

3.2.2 Provide Event Brochures and reports of (E-learning programme on Entrepreneurship & Communication Skills,

Report 1: Entrepreneurship & Communication Skills

1. Training programme on EDP was conducted by NIESBUD, Dehradun, in collaboration with Dolphin institute for faculty and students of B.Sc. Forestry 6th & 5th semester students during the year 2015 & 2016.

Training programme on Fifteen days e-Learning Entrepreneurship Development Programme, conducted by the National Institute for Entrepreneurship and Small Business Development (NIESBUD) from **01April 2015 to 22 April 2015** in Dolphin institute, Dehradun district of Uttrakhand.

Total student participated - 82
Faculty - 04
Chief Guest - Dr. (Ms.) Poonam Sinha, Director, NIESBUD, Dehradun
Resource Person - Shri B.S. Sajwan, Dr. Sanjay Bartwal, Chief Consultant
Programme Coordinator - Prof. Sas Biswas & Dr. A.K. Uniyal
Organising Team Members - Dr. Sandhya Goswami, Dr. Tahir Nazir, Dr. Mandeep Kaur,
Ms Hemlata Bhatt

Training on Entrepreneurial Awareness programme conducted by the National Institute for Entrepreneurship and Small Business Development (NIESBUD) in collaboration with Dolphin (PG) Institute of Bio-medical & Natural Sciences on **19th April 2016** at Dolphin institute, Dehradun district of Uttrakhand.

Total student participated - 105
Faculty - 07
Chief Guest - Director, Dolphin Institute, Dehradun
Resource Person - Shri B.S. Sajwan & Shri Prabhakar Bahuguna
Programme Coordinator - Prof. Sas Biswas & Dr. A.K. Uniyal
Organising Team Members - Dr. Sandhya Goswami, Dr. Tahir Nazir, Dr. Mandeep Kaur, Dr. Rashmi Chamoli, Ms Hemlata Bhatt


Principal
Dolphin (P.G.) Institute of
Bio-Medical & Natural Sciences,
Mansuwa, Gehra Dun

Detailed schedule of E- Learning Entrepreneurship Development Programme training of NIESBUD- Dehradun for April 2015:

- Ø Day-1(01/April/2015)- Inaugural session & speech by director NIESBUD Dr. (MS) Poonam Sinha, Dr. Sas Biswas, Dr. A.K. Uniyal
- Ø Day 2 (02/April/2015) to Day 10 (10/April/2015)- Training /lecture sessions were conducted for one hour each from 11:00 AM to 12:00PM and 2:30PM to 3:30PM daily on different aspects of EDP.
- Ø Day 11 (11/April/2015) to Day17 (17/April/2015)- Field / Industrial visit in and around Dehradun city/ district to learn about the know hows of establishing and managing an enterprise such as mushroom cultivation unit, timber/lumber saw mills, plywood industry units, Patanjali pharma, silk production unit etc.
- Ø Day 18(18/April/2015) To Day 20 (20/April/2015)- Lecture/training session after actual field/industry visit to understand the facts of learning and actual functioning/use of the gained knowledge.
- Ø Day 21 (21/April/2015) - Interactive session of the resource person/trainer Shri B.S. Sajwan with trainee students and all the present forestry faculties.
- Ø Day 22 (22/APRIL/2015) - Concluding discussion for E- learning entrepreneurship development programme by Dr. Sas Biswas, head, department of Forestry, Shri B.S. Sajwan, Dr. A.K. Uniyal (Senior faculty, Forestry), Dr. Sandhya Goswami (Senior faculty, Forestry) and other faculties of forestry department.
- Ø Valedictory session was conducted at the end with vote of thanks to NIESBUD, management of Dolphin institute, students (participants), administrative staff etc.

The major learning points through EDP training programmes of April 2015 and April 2016 were as:-

There were TWO faculty members of National Institute for Entrepreneurship and Small Business Development, namely Dr. Sanjay Bartwal, Chief Consultant to deliver on Entrepreneurship Development, Entrepreneurial Motivation and Communication and Mr Prabakar Bahuguna, Chief Consultant on top line and bottom line profitability by ensuring optimal utilization of resources and preparation of Project Reports and Government Schemes.

