of some campuses could not obtain for this bulletin. Hope that we can include all the information of units within IoST in the coming issues.

At last, we would like to thank all supporting hands including the central departments, campuses, employees, who made available the necessary material for the bulletin. Our sincere thanks also go to friends who involved in computer setting, printing and who made easy to get this issue available in our hands. We also invite comments and suggestions from all concerned persons for its improvement in coming issues.

Institute of Science & Technology, TU
Structure



A Brief Profile of Institute of Science and Technology, Tribhuvan University

a) Introduction:

The Institute of Science and Technology (IoST) is one of the oldest, largest & pioneering technical institutes in Tribhuvan University. It was established in January 2, 1989, as an Institute of Science and Technology. Before that it was as an "Institute of Science" and for some years it was also as faculty of Science of Tribhuvan University. Previously it was situated at Sanothimi, Bhaktapur and now it is at Kirtipur, Kathmandu.

IoST has 13 central departments, 1 school, 25 constituent campuses and 103 affiliated campuses. 13 central departments run regular 15 Master's program and PhD programs in all subjects. Out of 25 constituent campuses under IoST, 9 campuses run both the Bachelor's and Master's level programs, one campus runs only Master degree program and remaining all run Bachelor degree programs. Some campuses have given space for conducting PhD research programs for the candidates who enrolled in the respective central departments.

b) Vision and Objectives

IoST intends to promote the quality of its departments and campuses by setting up well equipped laboratories, libraries, infrastructures along with by employing skilled human resources and by providing advisory services in close collaboration with national and international agencies.

Its efforts are to improve teaching learning activities, enhancing research strength of the faculties and students within this institute and make all the departments as a centre of excellence. Ultimately, it aims at creating a scientific values and culture in society and improving the quality of life of the people.

The main objectives of IoST are:

- Making efforts to make science and technology valuable for human beings to satisfy many basic human needs and improve their living standards.
- To produce / develop highly skilled human resources from this institute.
- To introduce, promote and implement new subjects in departments and colleges.
- To provide infrastructures / facilities for research and teaching.
- To mobilize resources for overall development of science & technology.
- To establish linkages with the national and international organizations for collaborative work in the areas of science & technology,
- To organize seminars, workshops, conferences, trainings, orientations and refresher courses at all levels.

c) Programs and Courses Offered

Bachelor Level		Maters level	M. Phil	Ph. D.
Yearly System (4 years)	Semester System (8 semesters)	Semester System (4 semesters)	Semester System (4 semesters)	(2 Semesters + Research)
<ul style="list-style-type: none"> • B.Sc. Genaral • B. Tech. (Food) 	<ul style="list-style-type: none"> • B.Sc. (CSIT) • B. Math Sc. • B.Sc. (Nutrition & Dietetics) 	<ul style="list-style-type: none"> ■ M.Sc. CSIT ■ M.Sc. Mathematics ■ M.Sc. Microbiology ■ M.Sc. Environmental Science ■ M.Sc. Statistics ■ M.Sc. Biotechnology ■ M.Sc. Biodiversity and Environmental Management ■ M.Sc. Physics ■ M.Sc. Chemistry ■ M.Sc. Zoology ■ M.Sc. Botany ■ M.Sc. Geology ■ M.Sc. Hydrology & Meteorology ■ M.Sc. Engineering Geology ■ M.Tech. Food Technology 	<ul style="list-style-type: none"> • M. Phil. (Math). 	<ul style="list-style-type: none"> • Biotechnology • Botany • Chemistry • CSIT • Environmental Science • Food Technology • Geology • Hydrology & Meteorology • Mathematics • Microbiology • Physics • Statistics • Zoology.

d) Admission Policy

- a) Bachelor Level (Yearly System): Based on entrance exam (September) / Annual entry/ Class starts at November
- b) Bachelor Level (Semester System): Based on entrance exam (September) / Annual entry (only one entry in a year) / Class starts at November
- c) Master Level (Semester System): Based on entrance exam (January / February) / Annual entry (only one entry in a year) / Class starts at March/ April.
- d) M. Phil (Semester System): Based on entrance exam (January / February) / Annual entry (only one entry in a year) / Class starts at March/ April.

- e) Ph D. (2 Semesters + Research) (at least 3 yrs):

Admission: opens (July / August),

Basic needs: NOC or pre-agreement (from employer)

- Enrollment steps:
1. Supervisor's & Department's consents
 2. Proposal submission at concerned central departments (September)
 3. Entrance exam (September)
 4. Proposal defend and approval at concerned central departments

(All above mentioned 4 steps have to complete within September to Mid_November)

Annual entry (only one entry in a year) / Admission on December / Class starts at February 1st week

e) Evaluation System

- a) Bachelor Level (Yearly System): Yearly Examination from the office of the Controller of Examination (Theory + Practical), almost 50% practical in each year.
- b) Bachelor Level (Semester System): 40% internal evaluation + 60% external exam through Dean's Office.
- c) Master Level (Semester System): 40% internal evaluation + 60% external exam through Dean's Office, results in grading system.
- d) M Phil (Semester System): 40% internal evaluation + 60% external exam through Dean's Office, results in grading system.
- e) PhD Level (Semester System): For first two semesters (40% internal evaluation + 60% external exam, results in grade sheet), biannual evaluation of research progress in the departments, Pre viva at concerned department after submission of thesis, evaluation of thesis by three external examiners, Viva-Voce exam.

Note: Internal exams for all levels are based on: Attendance / Assignment work / Oral test / Class test / Presentation / Class seminar / Project work/ Term exam etc.

f) Research activities

Faculty Research: Institute of Science and Technology, Tribhuvan University provides mini research grant for the faculties who are working within this institutes. This scheme started from the year 2015 and every year the number of grant awardees are increasing. In the year 2018, 22 faculties were selected for such grant on the basis of their research proposal. Each selected faculty gets an amount of Rs. 50,000. They have to complete their work within the month of June 2019.

Research Project: Currently, Institute of Science and Technology has a project entitled "Scope and Opportunities of Science and Technology Education in Nepal: A Study on the Possibilities and Challenges of Expanding the Access" which is a special research project granted by UGC. This project is at the phase of completion. The agreement was made on 24 January, 2018.

Collaborative research: For the description of the collaborative (national and international) research of the faculties and departments, please visit the *websites of central departments*.

g) Relations:

IoST has given high priority to collaborative exchange programs for strengthening capacity of the faculty, researcher, student and staff. For this purpose, IoST and the central departments have established linkages and coordination with different ministries, national and

international organizations and academic institutions. IoST itself has more than 30 MoUs with different institutions and universities. Till 2018, IoST have produced 146 PhDs in different subjects of Science from this institution. Also, It has provided facilities to so many faculties for doing PhD and Post Docs going abroad.

h) Publications

- i. Institute of Science and Technology is bi-annually being publishing a peer-reviewed multidisciplinary science journal “Journal of Institute of Science & Technology (JIST)”. In the year 1978 it was started to publish with the name “Journal of Institute of Science (JIS)”. JIS has been transformed to the name “Journal of Institute of Science and Technology (JIST)” after the 7th volume published in 1984. From 1989 to 2001 the publication interrupted and from 2002 to 2012 it was published in every two years’ interval. From 2013 onward it is published two issues in a year. Initially it was only in the printed form and from the year 2017 it is available online.

JIST publishes original research papers, review articles, short communications/reports, comments and letters to the editor on all topics of different

subjects of science and technology. It covers the field of Botany, Chemistry, Computer Science, Environment, Geology, Hydrology/Meteorology, Mathematics, Microbiology, Physics, Statistics, Zoology, Food Technology and allied areas. Author(s) should declare that the submitted work has not been published and is not being considered for publication, elsewhere.

JIST is indexed in Nepal Journals Online (NepJOL), which provides online publication. It is rated TWO-STARs by Journal Publishing Practices and Standards (JPPS) (assessed: 2019-01-14). Its eISSN number is 2467-9240 and in the current issue of the journal each articles have got DOI number. Till date, it has published 23 volumes. The current issue is Vol. 23, (2018). Current issue can be found clicking <https://www.nepjol.info/index.php/JIST/issue/view/1568>

- ii. IoST yearly publishes a bulletin compiling the activities within the institute. It gives information regarding central departments and campuses of IoST. It collects and presents the information on yearly activities and publications in periodicals by the faculties of IoST. It is the second issue of the bulletin.

i) Further Programs/ Courses to be Developed

The Academic Council of Tribhuvan University has already approved some new degree/ program / course to run within the Institute of Science and Technology. For the degree approved programs, IoST has developed the syllabus for launching the new programs in coming days. The statuses of such programs are given below.

Degree	Full Name	Status	Remark
BIT	Bachelor in Information Technology	Degree approved, course developed and approved	Starts in 2019
M.S. IMS	M.S.in Integrated Mountain Study	Degree approved, course structure approved / course in progress	
M. EHD	Master in Environmental Health in Disaster	Degree approved / course structure approved/ course in progress	
MIT	Master in Information Technology	Degree approved	
M.Sc. Virology	M.Sc. Virology	Degree approved	
M. Math Sc.	Master in Mathematical Sciences	Degree approved	
M. CS	Master in Cyber Security	Degree + course structure approval procedure	
M.Sc. Material Science	MSc in Material Science	Degree + course structure approval procedure	
M.Sc. Biochem	MSc in Biochemistry	Degree + course structure approval procedure	
M. Data Science	Master in Data Science	Degree + course structure approval procedure	

Authorities and Staff of IoST Dean's Office

Authorities

S.N.	Name	Post	Email address
1.	Prof. Dr. Ram Prasad Khatiwada	Dean	ramktd@gmail.com
2.	Prof. Dr. Ram Narayan Jha	Assistant Dean	ramnarayan_jha@yahoo.com
3.	Prof. Dr. Shambhu Prasasd	Assistant Dean	greenrevolution1980@gmail.com
4.	Dr. Khageshwar Mandal	Assistant Dean	khageshwarmandal@gmail.com
5.	Mr.Tej Bahadur BC	Assistant Dean	btejbhandari@gmail.com

Supporting Staffs of Dean's Office, IoST

S.N.	Name	Post	Section
1.	Rama Bajracharya	Deputy Administrator	Exam
2.	Lina Joshi	Deputy Administrator	General Administration
3.	Krishna Hari Acharya	Section Officer	Planning, Personnel Administration
4.	Kushu Ghale	Section Officer	Exam
5.	Raju Thapa	Account Officer	Account
6.	Indumaiya Rajopadhya	Head Office Assistant	Research
7.	Mukunda Prasad Dulal	Head Office Assistant	Store
8.	Bimala Pokharel	Head Office Assistant	Personnel Administration
9.	Binod Koirala	Head Office Assistant	Exam
10.	Ram Prasad Wagle	Head Office Assistant	Exam
11.	Sangita Shrestha	Head Office Assistant	Exam
12.	Nilu Shrestha	Head Office Assistant	P.A. (Dean)
13.	Upendra Subedi	Head Office Assistant	Administration
14.	Anju Dawadi	Head Account Assistant	Account
15.	Sabina Khadka	Head Technical Assistant (Computer)	Exam
16.	Urmila Maharjan	Head Technical Assistant (Computer)	Exam
17.	Sweta Tuladhar	Head Technical Assistant (Computer)	Account
18.	Meena Shrestha	Office Assistant	Administration
19.	Jaluram Chaudhary	Technical Assistant (Computer)	Exam
20.	Asmita Dahal	Technical Assistant (Computer)	Exam
21.	Sunita Koirala	Memographar	Administration
22.	Krishna Bahadur Tamang	Senior Office Helper	Exam
23.	Maina Pode	Senior Office Helper	Administration
24.	Binabati Tamang	Office Helper	Administration
25.	Basu Dev Thapa	Office Helper	Administration
26.	Mohan Maharjan	Office Helper	Administration
27.	Krishna Khatri	Office Helper	Exam
28.	Hum Kumari Baral	Office Helper	Administration
29.	Rita Lamichhane	Office Helper	Exam
30.	Roshan Tamang	Driver	Administration
31.	Mega Raj Shrestha	Driver	Exam
32.	Buddha Maharjan	Driver	Administration

Recent Activities of IoST

a) Refresher workshop on Teaching and Research Methodology

IOST organized a two days 'Refresher Workshop on Teaching and Research Methodology' in collaboration with RECAST and Kathmandu Center for Research and Education- Chinese Academy of Sciences (KCRE –CAS) from 31 August to 1 September, 2018. The Newly appointed teachers for Institute of Science and Technology, through open competition of TU service, were participated in the refresher workshop. This program was held in Gaidakot, Nawalparasi.

In this program, various experts trained the participants about research methodology, teaching method, semester system. The number of participants was 34 from various constituent campuses of out of valley. Chief Guest, Mr. Dilli Ram Upreti, Registrar of TU, explained that TU is giving special priority to science and technology. He suggested the newly-appointed teachers to join hand in hand for the educational promotion of the university and to engage in research with high priority. Dean of IoST, Prof. Dr. Ram Prasad Khatiwada expressed his views hoping that the new faculties will able to be pathfinder for the future of science and technology. He added that this interactive workshop will help to IoST to create 'a successful science education environment' in university.

b) Dean's Visit to Beijing and Participation to ANSO

In an invitation of KCRE- Chinese Academy of Science, Dean of IoST Prof. R.P. Khatiwada visited Beijing, China during 1-8 November, 2018. In this visit he discussed with CAS authorities regarding the 4 year's developments and achievements of 'Kathmandu Centre for Research and Education' in 2 November.

He participated in the first General Assembly of the Alliance of International Science Organizations (ANSO) in the Belt and Road Region in 3-5 November. Particularly, he joined the session of ANSO- Environment and Green Development. Also, he actively contributed to the Second International Science Forum of National Scientific Organizations on the Belt and Road Initiative.

c) Dean's Visit to different Universities of Taiwan

Dean of IoST, Prof Dr. R.P. Khatiwada visited four different universities of Taiwan during December 06 – 15, 2018. The invitation was from Department of

Biomedical Engineering and Environmental Sciences, National Tsing Hua University, Taiwan. In this visit, he participated in an International workshop on "Sustainable Environment and Energy Development (SEED)".

Prof. Khatiwada had been involved in the discussion with authorities of several universities for students / faculty exchange program and mutual relationship. The universities were: a) National Tsing Hua University (NTHU), b) National Chiao Tung University (NCTU), c) National Chung Hsing University (NCHU) and d) National Central University (NCU).

Also, during his visit Prof. Khatiwada interacted with various participants and authorities who were present in the workshop from the several universities of Philippines, Thailand, Myanmar, Cambodia, Laos and India.

d) Annual Program of IoST

Institute of Science and Technology, TU was organized its 31st anniversary program at Smriti Bhawan, TU, in 3 January 2019. Addressing the annual day celebration, Rector of TU, Prof. Dr. Sudha Tripathi said that the country would be developed only by the development of science and technology. She added, for this, the role of IoST is crucial and she hoped that it would be successful for the leadership of science and technology in the coming days. Registrar Dillimram Upreti in his addressed that TU has given high priority to the science, arranged adequate budget and created research labs and also provided assistance in physical infrastructure. Dean of IoST Prof. Dr. Ram Prasad Khatiwada urged all departments to contribute in the research, research publications and patent works for increase the scope of the university. In that program, Campus Chiefs of different campuses, Head of the central departments, Chiefs of the different division of TU, faculties and staff of the Dean's Office were present. Assistant Dean Prof. Dr. Ram Narayan Jha, Prof. Dr. Shambhu Prasad, former Dean Chirika Shobha Tamrakar, Prof. Dr. Nilam Kumar Sharma, Mr. Mukunda Prasad Dulal and various Heads of the department also expressed their views in the program. On this occasion Head Office Assistant Bimala Pokhrel and Head Account Assistant Anju Dawadi were honored with Dosalla and Certificate of long service. This program was conducted by Head Office Assistant Mr. Upendra Subedi.

Academic Calendar for Masters Level (2019-20)
(for the 2075 semester admission)

2076-77 (B.S.)	Activity
4 th Week, Chaitra 2075	FIRST SEMESTER BEGINS
	SUMMER VACATION (22 Days)
2 nd Week, Ashadh	Form filling Notice by dean Office (First Semester)
2 nd Week, Shrawan	Final Exam Routine will be Published
1 st Week, Bhadra	Final term & Practical Exam should be Completed
First Semester Final Exam Preparaton Leave (around 10-14 days)	
3 rd Week, Bhadra 2076	First Semester Final Examination Begins
12 Ashwin – 16 Kartik	Dashain – Tihar Holiday (SEMESTER BREAK)
2 nd Week, Kartik 2076	SECOND SEMESTER BEGINS
4 th Week, Mansir	First Semester Result will be Published
	WINTER VACATION (23 Days)
2 nd Week, Magh	Form Filling notice by Dean Office (Second Semester)
2 nd Week, Falgun	Final Exam Routine will be Published
2 nd Week, Chaitra	Final term & Practical exam should be completed
Second Semester Final Exam Preparation Leave (around 10-14 days)	
4 th Week, Chaitra 2076	Second Semester Final Examination Begins
	SEMESTER BREAK (about a week)
3 rd Week, Baishakh 2077	THIRD SEMESTER BEGINS
	SUMMER VACATION (22 Days)
1 st Week, Shrawan	Second Semester result will be Published till this date
2 nd Week, Shrawan	Form Filling notice by Dean Office (Third Semester)
2 nd Week, Bhadra	Final Exam Routine will be Published
4 th Week, Bhadra	Final term & Practical exam should be completed
Third Semester Final Exam Preparation Leave (around 10-14 days)	
3 rd Week, Ashwin 2077	Third Semester Final Examination Begins
1 Kartik - 2 Mansir	Dashain - Tihar Holiday (SEMESTER BREAK)
1 st Week, Mansir 2077	FOURTH SEMESTER BEGINS
4 th Week, Poush	Third Semester Result will be Published
	WINTER VACATION (23 Days)
3 rd Week, Magh	Form Filling notice by Dean Office (Fourth Semester)
3 rd Week, Falgun	Final Exam Routine will be Published
3 rd Week, Chaitra	Final term & Practical exam should be completed
Fourth Semester Final Exam Preparation Leave (around 10-14 days)	
4 th Week, Chaitra 2077	Fourth Semester Final Examination Begins
Fourth Semester Result will be Published within 4th week of Ashadh 2078	
Duration:4th Week Chaitra 2075 to 4th Week Chaitra 2077 : M.Sc. Four Semester Calendar	

Candidates Selected for Mini-Research in 2018 (2075/076)

The Institute of Science and Technology awarded grants for mini research to the following 22 candidates (teachers), in the year 2018, by evaluating the proposals received to the IoST from Central Departments and different campuses where the programs of IoST is running. Each individual gets an amount of Rs 50 thousand for his/ her mini research.

Inside Kathmandu Valley

S.N.	Name	Campus/Depart.	Title
1.	Nabanath Budhathoki	Amrit Campus	Change in bond length between carbon atoms and binding energy of graphene due to the adsorption of manganese atom.
2.	Yam Prasad Dahal	Bhaktapur Multiple Campus	Quality assurance of high dose rate (HDR) brachytherapy at Bhaktapur Cancer Hospital.
3.	Gayetri Prasad Adhikari	Trichandra Multiple Campus	Damage formation and calculation of energy loss during implantation of antimony (Sb) ion in the silicon target.
4.	Santosh Gyawali	Central Department of Mathematics	Fundamental theorems in real analysis and their applications.
5.	Santu Shrestha	Amrit Campus Biotechnology	Green synthesis and characterization of manganese nanoparticles using Banana Peels extracts and evaluation of antibacterial activity.
6.	Khim Prasad Panthi	Trichandra Multiple Campus	Synthesis of composites of silica extracted from Rice Hull Ash (RHA).
7.	Arina Sthapit	Central Dep of Hydrology and Meteorology	Climate change Risk analysis in Agriculture in Indrawati Watershed of Nepal.
8.	Shiva Kumar Mahato	Trichandra Multiple Campus	The role of renewable energy to reduce the greenhouse effects and its contribution to a clean environment in Nepal.
9.	Pitambar Dhakal	Central Dep. of Zoology	Coprolological survey of Gastrointestinal Parasites in captive mammals at Central Zoo, Lalitpur Nepal.
10.	Sunita Shrestha	central Dep. of Botany	Study of antibacterial activity of some plants leaves (Lemongrass, Guava and Tulsi) on gram positive and gram negative bacteria.
11.	Roshani Maharjan	Trichandra Multiple Campus	Bacteriological analysis of bottled drinking water sold in Kathmandu Valley.
12.	Alina Shree Sapkota	Central Dep. of Biotechnology	Study of Serum Magnesium in overweight and obese individuals.

Out of Kathmandu Valley

S.N.	Name	Campus/Depart.	Title
1.	Narayan Datta Bastakoti	Prithivi Narayan Campus, Pokhara	An Ethnobotanical study of medicinal plants used by Kumal and Gandharva community of Pokhara Metropolis, Kaski, Nepal.
2.	Teelmaya Dhakal	Siddhanath Science Campus, Mahendranagar	Assessment of Physico-chemical parameters and plant diversity: A case from Bedkot Lake, Kanchanpur, Nepal"
3.	Rajendra Bahadur G.C.	Butwal Multiple Campus	Determination of concentration of toxic heavy metal lead and different ions available in the outdoor air of Bhairahawa and its' surroundings.
4.	Dil Bahadur Limbu	Central Campus of Technology, Dharan	A study of thermodynamic parameters of cetyltrimethyl ammonium bromide and methyl orange in methanol-water binary mixture by absorption spectroscopy.
5.	Chabilal Bhusal	Tribhuvan Multiple Campus Plapa	A study on the application of laplace transform in differential equation.
6.	Roma Ghimire	Central Campus of Technology, Dharan	Study on factors affecting academic achievement of bachelor's level students in constituent campuses of TU, IOST in province no.1, Nepal.
7.	Richa Bhattarai	Central Campus of Technology, Dharan	Effect of cooking methods on glycemic index of Rice.
8.	Sabit Shrestha	Birendra Multiple Campus, Bharatpur	Geological and morphological setting along the Arunkhola area, Nawalparasi District, sub-Himalaya, Nepal.
9.	Ram Sovit Yadav	Central Campus of Technology, Dharan	Extraction and optimization of potato starch and its application as a stabilizer in yoghurt manufacturing.
10.	Mahalaxmi Pradhananga	Central Campus of Technology, Dharan	Effect of roasting on the physico-chemical and nutritional parameters of flaxseed .