ü Entrepreneurship Development Programme (EDP) is a programme which helps in developing entrepreneurial abilities.

- ü The skills that are required to run a business successfully is developed among the students through this programme.
- ü Sometimes, students may have skills but it requires polishing and incubation. This programme is perfect for them.
- ü This programme consists of a structured training process to develop an individual as an entrepreneur. It helps the person to acquire skills and necessary capabilities to play the role of an entrepreneur effectively.
- ü EDP is an effort of converting a person to an entrepreneur by passing him through thoroughly structured training.
- ü An entrepreneur is required to respond appropriately to the market and he/she is also required to understand the business needs.
- ü The skills needed are varied and they need to be taken care in the best possible way.
- ü EDP is not just a training programme but it is a complete process to make the possible transformation of an individual into an entrepreneur.
- ü This programme also guides the individuals on how to start the business and effective ways to sustain it successfully.

Objectives and Importance

- Ø To upgrade skills and knowledge of participants on entrepreneurship.
- Ø To create awareness about Entrepreneurial opportunities.
- Ø Examine critically the policies, programme & incentives for development of Micro Enterprises.
- Ø To equip the personal with appropriate skill in identifying and selecting projects.
- Ø To acquaint the personnel with the basic steps in formulation of micro projects.
- Ø To familiarize the personnel with the appraisal aspects of Micro enterprises etc.
- Ø To familiarize them How ED Cells can be formulated in colleges / Universities..
- Ø To acquaint them about the Government schemes for promoting entrepreneurship in colleges / Institutes/ University/ NGO.
- Ø The objective of this programme is to motivate an individual to choose the entrepreneurship as a career and to prepare the person to exploit the market opportunities for own business successfully. These objectives can be set both in the short-term and long-term basis.

- Ø Entrepreneurship development programme is a programme meant to develop entrepreneurial abilities among the people. Through entrepreneurship development programme help to involves equipping a person with the required skills and knowledge needed for starting and running the enterprise.
- Ø Entrepreneurship is vital for an economy. The spirit of entrepreneurship can be generated within an economy by infusing the urge, motivation and providing training to the aspiring entrepreneurs or the people with the potential. Entrepreneurial development programme (EDP) is a way to achieve the aforesaid goal.
- Ø The entrepreneurs required a lot of information for setting up a business and in that context the contribution of these programme was essentially in the area of disseminating knowledge on financial, technical and managerial aspects. Entrepreneurship development programme fulfil all the above mentioned essential knowledge for setting up a business.
- Ø We learn after EDP that it must be able to help selected entrepreneurs to Develop and strengthen their entrepreneurial quality/motivation; advertisements: Analyse environment related to small industry and small business; Select project/product; Formulate projects; and Understand the process and procedure of setting up of small enterprise.

Short-term objectives:

- ü These objectives can be achieved immediately. In the short-term, the individuals are trained to be an entrepreneur and made competent enough to scan the existing market situation and environment. The person, who would be the future entrepreneur, should first set the goal as an entrepreneur. The information related to the existing rules and regulations is essential at this stage.
- ü Entrepreneurship Development Programme (EDP) helps programme which helps in developing entrepreneurial abilities. The skills that are required to run a business successfully is developed among the students through this programme.
- ü The course contents of such Entrepreneurship Development Programmes is to provide useful information on product/process design, manufacturing practices involved, testing and quality control, selection and usage of appropriate machinery and equipments, project profile preparation, marketing avenues/techniques, product/service pricing, export opportunities, infrastructural facilities available, financial institutions, cash flow etc.

The major objectives were :

1. Evolve & Build-up the entrepreneurial quality(motivation to achieve)
2. Analyse environmental set up related to self employment (small business & industry)
3. Imparting Product Selection information/awareness

4. Proposal formulation for the Product.
5. Providing all necessary know-how for small enterprise set up.
6. Know th sources of help & support available for starting a small scale industry.
7. Acquire the necessary administrative skills for running small scale industry.
8. Value the needed entrepreneurial discipline.
9. Let the entrepreneur himself/herself decide the objectives for his/her ventures and aspire for their realization.
10. Prepare to tackle any uncertainty in running enterprises.
11. Enhancing decision making ability.
12. Enable to communicate clearly & effective.
13. Develop a broad vision about both present & future ventures.
14. Make him/her endorse to the industrial democracy.
15. Develop passion for integrity and honesty.
16. Make him/her learn compliance with the law.