Chronological List of Ph.D. Degree Awarded From IoST {till 2018}

S.N.	Name	Subject	Title	Date of Completion
1.	Shiva Shanker Singh	Zoology	...Some helminth parasites of the vertebrates from Kathmandu valley	1970
2.	Binu Lohani	Chemistry	Synthesis of coordination complex inorganic compound.....	1975
3.	Jiwan Shrestha	ZoologyStudies on freshwater fishes of Nepal.	1976
4.	Tej Kumar Shrestha	Zoology	...Studies on seasonal cycle of two fishes of Nepal	1976
5.	Yugal Krishna Malla	ZoologyStudies on the nervous and neurosecretory systems of the mature larva, pupa and adult of <i>Euxoa segetum</i> Schiff (Lepidoptera: Noctuidae)	1977
6.	Prayag Man Khwanju	Botany	Cytotaxonomical Studies on the Polypodiaceous ferns of Bagmati Zone	1979
7.	Krishna Prasad Awal	Chemistry	Physiochemical Studies on the Interaction of dyes with some local clays	1981
8.	Vasant Kumar Thapa	Zoology	Tadellidae: Taxonomic studies on the Typhlocybinae leaf hoppers (Homoptera; Cicadellidae: Typhlocybinae) of the Kathmandu Valley.	1981
9.	Krishna Chandra Shrestha	Zoology	... Studies on the histophysiology of the male genitalia of some rodents of Nepal with reference to the reproductive behavior.	1984
10.	Pradyumna Prasad Wagle	Chemistry	The ISO flavonoid constituents of <i>Sophora Moorcroftiana Benth</i>	1985
11.	Shiv Ram Vaidya	Chemistry	Deethionylation of the oxides of 2-5 dephenyl 1,4 , dithin system	1985
12.	Bina Ranjan Ghimire	Math	Mathematical Modelling of the surface layer with some potential applications with special reference to Nepal.	19/02/1990
13.	Kedar Nath Baral	Physics	A study on the electrical behaviors of Kathmandu Thunderstorms.	24/12/1990
14.	Gajendra Bahadur Thapa	Mathematics	John constant for polynomials.	10/03/1991
15.	Shanti Bajracharya	Mathematics	Analytical and group theoretic study of some special functions	24/02/1995
16.	Shyam Ratna Shakya	Botany	Cytogenetical studies in the genus <i>Primula</i> L. and its allies of Nepal Himalayas	29/11/1992
17.	Sushila Bhattarai	Botany	Cytotaxonomical study and breeding behavior in some orchid genera of Nepal.	24/06/1993
18.	Pooran Prasad Shrestha	Chemistry	Phytochemical studies on the cyanogenic plants of Nepal.	16/04/1996
19.	Mukesh Kumar Chalise	Zoology	Comparative study of feeding ecology and behaviour of male and female langurs (<i>Presbytis entellus</i>)	17/02/1997
20.	Bharat Mani Pokhral	Microbiology	Clonal analysis of <i>Haemophilus influenzae</i> .	17/07/1997
21.	Tara Keshari Rajbhandari	Botany	Cytotaxonomical studies in the genus <i>Arisaema</i> Mart and its allies of Nepal.	27/07/1998
22.	Rochana Maiya Joshi	Botany	Mycotoxigenic fungi and their metabolite or derivative in Corn grown in Nepal	16/05/2000
23.	Pramod Kumar Thakur	Geology	Geomorphological evolution and environmental assessment of the Arun River valley watershed. Eastern Nepal.	26/06/2003
24.	Jeevan Jyoti Nakarmi	Physics	Study of Magnetic field generation and its effect on the energy transport in the corona of laser fusion plasma.	26/09/2000
25.	Lokesh Ratna Shakya	Botany	Revision of the genus <i>Oberonia</i> Lindl. (Orchidaceae) in the Himalayas.	26/09/2000
26.	Nanda Bahadur Maharjan	Physics	Study of phase transformations in Chalcogenide glasses.	19/06/2003
27.	Kanti Shrestha	Chemistry	Phytochemical and biological studies on some Himalayan high altitude medicinal conifers of Nepal.	22/05/2003
28.	Shashi Nath Jha	Botany	Ecological study of some grasses and forbs of Morang District, Nepal	25/12/2003

S.N.	Name	Subject	Title	Date of Completion
29.	Chanchal Kumar Chakrabarti	Geology	Geology and geochemistry of the Zinc-lead deposit of Ganesh Himal, Central Nepal Himalaya.	18/12/2003
30.	Anjali Maiya Shrestha	Botany	The study on the diversity of trifolium repens L.(white clover) in Nepal.	25/09/2003
31.	Lochan Prasad Devkota	Hydrology and Meteorology	Climate variability over Nepal : observation, forecasting, model evaluation and impacts on agriculture and water resources.	25/05/2005
32.	Chinta Mani Pokhrel	Mathematics	Convexity preservation for analytic harmonic and plane curves.	16/02/2005
33.	Kalu Ram Rai	Zoology	Environmental impacts, systematics and distribution of herpetofauna from East Nepal.	30/03/2005
34.	Devendra Man Bajracharya	Botany	The genus <i>Eria</i> Lindley (Orchidaceae) in the Himalayas – A taxonomic revision	27/06/2005
35.	Shambhu Prasad	Statistics	Models for estimating infant mortality rates for Nepal.	25/05/2005
36.	Ram Chandra Prasad	Botany	Studies on screening and biology of some of the potential blue-green algae (cyanobacteria) as a source of biofertilizer from the rice fields of Bagmati and Narayani zones of Nepal	11/05/2005
37.	Chandra Bahadur Thapa	Botany	Ecological study of crop-weed competition with special reference to paddy and various methods of weed control in Pokhara, Nepal	29/03/2005
38.	Kanta Poudyal	Botany	Plant water relation of some selected Himalayan tree species at Phulchowki hill, Kathmandu	29/03/2005
39.	Belai Meeta Singh	Botany	Micropropagation and cultivation of some legume trees of Nepal	15/03/2006
40.	Naresh Kaji Tamrakar	Geology	Petrographic properties and their relationship with Engineering properties of the Siwalik sandstones of central Nepal.	21/03/2006
41.	Kamal Mani Baral	Math	A study on Function space and related topics.	25/07/2006
42.	Sanju Shrestha	Physics	Electronic transport in Bulk and quantized low dimensional semiconductor system.	14/11/2006
43.	Ras Bihari Mahato	Botany	Diversity, use and conservation of Plants in Palpa District, Nepal”	15/03/2007
44.	Mohan Prasad Panthi	Botany	Plant diversity and resource utilization in Arghakhanchi and Manang district, Nepal.	13/05/2007
45.	Buddha Laxmi Vaidya	Botany	Study of cytogenetic diversity in Ranunculaceae	09/07/2007
46.	Laxmi Manandhar	Botany	Cytogenetical studies in the genus <i>Desmodium</i> Desv. and its allies of Nepal Himalayas.	11/07/2007
47.	Suman Bala Srivastava	Botany	Morphotaxonomy of foliicolous hyphomycetes of horticultural plants and their weeds in Nawalparasi and Chitwan districts of Nepal.	2007
48.	Srijan Lal Shrestha	Statistics	Statistical modeling of human health impact assessment linked to air pollution by exposure to different microenvironments.	28/12/2007
49.	Basista Prasad Rijal	Microbiology	Study of multi –drug resistance Tuberculosis in Nepal.	24/01/2008
50.	Narayan Prasad Rai	Chemistry	Phytochemical and biological studies on i) <i>Coriaria nepalensis</i> Wall. Coriariaceae, ii) <i>Sarcococca hookeriana</i> Baillon. Buxaceae and iii) <i>Sarcococca coriacea</i> (Hook.) Sweet, Buxaceae of Nepalese origin.	10/02/2008
51.	Surya Raj Niraula	Statistics	Development of models to identify the risk factors for Drug abuse.	01/09/2008
52.	Madhusudan Man Singh	Zoology	Pollination ecology of common buckwheat (<i>Phagopyrum esculentum</i> M.) in different agroecozones of Nepal with particular reference to the role of the Himalayan Honeybee, <i>Apis cerana</i> F.	17/05/2009
53.	Sajan Amatya	Chemistry	Phytochemical investigation of <i>Eupatorium odoratum</i> L. for cytotoxicity, antimicrobial and antioxidant activities.	19/08/2009
54.	Bishnu Raj Tiwari	Microbiology	Immune status of HIV patients in Nepal.	09/11/2009

S.N.	Name	Subject	Title	Date of Completion
55.	Kumudini Shakya	Botany	Responses of some mosses to toxic heavy metals and their evaluation for biomonitoring	16/11/2009
56.	Baby Sharma	Botany	Responses of some vegetable crops to toxic heavy metals.	10/03/2010
57.	Geeta Shrestha	Botany	Influence of mycorrhizal fungi in stabilising soils subjected to erosion in Nepal.	26/03/2010
58.	Nirmala Pradhan	Botany	Bryoflora of low Nepal : Tarai and Churia Hills.	02/04/2010
59.	Shandesh Bhattarai	Botany	Ethnobotany and antibacterial activities of selected medicinal plants of Nepal Himalaya.	30/04/2010
60.	Deepak Raj Pant	Botany	Transformation of Nepalese cultivars of spring wheat with knotted 1 gene and increase in productivity by delaying senescence of flag leaves.	21/05/2010
61.	Nina Pandey	Botany	Mushroom diversity in Nepal : An ethnomycological"	11/07/2010
62.	Ramola Ranjitkar	Zoology	Ecological study of ichthyofauna in upper Sunkoshi river.	30/07/2010
63.	Jishnu Mohan Bhattarai	Statistics	Determinants of Yield Rates in Nepalese Agriculture by Using Suitable Model for Nepal.	13/09/2010
64.	Bharat Babu Shrestha	Botany	Ecology and Phytochemistry of Selected Medicinal Plants in Central Nepal.	2/12/2010
65.	Sangeeta Rajbhandary	Botany	Systematic Revision of the Genus Begonia L. (Begoniaceae) in the Himalayas	28/12/2010
66.	Shyam Prasad Mahto	Zoology	"Taxonomic Studies on Dung Beetles (Coleoptera: Scarabaeidae: Coprinae) of Dhanusha District, Nepal."	25/03/2011
67.	Keshab Parajuli	Microbiology	Standardization of PCR for the Diagnosis of Malaria in Nepal.	25/04/2011
68.	Raj Man Shrestha	Statistics	Measuring Changes in Cropping Patterns and the Related Factors".	28/04/2011
69.	Ram Prasad Khatiwada	Statistics	Bayesian Modelling Approaches on some Issues of Agro-Food Production and Quality Control	07/07/2011
70.	Anjana Devkota	Botany	Ecophysiological Study of Centella Asiatica (Linn) Urban of Nepal	23/09/2011
71.	Susanna Phoboo	Botany	Ecophysiological Study of Swertia Chirayita, an Important Himalayan Medicinal Plant from Nepal.	27/12/2011
72.	Shree Ram Khadka	Mathematics	Mixed- Model Just –in –time Sequencing Problem	27/01/2012
73.	Armila Rajbhandari (Nyachhyon)	Chemistry	Investigation on Inorganic Salts Based ion Selective Electrodes	03/02/2012
74.	Sudarshan Bhandari	Geology	Plant Macrofossil from the Quaternary Sediments of the Kathmandu Valley and its Paleoclimatic Implications.	05/08/2012
75.	Rejina Maskey	Chemistry	Development of low cost passive sampling diffusion tubes for spatial monitoring of NO ₂ , SO ₂ and O ₃ in Kathmandu Valley	06/08/2012
76.	Krishna Kumar Pant	Botany	In vitro Morphogenesis of Asparagus racemosus Willd. and Rauvolfia Serpentina (L.) Benth. ex Kurz	23/08/2012
77.	Puspa Lal Homagai	Chemistry	Studies on the development of natural cation exchanger for heavy metals removal	14/10/2012
78.	Amita Pradhan	Statistics	Nutritional status among under five children and their mothers with gender perspective	23/12/2012
79.	Gyan Bahadur Thapa	Mathematics	Characterizations of just-in-time sequencing problems with apportionment and supply chain	27/12/2012
80.	Shree Krishna Adhikari	Hydrology and Meteorology	Estimation of Crop Water Requirement of Rice and Wheat Based on Meteorological Data of Hills (Khumaltar, Lalitpur; Lumle, Kaski) and Terai (Khajura, Banke; Bhairahawa, Rupandehi) of Nepal.	29/03/2013
81.	Dhan Bahadur Karki	Food Technology	Improvement on Traditional Millet Fermentation Process and its Brewing Quality Assessment.	20/05/2013
82.	Surendra Bahadur Katawal	Food Technology	Technological and Nutritional Evaluation of Sel -roti.	20/05/2013
83.	Him Lal Ghimire	Statistics	Impacts of Pilgrimage Tourism for Sustainable Tourism Development.	07/11/2013

S.N.	Name	Subject	Title	Date of Completion
84.	Naresh Manandhar	Statistics	Determinants of Primary School Drop out in Chitwan and Nawalparasi.	10/11/2013
85.	Kanchan Prasad Adhikari	Physics	Current Status of Radiation Protection in Different Hospitals in Nepal.	25/05/2014
86.	Indra Bahadur Karki	Physics	Fabrication, Characterization of Zinc Oxide Thin Film Nanorod in Dye-Sensitized Solar Cells and Gas Sensors	16/06/2014
87.	Netra Lal Bhandari	Chemistry	Morphology and Deformation Behaviour of Natural Fibers-Thermoplastics Composites.	18/06/2014
88.	Kabi Raj Paudyal	Geology	Geological and Petrological Evolution of the Lesser Himalaya between Mugling and Damauli, central Nepal.	21/07/2014
89.	Sabina Singh Shrestha	Botany	Floristic Study and Vegetation Analysis of Shivapuri National Park, Central Nepal	07/12/2014
90.	Gopi Chandra Kaphle	Physics	Study of Electronic Structure of Clusters and Disordered Solids"	11/12/2014
91.	Narayan Prasad Ghimire	Botany	Climate Trend and Treeline Dynamics in Nepal Himalaya	15/12/2014
92.	Nilam Shrestha Pradhan	Physics	The Theoretical Study of Multiphoton Ionization of Atom by Multiple Laser Beams	06/03/2015
93.	Sheetal Vaidya Pradhan	Botany	Revision of <i>Anaphalis</i> DC. (Asteraceae: Gnaphalieae) in Nepal Himalaya	15/02/2015
94.	Umesh Koirala	Botany	Ecological study of wetland macrophytes occurring in Morang District of Nepal	19/03/2015
95.	Tirtha Raj Adhikari	Hydrology & Meteorology	Impact of climate change on flow regime in Himalayan Basins Nepal	06/04/2015
96.	Nirmala Joshi (Pradhan)	Botany	Utilization Pattern and conservation status of plant resources of Makawanpur District, Central Nepal	10/04/2015
97.	Jagjit Kour	Chemistry	Functionalization of Biopolymers for the Treatment of Heavy Metals from Aqueous Medium.	09/06/2015
98.	Ram Lal Swagat (Shrestha)	Chemistry	Phytochemical Investigation of corydalis Govaniana Wall. and Corydalis Casimiriana Duthie & Prain Ex Prain with Special Reference to Bioactive Compounds.	16/07/2015
99.	Ram A. Mandal	Botany	Carbon Sequestration Potential in Community Managed Forests in Mahottari, Tarai District of Central Nepal	04/08/2015
100.	Hari Prasad Aryal	Botany	Termitomyces R.Heim (Tricholomataceae) in Nepal: Diversity, Nutrients and Growth	23/08/2015
101.	Bindra Shrestha (Raghubansi)	Chemistry	Studies on the potential application of Bio-waste for Heavy Metals removal from aqueous solution.	25/08/2015
102.	Pushpa Karna Mallik	Botany	Cytogenetical studies on some members of the family asteraceae of Nepal.	22/09/2015
103.	Govinda Tamang	Statistics	Total quality Management Practice and Organizational Performance in Financial Institutions	09/10/2015
104.	Dil Kumar Hangsurung Limbu	Environmental Science	Carbon Sequestration of High Altitude Himalayan Rangelands in Tinjure Milke Jaljale (TMJ) Area, Eastern Nepal.	10/11/2015
105.	Gauri Shrestha	Statistics	The impact of socio-economic and Demographic variables on Maternal Health Behavior: A Statistical Approach.	25/01/2016
106.	Narayan Prasad Koju	Zoology	The Ecology of Pika (Ochotona Species) at Langtang National Park as an Indicator of Climate Change.	28/01/2016
107.	Rajesh Pandit	Chemistry	Templating nanostructures in epoxy resin using styrenic block copolymers.	29/01/2016
108.	Ganesh Raj Pant	Microbiology	Epidemiological study and molecular characterization of Rabies Virus in Nepal.	29/01/2016
109.	Sharmila Pradhan	Chemistry	Correlation between morphology, deformation behavior and filler dimensionality of polyolefin elastomer based nanocomposites	02/02/2016
110.	Sudha Joshi Shrestha	Botany	Taxonomic studies on senecio L.s.l. (Senecioninae: Senecioneae: Asteraceae) of Nepal Himalaya.	24/02/2016

S.N.	Name	Subject	Title	Date of Completion
111.	Urmila Pyakurel	Mathematics	Evacuation Planning Problem with Contraflow Approach	04/03/2016
112.	Ranjan Koirala	Biotechnology	Molecular and probiotic characterization of Lactobacillus Spp. Isolated from Traditionally Prepared Curd (Dahi) at Different Geo-Climatic Conditions of Nepal.	10/03/2016
113.	Deepak Aryal	Hydrology & Meteorology	Pre-Monsoon Thunderstorm: Case Studies of Nepal.	02/05/2016
114.	Arbind Pathak	Chemistry	A Laboratory Scale Synthesis of Geopolymer from Construction Wastes.	09/05/2016
115.	Jyoti Prasad Gajurel	Botany	Effects of Land Use and Climate Change on Gene Flow of <i>Taxus Wallichiana</i> Zucc. (Taxaceae) in Nepal.	10/05/2016
116.	Chuda Prasad Dhakal	Statistics	Optimizing Multiple Regression Model for Rice Production Forecasting in Nepal.	12/05/2016
117.	Tilak Prasad Gautam	Botany	Species Composition, Production and Nutrient Dynamics in Tropical Forest of Sunsari District, Eastern Nepal	29/07/2016
118.	Narayan Prasad Gaire	Environmental Science	Climate Trend and Treeline Dynamics in Nepal Himalaya	29/09/2016
119.	Laxmi Joshi Shrestha	Botany	Role of sacred groves in tree diversity conservation in Kathmandu Valley, Nepal.	08/11/2016
120.	Bhushan Shakya	Chemistry	Synthesis, Characterization and Anticancer Activity of 2-Pyridineformamide Derived Thiosemicarbazones	11/11/2016
121.	Sujit Kumar Sah	Chemistry	Studies on the solution properties of cationic surfactants in alcohol-water mixed solvent media.	21/12/2016
122.	Suman Man Shrestha	Environmental Science	Heavy Metal Contamination in Groundwater Resources of the Kathmandu Valley, Nepal	10/02/2017
123.	Shiv Narayan Yadav	Physics	Spatial Orientation of Angular Momentum of Galaxies in the Clusters and Superclusters	21/04/2017
124.	Manju swari Karmacharya	Chemistry	physicochemical Characteristics of Activated carbon Obtained from waste Tire and its Alumina Composite.	05/05/2017
125.	Khaga Raj Sharma	Chemistry	Screening of some Selected Medicinal Plants of Nepal for their Antioxidant and Anticancer Activities and Identification of Active Compounds	11/06/2017
126.	Shanta Pokhrel	Chemistry	Chitosan Based Polymer Blends: Preparation, Mechanical Properties And Biodegradability	27/08/2017
127.	Shreeti Pradhan	Botany	Mass Propagation and Ex- Situ Conservation of <i>Cymbidium Aloifolium</i> (L.) Sw., A Threatened Medicinal Orchid of Nepal Through Artificial Seed Technology.	22/08/2017
128.	Birendra Prasad Gupta	Biotechnology	Immuno- Molecular Epidemiology of Emerging Viruses in Nepal.	30/08/2017
129.	Nurapati Pantha	Physics	First-Principles and Classical Atomistic Study of Interactions Between Methane and Other Substances.	10/11/2017
130.	Prem Raj Dhungel	Physics	Effect Of Massive Neutrinos And Other Massive Particles On Structure Formation In The Universe	04/02/2018
131.	Sanat Kumar Sharma	Physics	Effect Of Density Fluctuation On Structure Formation In The Universe	05/02/2018
132.	Krishna Raj Adhikari	Physics	Study on daily total solar radiation at different parts of Nepal to develop models and numerical simulation of thin film perovskite- based solar cells hardbinding check ????	18/02/2018
133.	Jivandhar Jnawali	Mathematics	Newton Type Iterative Methods for Solving Nonlinear Equations	18/03/2018
134.	Tulasi Prasad Niraula	Chemistry	Studies on the Behaviour of Anionic Surfactant in absence and presence of monovalent salts in Methanol-water mixed solvent media	26/03/2018
135.	Krishna Prasad Bhattarai	Botany	Decomposition, Nutrient Release in Leaf Litter and N-Mineralization in Sal (<i>Shorea Robusta</i> Gaertn.) Forests of Jhapa and Ilam Districts, Eastern Nepal	08/04/2018
136.	Dharm Raj Bhatta	Microbiology	Phenotypic and Molecular Characterization of Methicillin – Resistant <i>Staphylococcus Aureus</i> (MRSA) Isolates	07/05/2018

S.N.	Name	Subject	Title	Date of Completion
137.	Shashit Kumar Yadav	Physics	Ordering and Segregation in Liquid Alloys	14/05/2018
138.	Basant Kumar Karn	Zoology	Standardization on Appropriate Culture Package of Carp- Small Indigenous Fish Species (SIS) PolyCulture in Nepal	24/05/2018
139.	Reeta Mandal	Chemistry	Isolation and Characterization of Bioactive Compounds from Caragana Species of Nepal	08/06/2018
140.	Narendra Kumar Chaudhary	Chemistry	SYNTHESIS, CHARACTERIZATION AND BIOLOGICAL STUDIES OF 3d- METAL COMPLEXES OF SCHIFF BASES OF AMINOGLYCOSIDES AND β -LACTAM ANTIBIOTICS.	22/07/2018
141.	Roshan Sherchan	Environmental Science	Assessing the Effectiveness of Mountain Conservation Policy and Practices to Improve the Livelihoods of Indigenous Tamang People	03/08/2018
142.	Jagat Bahadur Khadka	Microbiology	Detection of Rifampicin Resistance Genes in Nepalese Mycobacterium Tuberculosis Isolates Using Rapid Molecular Technique	10/08/2018
143.	Prabina Rana	Environmental	Climatic and Altitudinal Impacts on Rhododendron Campanulatum D. Don and Its Endophytic Fungi Assemblage At Tree Line Ecotone, Nepal Himalaya	23/08/2018
144.	Ajay Kumar Jha	Physics	Structures around neutron star and pulsar: A study of shaping mechanism in the ISM	30/09/2018
145.	Pratima Tamrakar	Zoology	Environment Awareness Among the Community on Water Quality Management for Human Beings	03/10/2018
146.	Arvind Kumar Keshari	Zoology	Plant Parasitic Nematodes Associated With Some Vegetable Crops of Bhaktapur, Kavre and Dhading Districts, Nepal	24/12/2018

Number of Ph.D. Enrolled in Different Subjects in the year 2018

Subject	No. of Scholars	Subject	No. of Scholars
Biotechnology	1	Hydrology & Meteorology	2
Botany	6	Mathematics	3
Chemistry	10	Microbiology	5
Food & Technology	2	Physics	11
Environmental Science	3	Zoology	6
Geology	6	Statistics	4