The major outputs of **Training Entrepreneurship Development Programmes** were as follows:

- ü Develop entrepreneur potential under forestry sector among students.
- ü Aware students about different small scale startup ideas in the field of forestry.
- ü Encourage students to promote and develop the locally available resources.
- ü Change the student perception towards development of own entrepreneur.
- ü Better understanding about importance of entrepreneurship among students.


Principal
Dolphin (P.G.) Institute of
Bio-Medical & Natural Sciences,
Manduwala, Gehra Dun

Wednesday, April 20, 2016

The Tribune

VOICE OF THE PEOPLE

Need to create awareness on entrepreneurship



Dr Poonam Singh being felicitated by Dr SASA Biswas, HOD-Forestry at an Entrepreneurial Awareness Programme at the Dolphin PG Institute of Biomedical and Natural Sciences in Dehradun.

Tribune News Service

Dehradun, April 19

Sanjayant
Principal
Dolphin (P.G.) Institute of
Bio-Medical & Natural Sciences,
Manikwala, Dehra Dun

An Entrepreneurial Awareness Programme (EAP) was organised by the Department of Forestry at the Dolphin PG Institute of Biomedical and Natural Sciences here today.

Dr Poonam Sinha, Regional Head, NIESBUD, laid emphasis on creating awareness about development of entrepreneurship and enterprises. She appreciated the institute for taking an

initiative to develop course material on different aspects of entrepreneurship through field and institutional exposure.

Dr BS Sajwan, Chief Consultant of NIESBUD, interacted with the participants through a presentation on entrepreneurial motivation, communication and top and bottom-line profitability through optimal utilisation of resources.

Arvind Gupta, Chairman, Dolphin Institute, mentioned the need for forest and forestry-oriented endeavours for developing newer enterprises keeping in view the sustainable aspect of forests.

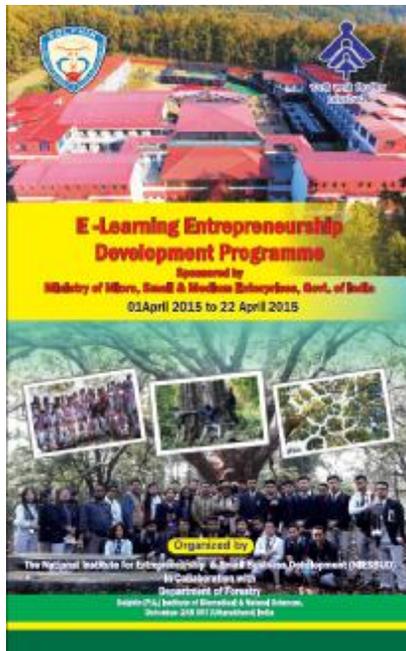
Dr Shailja Pant, principal of the institute, stressed the importance of seeking self employment and the involvement of community also.

Dr Arun Kumar, director of Dolphin Institute, talked about the need of such orientation programmes for students. Dr Sandhya Goswami, Dr Anil Uniyal, and students in large numbers attended the seminar.

The event was held in collaboration with National Institute for Entrepreneurship and Small Business Development (NIESBUD), Dehradun, under the Ministry of Skill Development and Entrepreneurship, Government of India.



Shailja Pant
Principal
Dolphin (P.G.) Institute of
Bio-Medical & Natural Sciences,
Mandawate, Gahra Dun



E-Learning Entrepreneurship Development Programme
 Sponsored by
Ministry of Micro, Small & Medium Enterprises, Govt. of India
 01 April 2015 to 22 April 2015

Organized by
 The National Institute for Entrepreneurship & Small Business Development (NIESSELD)
 (Delhi-based unit)
 Department of Forestry
 Jagdish (P.G.) Institute of Biomedical & Natural Sciences,
 Manduwala, Dehra Dun

Invitation
 Dolphin Institute of Biomedical and Natural Sciences, Dehradun, Uttarakhand, cordially invites you to participate in E-Learning Entrepreneurship Development Programme to be organized from 01 April 2015 to 22 April 2015.