A Brief Profile of Central Departments under IoST

SN	Central Department of	Location	Phone	Academic Program	Name of HOD/ Director	email of HOD/ Director
1	Biotechnology	Kirtipur	4336221	M. Sc., Ph. D.	Prof. Dr. Krishna Das Manandhar	manandhar@gmail.com
2	Botany	Kirtipur	4331322 4333515	M. Sc. Botany M. Sc. BEM Ph. D.	Prof. Dr. Ram Kailash Yadav	rkp.yadav@cbtu.edu.np
3	Chemistry	Kirtipur	4332034 4330537	M. Sc., Ph. D.	Prof. Dr. Ram Chandra Basnyat	basnyatram@gmail.com
4	Computer Science & IT	Kirtipur	4333010 4332619	M. Sc., Ph. D.	Mr. Nawaraj Paudel	nawarajpaudel@yahoo.com
5	Environmental Science	Kirtipur	4332147 4332711	M. Sc., Ph. D.	Prof. Dr. Rejina Maskey	rmaskey@cdes.edu.np
6	Food Technology	Dharan	0 2 5 - 526726	M. Tech. Ph. D.	Mrs. Geeta Bhattarai	geetabhattacharai4@gmail.com

SN	Central Department of	Location	Phone	Academic Program	Name of HOD/ Director	email of HOD/ Director
7	Geology	Kirtipur	4332449	M. Sc. Geology M.Sc. Eng.Geo Ph. D.	Prof.Dr. Lalu Prasad Paudel	lalupaudel67@yahoo.com
8	Hydrology & Meteorology	Kirtipur	4333887	M. Sc., Ph. D.	Dr.Deepak Aryal	deepak@cdhmtu.edu.np
9	Mathematics	Kirtipur	4331977	M. Sc. M Phil, Ph. D.	Prof.Dr. Kedar Upreti	uprety_kn@cdmathtu.edu.np
10	Microbiology	Kirtipur	4331869	M. Sc., Ph. D	Dr. Megharaj Banjara	banjaramr@gmail.com
11	Physics	Kirtipur	4331054	M. Sc., Ph. D.	Prof.Dr .Binil Aryal	aryalbinil@ gmail.com
12	Statistics	Kirtipur	4331710	M. Sc., Ph. D.	Prof.Dr.Shankar Prasad Khanal	drshankarcds@ gmail.com
13	Zoology	Kirtipur	4331896	M. Sc., Ph. D.	Prof.Dr. Tej Bahadur Thapa	tejthapa@gmail.com
14	School of Math Science	Balkhu		B. Math. Sc.	Prof.Dr. P. M. Bajracharya	pmbajaracharya13@ gmail.com

Brief Profile and Programs of Constituent Campuses associated to IoST

S.N	Name of the Campuses	Address	Telephone	B.Sc.	M.Sc.
1	Mechi Multiple Campus	Bhadrapur, Jhapa	23520044	General + (Env. Science, Tea Science, CSIT),	
2	Dhankuta Multiple Campus,	Dhankuta	26520297	General + (Env. Science)	
3	Central Campus of Technology	Dharan	25520228	General + (Microbiology, Nutrition & Dietetics, Geology) B. Tech. (Food)	Microbiology M. Tech. (Food)
4	Mahendra Morang Adarsha Multiple Campus	Biratnagar	21526791	General + (Microbiology, Meteorology, CSIT)	Physics, Chemistry
5	Post Graduate Campus	Biratnagar	21526327		Botany, Zoology, Math
6	Mahendra Bindeshwori Multiple Campus	Rajbiraj	31520092	General + (Microbiology)	
7	Surya Narayan Satya Na. Mo. Yadav Campus	Siraha	33520387	General + (Env. Science)	
8	Ramsorup Ramsagar Multiple Campus	Janakpur	41520174	General + (Microbiology, Env. Sc., CSIT)	Math
9	Thakur Ram Multiple Campus	Birgunj	51522187	General	
10	Birendra Multiple Campus	Bharatpur	56520253	General + (Microbiology, Geology, Meteorology, CSIT)	Physics, Chemistry
11	Prithivi Narayan Multiple Campus	Pokhara	61526837	General + (Microbiology, Geology, CSIT)	Physics, Math
12	Sidha Nath Science Campus	Mahendranagar	99521220	General + (Env. Sc, Microbiology, CSIT)	Physics, Math
13	Mahendra Multiple Campus	Nepalgunj	81520278	General + CSIT	
14	Butwal Multiple Campus	Butwal	71542834	General + CSIT	
15	Tribhuvan Multiple Campus	Palpa	75520090	General	

S.N	Name of the Campuses	Address	Telephone	B.Sc.	M.Sc.
16	Tri- Chandra Multiple Campus	Ghantaghar	4244047	General + (Env. Science, Geology, Microbiology, Meteorology)	Chemistry, Eng. Geology, Microbiology,
17	Amrit Science Campus	Lainchour	4411637	General + (Env. Science, Microbiology, CSIT)	Physics, Math, Botany, Chemistry
18	Patan Multiple Campus	Patan	5547710	General + (Env. Scienc, CSIT)	Physics
19	Bhaktapur Multiple Campus	Bhaktapur	6610200	General + CSIT	
20	Padma Kanya Multiple Campus	Bagbazar	4224149	General + (Env. Science, Microbiology, CSIT)	
21	Mahendra Multiple Campus	Dang	082560035	General	
22	Dhaulagari Campus	Baglung		General	
23	Bhairawaha Multiple Campus	Bhairawa		General + CSIT	
24	Gorkha Campus	Gorkha		General (program not running)	

- **General B.Sc. includes: Chemistry, Botany, Zoology, Statistics, Physics and Mathematics**

Recent Activities of Central Departments and Campuses

Recent Activities of Central Department of Biotechnology

- International Relations / Collaborations
 - Evaluation of Contraceptive Properties of Medicinal Plants *Dioscorea bulbifera* and *Artemisia vulgaris* by in vitro Sperm Function and in vitro Fertilization Assay Techniques, Collaborator: Korea International Cooperation Agency (KOICA)
 - Study of Dengue and Dengue like fever in Nepal, Collaborator: La Jolla Institute for Allergy and Immunology, California, USA
 - Anticancer activity of Ayurved Medicine "Cytotoxic and anticancer activities of Heerak Bhasma (Diamond particles) on different cell lines", Collaborator: Ayurveda Research Center, Government of Nepal
- CDBT-TU WINTER SCHOOL – 2018 on Applied Molecular Biology (Hands-on training) January 7 - 10, 2018
- Himalayan Cysticercosis Conference (HCC) 2018[Co-organizer], December 7-8, 2018
- A collaborative initiative to develop a proposal on study of overall quality of water from Nepalese, Bhutanese and Indian Himalayas and its health impact on dependent population. (ICIMOD) 2018
- MoU with State Key Laboratory of Genetic Resources And Evolution Kunming Institute of Zoology, Chinese Academy of Sciences, Kunming, China June 28, 2018
- Talk by international experts on Genomic mining and structure based engineering to establish industrially relevant biocatalyst: A success story of cytochrome P450 CYP260 -Dr. Yogen Khatry, Life Sciences Institute, University of Michigan, Ann Arbor, USA, November 14, 2018
- Talk by international experts on Microbiome and Health Benefits of Some Global Fermented Foods and Beverages, -Professor Dr. Jyoti Prakash Tamang FNAAS, FNABS Acting Vice Chancellor, Sikkim University, April 29, 2018
- Talk by international experts on Flow cytometry: an Immunological tool -Prof. Dr. Paul K Wallace, Rose Well Park Cancer Institute, University of Buffalo, NY, USA, April 2, 2018
- Talk by international experts on Introduction of Institute of Science Technology, Chulabhorn Graduate Institute (CGI) Thailand, -Dr. Mayuree Fuangthong, Professor, Department of Applied Bioscience, February 28, 2018
- Talk by international experts on Dengue an infectious Disease in the world and Nepal -Dr. Sujan Shrestha, Associate Professor La Jolla Institute for Allergy and Immunology, California, USA, March 19, 2018
- Talk by international Experts on Functional mechanism of Flow cytometry -Dr. William Telford, National Cancer Institute, NIH, USA, December 03, 2018

Recent Activities of Central Department of Botany

1. Geographic Information System (GIS) TRAINING May 6-8, 2018
2. Environmental Assessment training workshop, May 27-30, 2018.
3. INCEPTION WORKSHOP OF Biodiversity Information Fund for Asi (BIFA) PROJECT, July 6, 2018
4. Talk Program by Prof. Dr. Krishna K. Shrestha former Head of the department delivered a talk on the topic 'Flora of Nepal: 8 Explorations to Publication', and also introduced his book entitled "Handbook of Flowering Plants of Nepal" on April 3rd, 2018.
5. Talk Program by Dr. K. V. Sankaran, Former Director of Kerala Forest Research Institute, India delivered a lecture on 'Management options for invasive alien plants in Indian forests' on July 20, 2018.
6. Talk Program by Prof. Anil Shrestha of the Department of Plant Science, California State University, USA delivered a talk on 'Chemical warfare on weeds: Who is winning the battle?' on August 3, 2018.
7. Talk Program by Dr. Bandan Chakraborty from Wageningen University, The Netherlands, delivered a talk on 'Microtubule of dynamics in realistically shaped plant cells' on September 7, 2018.
8. Talk Program by Dr. Uttam Babu Shrestha, a Research Fellow at the University of Southern Queensland, Australia delivered a talk on "Global change at our doorstep: How climate, forests, species and cities are changing in Nepal?" on November 18, 2018.
9. Talk Program by Dr. M.C. Kharkwal, former Principal Scientist of ICAR, New Delhi and President of Indian Society of Genetics and Plant Breeding delivered a talk on "Origin of Agriculture and Global Status of GM crops" on November 18.
10. Prof. Dr. Mohan Siwakoti and Prof. Emiratus Dr. Pramod Kumar Jha joined the team of Prof. Dr. Tirth Raj Khaniya (vice chancellor, TU) on March 11-14, 2018 for visiting the Jawaharlal Nehru University, New Delhi to discuss the academic collaboration and identify the areas of cooperation. A meeting was held between the Vice-Chancellor of Tribhuvan University and Jawaharlal Nehru University. The Vice-Chancellor led team also visited the South Asian University, New Delhi and met the university authorities and Nepali students. Science, Faculty of Biosphere-Geosphere Science, Okayama University of Science, Japan served as a Visiting Research Scholar at CDBTU from May 1 to August 31, 2018.

Recent Activities of Central Department of Chemistry

1. Dr Santosh Aryal, Assistant professor, Kansas State University, USA. Title of talk: Rationale design of polymeric nanoparticle for diagnosis and therapy of cancer. Date/time: 7th June 2018/1-2 pm.
2. Dr. Masahiro Yamashita, Tohoku University, Japan. Title of Talk: Quantum Molecular Spintronics Based on Single-Molecule Magnets: Single-Molecule Memory, Spin Qubits, and Coherence at RT. Date/ time: March 12th 2018, 1-2 p

Recent Activities of Central Department of CSIT

1. Workshop: UGC supported two day's workshop "Current research trend in Machine Learning and Data Analytics" on 2075-03-12 and 13.
2. Teachers' orientation program: Teachers' orientation program to develop micro-syllabus, lab detail, and model question for B.Sc. Computer Science and IT second and fourth semester courses on 2075 – 09 – 09.
3. Guest Lecture: Two hours guest lecture by Dr. Ramhari Subedi (ECPI University, Virginia, USA) on "Cyber Security" on 2075 – 09 – 02.

Recent Activities of Central Department of Environmental Science

1. National Sharing Workshop on 'Chure Project Characterisation of Landslide Hazard and Design Mitigation Works of High Risk Landslides in Chure Area of Nepal' on January 4, 2018 at Lalitpur
2. National Workshop on DRR Policy and action plan sharing for National DRR Focal Points at Nepalgunj on Feb 14, 2018.
3. Fourth Graduate Conference on Environment and Sustainable Development. Collaborators: ISTE-Nepal and Resources Himalaya Foundation. Conference Theme:- Nature, Science and Society: Fostering Youth Leadership for Research and Development, April 3-5, 2018
4. Workshop on Sustainable Priorities was jointly organised with Avans University of Applied

- Sciences, the Netherlands at TU-CDES on 24 April 2018.
5. One-day workshop on "Sustainable Solid Waste Management in Nepal" collaborating with Kathmandu Institute of Applied Sciences (KIAS), at Tokha Municipality on July 27, 2018
 6. Poster Competition Event on the occasion of World Environment Week in collaboration with Ministry of Forest and Environment and STEM foundation Nepal, June 1st -2018.
 7. Seminar on 'Water Quality in the Himalaya' collaborating with Kathmandu Center for Research and Education (KCRE), 17th November, 2018.
 8. MoU between Chaoyang University of Technology, Taiwan and Tribhuvan University to strengthen the bilateral relation in academic and research, 23rd April 2018.
 9. MOU with the Department of Environment, Ministry of Forest and Environment, Nepal.
 10. Agreement with State Key Laboratory of Cryospheric Science Northwest Institute of Eco-Environment and resources, Chinese Academy of Sciences (SKLCS-NIEER-CAS) for collaborated work for five years in environmental research, Nov 17, 2018.
 11. Contract Agreement for Consultancy Service with Rural Women's Development and Unity Centre (RUWDUC), TROSA Project, for the development of Practical Training Manual and Organize events to share training manual with local government personnel, 14 December 2018.
 12. Guest Lecture on "Man-made and Chemical Related Accident Trends in the late 20th and early 21st Centuries" by Dr. Jao-Jia Horng, Distinguished Professor, National Yunlin University of Science and Technology (YunTech), Taiwan, April 24, 2018.
 13. Lecture on "Opportunities and pitfalls of international business between S.E. Asia and the Netherlands" by Mr. Dutch Consul from Netherland, April 24, 2018
 14. Interaction program with students and faculties by professors and faculties of Indian Institute of Technology (IIT) Mandi, Himachal Pradesh for to pursue post-graduate (M.Tech., M.S., M.Sc. PhD) studies, 6 May, 2018
 15. Guest lecture on "Urban Flood Resilience Through Technology Application" by Dr. Esteban Sanchez-Canepa, June 15, 2018.
 16. Guest Lecture on on 'Health Impacts of Air Pollution: How strong is the evidence?' by Dr. Om P. Kurmi from McMaster University, Hamilton, Canada, July 20, 2018.

Recent Activities of Central Department of Geology

1. International collaboration:
 - Southwest Jiaotong University, Tibet-Nepal Corridor Rock Avalnche study. One PhD student from China and one from Nepal will work in the project.
 - Dr. KN Paudyal visited Senkenberg Research Institute from January to February 2018 and 2019 under Alaxzeder von Humboldt Foundation, Research Group Linkage Programme.
 - Research collaboration with ITP-CAS, Beijing for Late Quaternary Climate Study in Lake Sediments from Rara.
2. International collaboration and Exchange programme:
 - PhD students of CDG participated in UNESCO chair programme at Shimane University, Japan.
 - MSc Students carried out internship at Kagawa University, Japan in September 2018 under Sakura JST program,
 - MSc students visited Shimane University, Japan, under Sakura JST program.
3. MOU with Phalewas Municipality to carry out various researches in the municipality.
4. Guest Lecture: Prof. Dr Harel Thomas, Sagar University, India took 1 week special lecture for MSc students on geochemistry and petrology on July 2018.
5. Guest Lecture: Prof. Dr. Jorn Kruhl, from Munich Technical University, Germany gave 1 week guest lecture to the MSc student on April, 2018.
6. Guest Lecture: Prof Marry Hubbard from *Minnesota* Unviersity, USA gave special lecture on Structural Geology on December 2018

Recent Activities of Central Department of Hydrology and Meteorology

1. Workshop on HIMALICE (Assessment of High Mountain cryospheric processes for a better understanding of water resource and glaciers hazards in Nepal under a changing Climate), 24-25 October 2017
2. 8 day training program on "Application of FORTRAN programming language and GRADS (map visualization) in study of climate change analysis"
3. The half day workshop on "Discharge measurement techniques and practices in the high-altitude catchment of Nepal Himalayas", 02 December, 2018
4. Advance training on Hydrological and Hydro-dynamic modeling, satellite rainfall estimation/validation, weather forecast verification and crop modeling on October 31st to 4th November, 2018 in CDHM, TU
5. List of MoU with different National and international Institute
 - Institute of Research for Development, IRD, France (Objective: Understanding high mountain cryospheric processes and glaciers hazards)
 - Department of Hydrology Meteorology (DHM), Government of Nepal (Objective: Establishment of radiosonde observation station)
 - Institute of Tibetan Plateau Research, Chinese Academy of Science, Beijing (Objective: Collaborative research on Hydro-Meteorology of Himalaya/Tibetan Plateau regions)
 - The International Center for Integrated Mountain Development (ICIMOD) (Objective: Monitoring and assessment of changes in Glaciers, Snow and Glacio-hydrology in the Hindu Kush – Himalayas)
 - Small Earth Nepal (SEN) (Objective: Joint scientific research in the field of hydrology, meteorology and glaciology)
 - United Nations World Food Program (WFP) (Objective: Improvement of the quality of weather and flood forecasts, including forecasts from numerical weather, climate and hydrological models and crop modelling)
 - Kathmandu Institute of Applied Sciences (KIAS) (Objective: Drought monitoring, research outreach and knowledge exchange)
 - Department of Environment, Government of Nepal (Objective: Establishment of air pollution monitoring station at CDHM premises)
 - Department of Hydrology Meteorology (DHM), Government of Nepal and The National Geographic Society (objective: establish meteorological stations in the various parts of Khumbu region)

Recent Activities of Central Department of Mathematics

1. CIMPA on Dynamical Systems (October 25, 2018 to November 06, 2018).
2. International Conference on Mathematical Optimization, Silkroad Mathematical Center, China.
3. Second International Conference on Advances in Computational Mathematics (December 23-24, 2018, with South Asian University (SAU))
4. One day Seminar on Applications of Mathematics, September 20, 2018
5. A two day Workshop for University teachers, January 24-25, 2018
6. Workshop on Linear, integer and multicriteria Optimizations, March, 2018
7. Workshop on Graph Theory and Optimization with Applications in industry and Society in collaboration with DAAD, Germany, March 2018
8. Workshop on Convex Optimization (Humboldt Foundation Research group Linkage Program), 2018.
9. Talk Programs by:
 - Dr. Sudarshan Tiwari University of Kaiserlautern, Germany on Interacting Particle Systems: Modeling and Simulations, 2018
 - Prof. Mahendra Panthee, State University of Campinas Campinas, S~ao Paulo, Brazil on Non Linear Dispersive Equations- A survey, 2018
 - Dr. Bishnu Lamichhane, University of New Castle, Australia on Introduction to Finite Element Method, 2018

- Prof. Maceij Dunajski, Clare College and Department of Applied Mathematics and Theoretical Physics. University of Cambridge, 2018.
- Dr. Rodney George Halburt, University College London, Department of Mathematics on Special Functions and Nevanlinna's Theory, June 25-29, 2018
- Prof. Michel Waldschmidt, University of Pierre and Marie Curie, France on Diophantine Number Theory, 2018
- Prof. Roger Wiegand, University of Nebraska, USA on Semi group of Modules, Oct. 8, 2018.
- Prof. Sylvia Wiegand, University of Nebraska, USA on revisiting nearly Noetherian domains inside power series rings, Oct. 8, 2018.
- Prof. Bhadra Man Tuladhar, Kathmandu University on Summation of Divergent Series, 2018.
- Prof. Tatsuaki Okamoto, Head Nippon Telegraph and Telephone Corporation, Tokyo,

Japan on How to use Elliptic Curves in Practice, 2018

- Prof. Ichiro Shimada, Hiroshima University Japan on Topology and Cryptography, 2018

10. Future Plan

- New classroom plans (construction of Annex building)
- Post doctorate program
- Further research collaborations with different Institution and Universities
- Addition of new courses for Masters and M.Phil
- Internal Library for students and teachers
- Publication of Research Articles
- Summer School in Mathematical Biology (June 17-26, 2019)
- International Conference on Applications of Mathematics (June 28-30, 2019)

Recent Activities of Central Department of Microbiology

1. International/National Appointments Partner Institution of Asia Pacific Malaria Elimination Network (APMEN), 6 September 2018
2. Member of Multi-sectoral Antimicrobial Resistance (AMR) Surveillance Committee of National Public Health Laboratory, Department of Health Services, 27 December 2018.
3. Member of Malaria Technical Working Group, Epidemiology and Disease Control Division, Department of Health Services, 13 August 2018.
4. Member of Kala-azar Technical Working Group, Epidemiology and Disease Control Division, Department of Health Services, September 2018.
5. Orientation workshop on Bachelor of Science Microbiology Third Year Course Curriculum to teachers of constituent and affiliated campuses of Tribhuvan University, 27 December 2018. Forty three teachers from 19 different colleges participated in the workshop.
6. National/International Memorandum of Understanding (MoU)
 - National Tuberculosis Centre, Bhaktapur, 3 June 2018
 - KIST Medical College, Lalitpur, 18 April 2018
 - Kathmandu Model Hospital, Bagbazar, 20 February 2018

- Menzies School of Health Research, Darwin, Australia, 16 May 2018

7. Presentations from International People

- Prof. Dr. Prakash Thorat, Principal, Shivaji College, Barshi, Maharashtra, India presented on "Bioremediation and phyto-remediation"; Prof. Dr. R.D. Joshi, Head, Dept of Microbiology, Yogeshwari Mahavidyalaya Ambejogai, Maharashtra, India presented on "Biotechnology: Career and industrial development in Asia" and Prof. Dr. A.M. Deshmukh, Former Head, Dept. of Microbiology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, India President, Microbiologist Society presented on "Promote and aware regarding virtual lecture in biotechnology" on July 26, 2018.
- Dr. Bikash Shakya, Postdoctoral Research Fellow, Department of Paediatrics, School of Medicine, Stanford University, USA presented on "Investigating the functions of erythrocyte CD55 in Plasmodium falciparum invasion using CRISPR Cas9" on May 27, 2018.
- Assoc. Prof. Dr. Rajashree B. Patwardhan, Department of Microbiology, Haribhai V. Desai College, Pune University, Pune India presented on "Immune responses to infectious diseases" on May 10, 2018.