Targeted Participants (200)
 A. Students of B.Sc. Forestry
Total students participated = 82
Faculty = 88
Chief Guest = Dr. (Dr.) Purnima Mishra, Director, NIESSELD, Dehradun
Resource Person = Shri K.S. Sajwan

About the Institute
 The Dolphin (P.G.) Institute is surrounded by green and lush green forest in the outskirts of Dehradun. The Institute is affiliated to B.B.H. Central University, Nainital, Uttarakhand and is accredited by UGC. Institute is recognized by the State Govt. of Uttarakhand approved by Indian Association of Physiotherapists (IAP) Member, and National Council of Teachers Education (NCTE), Jaipur. Dolphin Institute offers a large number of job-oriented UGC approved courses in the field of Forestry, Microbiology, Botany, Zoology, Agriculture, Statistics, Biotechnology, Industrial Microbiology, Biochemistry, Pharmaceutical Chemistry, Physiotherapy etc. The Institute is committed for providing quality education to the young students and to develop them as professionals in the field of biomedical and natural sciences.

About the Department of Forestry
 Forestry is the art and science of conservation and management of tree resources, including natural and plantation forests. The main objective of the Forestry Department of the Institute is to educate and develop skill in the field of forestry and allied subjects among the students at graduate and post graduate levels. This is with a view to creating and implementing systems that allow forests to continue a sustainable provision of environmental supplies and services. This will need the challenge of forestry in creating systems that are socially accepted while ensuring the resources that might be affected.
 Department of Forestry of the Institute was established during 2002-2003. The department has learned faculty to impart education and training to students undergoing studies not only the graduate and post graduate but also in catering to the need of different forestry institutions in India, Nepal and Bhutan for further higher studies and carrying out research, management and forest extension activities.
 The subjects that is educating the students generally involves a broad range of concepts, as existing forests to provide timber as raw material for wood products, wildlife habitat, natural water quality management, recreation, landscape, tourism, working, forest-based community development, forest business management, entrepreneurship, dendrology, floriculture, watershed and sustainable forest management, and protecting forests as sinks for atmospheric carbon dioxide, forestry integrated tourism etc. There is MoU between DISES and GGS Indraprastha University, Delhi, on various areas of forestry integrated studies on tourism, organization of conferences and exchange of faculty and students for learning from ongoing best practices in the field of forestry allied Institute in Uttarakhand and Karnataka.

Course Fees
 Fee for 1st Sem. : 10000/-
 Fee for 2nd Sem. : 10000/-
 Fee for 3rd Sem. : 10000/-
 Fee for 4th Sem. : 10000/-

Registration Charges
 Registration Fee : 500/-
 Fee for 1st Sem. : 10000/-
 Fee for 2nd Sem. : 10000/-
 Fee for 3rd Sem. : 10000/-
 Fee for 4th Sem. : 10000/-

Registration Form
 The registration form is available at www.niesseled.com or www.dolphin.edu.in

Contact
 The National Institute for Entrepreneurship & Small Business Development (NIESSELD)
 Department of Forestry, Jagdish (P.G.) Institute of Biomedical & Natural Sciences,
 Manduwala, Dehra Dun, Uttarakhand, India. Phone: 05132-271111

Shailja Pant
 Principal
 Dolphin (P.G.) Institute of
 Bio-Medical & Natural Sciences,
 Manduwala, Dehra Dun

Report 2: Intellectual Property Rights and Career Mastery

REPORT on Workshop on 'IPR and career mastery'

The Department of Biotechnology jointly organized one day workshop on “IPR and career mastery” in collaboration with Indian Institute of Patent and trademark attorney , New Delhi at the institute premises on on **03rd November, 2015.**

Dr. Sovan Bagchi, Head, Biotechnology Department welcomed the participants of the workshop followed by address by Dr. Arun Kumar, Director, Dolphin Institute. Dr. Arun Kumar explained in great detail the need and importance of Intellectual property rights with various interesting examples.

The workshop covered different aspects of intellectual property rights (IPR). The speaker of the workshop was Ms. Cheshta Sharma, Director, IIPTA. She described in very lucid languages the very complex aspects of IPR like patent, trademarks, farmer’s rights etc. The other aspects of the workshop were to guide the students to choose a career option in Intellectual property sectors. The participants were very keen to attend such a workshop of relevance to modern scientific world.