Recent Activities of Central Department of Physics

1. A program In the Memory of Stefan Hawking: “Confident, Successful and Clean CDP” (5 April, 2018)
2. Southampton, (UK) – IUCAA (Inter University Centre for Astronomy & Astrophysics, India) training for Astronomical Research and Education (SITARE) Workshop, Nepal (13-15 June, 2018)
3. CDP celebrates ‘Astrofest Nepal 2018’ (22 April, 2018)
4. Talk Program at CDP (2018)
 - Dr. D. P. Rai, Physical Sciences Research Center, Pachhunga University College, Aizawl, India delivered a talk entitled 'Theoretical Investigation of New Class of Thermoelectric Materials among the Family of half-Heusler compounds' on 26 Dec 2018.
 - Dr. Michael S. Kirk, Research Scientist, Heliophysics Science Division, Goddard Space Flight Center, NASA, USA, delivered a talk entitled 'Measurements of Polar Coronal Holes' on 14 Nov 2018.
 - Dr. Michael S. Kirk, Research Scientist, Heliophysics Science Division, Goddard Space Flight Center, NASA, USA, delivered a series of three talks during 15-18 November, 2018. In the talks, Dr. Kirk described the theory regarding few issues of Solar Physics and about NASA's freely available database and software. CDP hold a discussion with Dr. Kirk and decided to organize 2 weeks workshop in the next year.
 - Dr. Krishna Neupane, Dept of Physics, University of Alberta, Canada delivered a talk entitled 'Direct observation and characterization of transition paths during the folding of Biomolecules' on 25 October 2018.
 - Dr. Fernando Quevedo, Director of International Centre for Theoretical Physics (ICTP) visited our department on 14 October, delivered a speech on 'Importance of fundamental science for the development'.
 - Dr. Amod Pokhrel, Lecturer, Department of Environmental Health Sciences, University of California, Berkeley delivered a talk entitled 'Maximizing the environment and health benefits of clean air in urban Nepal' on 16 August 2018.
 - Dr. Rajan Chhetri, Postdoctoral Researcher, International Centre for Radio Astronomy Research (ICRAR), Curtin University, Australia & also at ARC Centre of Excellence for All-sky Astrophysics (CAASTRO) delivered a talk on 'Studying low frequency sub-arcsecond radio source populations with the Murchison Widefield Array' on 21 March 2018.
 - Dr. Madhav Prasad Ghimire, Post Doc Scholar, IFW Dresden, Germany delivered a talk on 'Chemical gating of a weak topological insulator & cleavage energies of layered materials' on 29 April 2018.
 - Prof. Dr. Kazuo SHIOKAWA, Institute for Space-Earth Environmental Research (ISEE), Nagoya University, Japan, delivered a talk entitled 'Introduction to the Solar-Terrestrial Physics' on 3 May 2018.
 - Dr. Bandan Chakraborty of Plant Developmental Biology, Wageningen University, The Netherlands, delivered a talk entitled 'Microtubule-based mechanism for cell division orientation in plant embryogenesis' on 4 September 2018.
 - Dr. Chetan Dhital, Post Doctorate Fellow, Louisiana State University, USA delivered a talk entitled 'Controlling Topological spin Textures in Metallic Magnets' on 6 July 2018.
 - Dr. Amba Datt Pant, Post Doc Scholar, College of Science, Ibaraki University, Japan & Muon Science Laboratory, Institute of Materials Structure Science, High Energy Accelerator Research Organization (KEK), Ibaraki, Japan, delivered a talk on 'Ultra slow Muon and its Applications' on 7 May 2018.
 - Dr. Nirmal J. Ghimire, Director's Postdoctoral Fellow, Materials Science Division, Argonne National Laboratory, USA delivered a talk entitled 'A Materials-Driven Approach to Condensed Matter Physics' on 10 July 2018.
 - Dr. Iswar Koirala, Associate Professor, CDP, TU delivered a talk on 'ORDERING AND SEGREGATION IN BINARY LIQUID ALLOYS' on 10 May 2018.
 - Prajwal Niraula, Ph D Candidate, MIT, USA delivered a talk on 'Planet Hunting and Characterization with K2' on 13 July 2018.
 - Ramesh Mainali, Ph.D. Candidate, Steward Observatory, University of Arizona, USA, delivered a talk entitled 'Spectroscopy of galaxies in the first billion years of cosmic time' on 24 May 2018.
 - Prof. Dr. Jaichan Lee, School of Advanced Materials Science and Engineering, Sungkyunkwan University, Suwon, Korea, delivered a talk entitled 'Defects in Functional Oxides' on 25 April 2018.
 - Dr. Hem Raj Sharma, The University of Liverpool, the United Kingdom delivered a talk entitled 'Quasicrystals with Crystallographic Rotational Symmetry' on 30 March 2018.

Recent Activities of Central Department of Statistics

1. Google Scholar Citations based on the research works performed by working permanent faculties of CDS as of now: 900+
2. Talks by guest professors (2018):
 - 'Thinking statistically' by Dr. T.J. Roy, retired professor of Indian Statistical Institute (ISI) Kolkata, India, 14th September, 2018
 - 'Development statistics' by Dr. Sugata Sen Roy, Professor and Head, Kolkata University, India, 22nd November, 2018
 - 'A Study of the survival functions of two alternatively occurring recurrent events' by Dr. Dr. Moumita chatterjee, Asst. Professor of Statistics, Department of Statistics, Aliah University, Kolkata, India, 22nd November, 2018

Recent Activities of Central Department of Zoology

1. Visit and Talk Program
 - Prof. Dr. K. R. S. Sambasiva Rao, Vice Chancellor of Mizoram University, India visited the Central Department of Zoology, IOST, TU on November 01, 2018; and had discussions with CDZ team about potential collaborations.
 - Dr. Dionisios Youlatos, Department of Zoology, School of Biology, Aristotle University of Thessaloniki, Greece delivered a guest lecture on "Locomotory and Positional Behavior of Small Mammals" at Central Department of Zoology, Tribhuvan University on 08, August 2018.
 - Dr. Dusan DušanJelić, Croatian Institute for Biodiversity, Croatia delivered a guest lecture on "Ecological research of Amphibian and Reptiles in Croatia and Nepal" at the Central Department of Zoology, TU on November 26.
 - Professor Dr. Zue-Er Chen, Dean and a team of faculties and researchers from College of Environmental Studies, National Dong Hwa University, Taiwan visited the Central Department of Zoology, IOST, TU on December 13, 2018; and had discussions with CDZ team about potential collaborations.
2. A day long Joint Interaction program was organized by Central Department of Zoology, TU and College of Environmental Studies, National Dong Hwa University, Taiwan on 17th December, 2018. Many researchers have presented their research on the diverse issues on the interaction program.

Recent Activities of School of Mathematical Science

1. Faculty development program on Risk Management, 2075/6/1-2075-/6/6

Recent Activities of Natural History Museum

1. Youth for Smart Solution: A Conference on Environmental Problems and Role of Education in its Solutions, Kathmandu. November 29-30, 2018.
2. MoU with National and International Organizations
 - National Museum of Natural Science, Taiwan, 9 April 2018
 - Saint Petersburg Association of Scientists and Scholars, St. Petersburg, Russia on 2 September 2018
 - Zoological Institute of Russian Academy of Sciences, St. Petersburg, Russia on 2 September 2018
 - Institute for Social and Environmental Research Nepal, Chitwan, 3 January 2018.
 - Janasewa Secondary School, Panga, 23 February 2018
 - Ganesh English Secondary School, Tokha, 14 May 2018
 - Shubhakamana Academy, Taudaha, 3 September 2018
 - Green Village Education Foundation, Kirtipur, 6 December 2018
 - Budhanilkantha School, Budhanilkantha, 6 December 2018
 - Bhuwaneshwari Secondary School, Suryabinayak, 12 December 2018
 - The Excelsior School, Swayambhu Kathmandu on 19 December 2018
3. Talk programs by International speakers
 - "Insect biodiversity and Community Structure-in the Family Level" on 2 Feb 2018 organized by Natural History Museum, NCHU, NPUST at Natural History Museum, Swayambhu, Kathmandu, Nepal. Resource persons: Prof. JT Yang, NCHU, Taiwan and Dr. Lekhnath Kafle, NPUST, Taiwan
 - "Integrated protection of movable cultural heritages from disasters" by Kirk Cordell, Executive Director, National Park Service's Center for Preservation Technology and Training, USA. 2075 Asar 12 (2018 June 26), jointly organized by ICOM Nepal, NHM and Embassy of US at NHM, Swayambhu, Kathmandu.

Publications of the faculties of IoST in the Year 2018

Biotechnology

Subject related International Indexed Journal publications

- Mishra S. K., Napit R., Bastola A., Manandhar K. D., (2018). Assessment of High-Risk Group For Immune Reconstitution Inflammatory Syndrome (Iris) Development Among People Living With Human Immunodeficiency Virus/ Acquired Immunodeficiency Syndrome (Hiv/Aids) In Nepal. *European journal of pharmaceutical and medical researchejpmr*, 5(7),489-498.
- Yadav P., Korpole S., Prasad G.S., Sahni G., Maharjan J., Sreerama L.,(2018).Morphological, enzymatic screening, and phylogenetic analysis of thermophilic bacilli isolated from five hot springs of Myagdi, Nepal. *Journal of Applied Biology & Biotechnology Vol 6 (3)*, 1-8

Subject related International DOI Journal publications

- Shrestha M., Pandey B. D., Maharjan J., Tiwari P. N., Manandhar K. D., Pun S. B., Dumre S., Pandey K. (2018). A Case of Visceral Leishmaniasis from the Non-endemic Himalayan region of Nepal. *Parasitology Research*, 117(7):2323-2326. doi: 10.1007/s00436-018-5887-6. Epub 2018 May 2.
- Sah S. K., González J. V., Shrestha S., Adhikari A., Manandhar K. D., Yadav S. B., Stein David A., Gupta B. P. & Picconi M, A. (2018). Human papillomavirus genotype distribution in cervical cancer biopsies from Nepalese women. *Infectious Agents and Cancer*.13:4 DOI 10.1186/s13027-018-0176-7.
- Gupta B.P., Tuladhar R., Kurmi R., Manandhar K.D. (2018). Dengue periodic outbreaks and epidemiological trends in Nepal. *Annals of Clinical Microbiology and Antimicrobials*.17:6. doi:10.1186/s12941-018- 0258
- Gupta B.P., Lamsal M., Chaulagain S., Rauniyar R., Malla R., Shrestha S., Kurmi R., Manandhar K. D. (2018). Emergence of dengue in Nepal. *VirusDis*.<https://doi.org/10.1007/s13337-018-0439-3>

Book publications

- Kharel, G P (2075).*Swasthakhana, Dirghajiwan* (in Nepali), Swadesh Publication Pvt. Ltd, Bagbazar Kathmandu.

Botany

- Aryal, H.P. (2018). Disease and post harvest management practices of mushrooms, Nepal. *Ban Sanchar*.2(3), 9-13.
- Chongbang, T. B., . Keller C, Nobis,M.,Scheidegger,C. and Baniya,C. B.. (2018). From natural forest to cultivated land: Lichen species diversity along land-use gradients in Kanchenjunga, Eastern Nepal.*Eco.Mont– Journal on Protected Mountain Areas Research and Management*, 10 (1), 46-60.
- Das A.K., Oli B.N., Smith-Hall C., Rayamajhi S., Ghimire S. and Dhakal S.P. (2018) (eds.). Wild Harvests, Governance, and Livelihoods in Asia: Proceedings from the International Conference held in Kathmandu 30 November to 2 December 2017. Transiting to Green Growth Natural Resources in Nepal (TGGN), Kathmandu, Nepal.
- Devkota, A. and Sahu, A. (2018). Assessment of antifungal activities of some invasive alien species of Aster family. *CIBTech Journal of Microbiology*, 7(1), 15-24.
- Everard, M., Gupta,N.,Chapagain,P.S.,Shrestha,B.B.,Preston,G. and Tiwari,P. (2018). Can control of invasive vegetation improve water and rural livelihood security in Nepal? *Ecosystem Services*, 32, 125-133.
- Jha, S.K. (2018). Major diseases of mango in Nepal and their management. *Hamro Kalpabrichha*, 29(325), 8-13.
- Jha, S.K. and Thapa., L.B.(2018). Microfungi isolated from water hyacinth (Eichhornia crassipes) compost. *Bio Bulletin*, 4(1), 43-47.
- Kafle G., Bhattarai-Sharma, I.,Siwakoti,M. and Shrestha,A.K. (2018). Demand, end-uses, and conservation of alpine medicinal plant Neopicrohiza scrophulariiflora (Pennell) D. Y. Hong in Central Himalaya. *Hindawi Evidence-Based Complementary and Alternative Medicine*, Vol. 2018, Article ID 6024263, <https://doi.org/10.1155/2018/6024263>.
- Kafle, G., Bhattarai,I.,Shrestha,A.K. and Siwakoti,M. (2018). Consumers Caring Health with End Products (Ayurvedic Medicines) Containing Neopicrohiza scrophulariiflora in Nepal. *International Journal of Ayurvedic Medicine*, 9(2), 123-132.
- Kafle. G., Bhattarai (Sharma), I., Siwakoti,M., and Shrestha,A.K. (2018). In the search of end products of commercially important Medicinal Plants: A case study of yarsagumba (Ophiocordyceps sinensis) and bish (Aconitum spicatum). *Journal of Agriculture and Forestry University*, 2, 231-239. Chitwan.
- Luitel, D.R., Siwakoti,M. and Jha, P.K. (2018). Relationsip between climatic variables andFinger millet yieldin Syangja, Central Nepal. *Journal of Forest and Livelihood*, 18(1), 1-13.
- Mishra, N.B., Mainali, K.P.,Shrestha,Radenz,B.B. J. and Karki,D. (2018). Species-level vegetation mapping in a Himalayan treeline ecotone using unmanned aerial system (UAS) imagery. *Int. J. Geo-Inf.*, 7, 445 doi:10.3390/ijgi7110445.
- Moonlight, P.W. W. H. Ardi, L. A. Padilla, S. Rajbhandary, et.al. (2018). Dividing and conquering the fastest growing genus: Towards a natural sectional classification of the megadiverse genus Begonia (Begoniaceae). *Taxon*, 67 (2), 267–323.
- Pant, B., Paudel M.R., Chand, M.B., Pradhan,S., Malla,B.B. and Raskoti,B.B. (2018). Orchid diversity in two community forests of Makawanpur district, central Nepal. *Journal of Threatened Taxa*, 10, 12523-12530.
- Pant, K.K. (2018). Neglected vegetables of Nepal: Status and need for further research and utilization. *Indian journal of plant sciences*, 7(1), 18-21.
- Pant, K.K. and Joshi,S.D. (2018). In vitro bud induction from the nodes of Asparagus racemosus Willd. and their germination behaviors. *International Journal of Technical research and Science*. 3(II), 47-50.

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- Paudel, M. R., Chand, M. B., Pant, B. and Pant, B. (2018). Antioxidant and cytotoxic activities of *Dendrobium moniliforme* extracts and the detection of related compounds by GC-MS. *BMC Complement. & Altern. Med.* 18 (1), 134... 13
- Paudel, M. R., Rajbanshi, N., Saha, A., Acharya, S. Pant, B. and Pant, B.. 2018. Antibacterial activity of selected *Dendrobium* species against clinically isolated multiple drug resistant bacteria. *African Journal of Microbiology Research*. 12(18), 426-432.
- Phuyal, N., Jha, P. K., Raturi, P. P., Rajbhandary, S. (2018). *Zanthoxylum armatum* DC: Current knowledge, gaps and opportunities in Nepal. *Journal of Ethnopharmacology*, <https://doi.org/10.1016/j.jep.2018.08.010>
- Pokharel, K. K., Basnet, K. B., Majupuria, T. C. and Baniya, C. B. (2018). Correlations between fish assemblage structure and environment variables of the Seti Gandaki River Basin, Nepal. *Journal of Freshwater ecology*, 33(1), 31-43, DOI:10.1080/02705060.2017.1399170.
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Chemistry

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**List of Affiliated Campuses of IoST, Tribhuvan University
(Science Programs launched)**

S.N.	Name of Campus	Location	Bachelor Program	Master program
1.	St. Xaviers College	Maitighar	B.Sc. CSIT, Microbiology	M.Sc.Physics, Microbiology
2.	Sainik Awashiya Mahavidalaya	Bhaktapur	B.Sc. general	
3.	Mt.Annapurna Campus	Pokhara	B.Sc.CSIT, MB	
4.	Khwopa College	Bhaktapur	General B.Sc. (Inc. Env. Sc),	M.Sc.Env.Sc.
5.	National Multiple College	Bakhundole	General B.Sc.	
6.	Damak Multiple Campus	Jhapa	B.Sc. Env.Sc., Physics	
7.	Hari Khetan Multipe Campus	Birgunj	B.Sc.MB, Env.Sc.	
8.	Makwanpur Multiple Campus	Hetauda	General B.Sc.	
9.	National College (NIST)	Lainchour	B.Sc.MB, BTech (Food)	M.Sc.MB , Biotechnology
10.	Kathmandu College of Science & Technology	Kalimati	B.Sc.MB	M.Sc. M
11.	College of Applied Sciences	Anamnagar	B.Sc.Env. Sc.	M.Sc. Env.Sc.
12.	Lalitpur Valley College	Jawalakhel	B.Sc. MB, B.Tech (Food)	
13.	Bharawi Science College	Itahari	B.Sc. General	
14.	Model Multiple College	Janakpur	B.Sc General (inc MB)	
15.	Kantipur College of Medical Sciences	Sitapaila	B.Sc.MB	M.Sc.MB
16.	Aishwarya multiple campus	Dhangadhi	B.Sc. General	
17.	Janpriya Multiple College	Pokhara	B.Sc.MB, Env.Sc.	
18.	Goldengate International College	Purano Baneshwor	B.Sc.MB, Physics, B.Tech (Food).	M.Sc.Physics,MB, Env.Sc
19.	Birendra Memorial College	Dharan	B.Sc.MB, CSIT	
20.	Balkumari College	Narayngadh	B.Sc.MB, Env.Sc.	
21.	National College of Food Technology	Lainchour	B.Tech. (Food)	
22.	New Summit College	Purano Baneshwor	B.Sc.CSIT	
23.	Kathford International College of Engineering and Management	Lalitpur	B.Sc.CSIT	
24.	Padmashree International College	Tinkune	B.Tech. (Food)	
25.	Xavier International College	Kalopul	B.Sc.MB, Env.Sc.	
26.	Sunsari Technical College	Dharan	B.Sc.MB, B.Tech.(Food)	M.Sc.MB, Biotech.
27.	Prime College	Nayabazar	B.Sc.CSIT	
28.	Kamala Science Campus	Sindhuli	B.Sc. General	
29.	Jahari Campus	Rukum	B.Sc. General	
30.	National College of Computer Studies	Kantipath	B.Sc.CSIT	
31.	Nagarjun College of IT	Pulchowk	B.Sc.CSIT	
32.	Shegun International College	Maharajgunj	B.Sc.MB	M.Sc. MB
33.	St. Lawrence College	Chabhil	B.Sc.CSIT	
34.	Sapta Gandki Multiple Campus	Bharatpur	B.Sc. Env.Sc.	
35.	Shreeyantra College	Damak, Jhapa	B.Sc.CSIT	
36.	Orchid International College	Sinamangal	B.Sc.CSIT	
37.	Henryford International College	Kalanki	B.Sc.CSIT	
38.	Rajarshijanank Campus	Janakpur	B.Sc.General	
39.	Madan Bhandari Memorial College	Anamnagar	B.Sc.CSIT	
40.	Aberdin Eng. College	Jawalakhal	B.Sc.CSIT	
41.	Kathmandu Bernhardt College	Bafal	B.Sc.CSIT	
42.	Academia Int. College	Gwarko	B.Sc.CSIT	
43.	Asain School of Management & Technology	Samakhushi	B.Sc.CSIT	
44.	Himalaya College Of Eng.	Shankhamul	B.Sc.CSIT	
45.	Sagarmatha College Of Science & Technology	Sanepa	B.Sc.CSIT	
46.	College Of Applied Business	Gangahity, Chabahil	B.Sc.CSIT	
47.	Ambition College	Baneshwor	B.Sc.CSIT	

S.N.	Name of Campus	Location	Bachelor Program	Master program
48.	Texas International College	Chabahil	B.Sc.CSIT	
49.	Deerwalk Ins. Of Technology	Sifal	B.Sc.CSIT	
50.	Sukuna Multiple Campus	Morang	B.Sc.General	
51.	Kailali Multiple Campus	Dhangadi	B.Sc.General	
52.	New Horaijan Campus	Butawal	B.Sc. General.	
53.	Pokhara College Of Science & Technology	Pokhara	General B.Sc. (incMB) B. Tec. Food,	M.Sc. Microbiology
54.	Dharan Multiple Campus	Dharan	B.Tec. (Food)	
55.	Softech College	Lahan	B.Sc. General inc (MB)	
56.	J.S. Murarka Campus	Lahan	B.Sc.General	
57.	Gokuleshwor Multiple Campus	Darchula	B.Sc.General	
58.	Manilek Campus	Baitadi	B.Sc General.	
59.	Chautara Multiple Campus	Chautara	B.Sc.General	
60.	NIST College	Banepa	B.Sc.General, CSIT	
61.	National Infotec College	Birgung	B.Sc.CSIT	
62.	Niharika College	Biratnagar	B.Sc.CSIT	
63.	Birat Kchitize College	Biratnagar	B.Sc.CSIT	
64.	Birat Multiple College	Biratnagar	B.Sc. (MB), CSIT B.Tech. (Food)	
65.	AIMS College	Biratnagar	B.Sc.CSIT	
66.	Nilgiri College	Itahari	B.Tec. (Food)	
67.	Godawari College	Itahari	B.Sc.CSIT	
68.	Hetauda City College	Hetauda, Makawanpur	B.Sc.CSIT	
69.	Indreni College	Bharatpur	B.Sc.CSIT	
70.	Soch College Of I.T.	Pokhara	B.Sc.CSIT	
71.	Lumbini ICT College	Gaidakot, Nawalparasi	B.Sc.CSIT	
72.	Nagarik College	Gaidakot, Nawalparasi	B.Tech (Food)	
73.	Tinau Prabidhik College	Butawal	B.Sc.CSIT	
74.	Padmodaya Campus	Ghorahi, Dang	B.Sc.General	
75.	Gayndeep College	Tulsipur, Dang	B.Sc.General	
76.	Canvas International College	Basundhara, kathmandu	B.Sc.General	
77.	Trinity International College	Dillibazar, Kathmandu	B.Sc.CSIT	
78.	Samajik College	Lokanthali, Bhaktapur	B.Sc.CSIT	
79.	Swostik College	Thimi, Bhaktapur	B.Sc.CSIT	
80.	Samridhi College	Lokanthali, Bhaktapur	B.Sc.CSIT	
81.	Nepalgunj Campus	Nepalgunj	B.Sc.CSIT	
82.	Karnali Prabidhi Campus	Kalikot, Sipkhana, Karnali	B.Sc.General	
83.	Nepathya College	Butawal	B.Sc.CSIT	
84.	Ambikeshowri Information & Technical Campus	Ghorai, Dang	B.Sc.CSIT	
85.	D.A.V. College Of Management	Jawlakhel, Lalitpur	B.Sc.General	
86.	Bake Bageshori College	Nepalgunj	B.Sc.CSIT	
87.	Asian College Of Higher Studies	Kamaladi	B.Sc.CSIT	
88.	Himalaya Darahan College	Biratnagar	B.Sc.CSIT	
89.	Sahid Smirti Multiple College,	Chitawn	B.Sc.General	



Refresher workshop on Teaching and Research Methodology



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Tel: 977-1-4330844, 4332738, 4330120 (Exam)

Fax: 977-1-4331755, Email: deaniost7@gmail.com,

Website: www.tuiost.edu.np