The workshop was attended by 55 students from different departments and the faculty members. The workshop was successfully coordinated by Dr. Archana Vaishnava, Dr. Shalini, Ms Deepti Gulati and Ms. Manisha Nanda.

Ms. Cheshta Sharma, IIPTA



Intearctive session with Ms. Cheshta Sharma, IIPTA



Shalini
Principal
Dolphin (P.G.) Institute of
Bio-Medical & Natural Sciences,
Manikwala, Gahra Dun

PATRONS
Mr. Arvind Gupta
Chairman, DIBNS

CONVENORS
Dr. Shailja Pant
Principal, DIBNS
Dr. Arun Kumar
Director, DIBNS

ORGANIZING COMMITTEE
Organising Secretary
Dr. Sovan Bagchi
Deptt. of Biotechnology, DIBNS

MEMBER OF ORGANIZING COMMITTEE
Dr. Archana Vaishnava
Deptt. of Biotechnology, DIBNS
Dr. Manisha Nanda
Deptt. of Biotechnology, DIBNS
Dr. Shalini Singh
Deptt. of Biotechnology, DIBNS
Ms Deepti Gulati
Deptt. of Biotechnology, DIBNS



Workshop on IPR & Career Mastery

3rd November 2015









Organized by:
Department of Biotechnology
Dolphin (PG) Institute of Biomedical & Natural Sciences, Dehradun-248007
Accredited by NAAC, Listed by UGC u/s. 2(f)

In collaboration with
IIPTA, New Delhi

The Collaborating Institutes
The above programme is being organized by Dolphin (PG) Institute of Biomedical and Natural Sciences, Dehra Dun in collaboration with Indian Institute of patent & trade mark (IIPTA), Delhi.

IIPTA
IIPTA is global platform for intellectual property services and education. ... We run various workshops, online and classroom intellectual property courses specializing in patent law, patent drafting, trademark law, copyright protection, IP finance, music law, fashion law etc.

Dolphin (PG) Institute of Biomedical and Natural Sciences (DIBNS)
DIBNS is committed to academic excellence, healthy standards in co-curricular practices, socially relevant activities, and courses leading to employment and entrepreneurship and continuous progress of the institution. The Institute is affiliated to H.N.B. Garhwal Central University, Srinagar-Garhwal (Uttarakhand) and is also approved and recognized by the State Govt. of Uttarakhand. The institute is accredited by NAAC and listed u/s 2(f) by UGC. (www.dolphininstitute.in)

Workshop on IPR & Career Mastery

3rd November 2015

Speaker
Ms. Cheshta Sharma
Director
Indian Institute of Patent and Trade Mark, Delhi

Workshop Details

Time	Session
	Auditorium
1. 10.00 to 11.00	Inaugural
2. 11:00 to 11:30	Tea Break
3. 11.30 to 1.00	General Introduction to different form of intellectual property including patents, copyright, trademark, design, geographical indications & farmer's rights etc. Patent filing & patent infringement.
4. 1.00 to 2.00	Lunch Break
5. 2:00 to 3:00	Scope of IPRs in various career aspects.
6. 3:00 to 4:00	Interactive session with participants.
7. 4:00 to 4:30	Veledictory function




 Shailja Pant
 Principal
 Dolphin (P.G.) Institute of
 Bio-Medical & Natural Sciences,
 Manduwala, Dehra Dun

Report 3: Innovative thinking for the Scientific Research

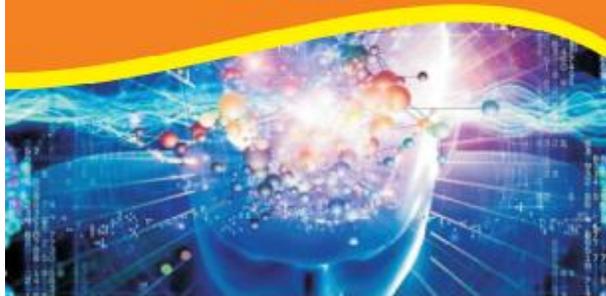
The Department of Physics & NPTEL Local Chapter, Dolphin PG Institute, Dehradun organized one day workshop on Innovative thinking for the Scientific Research on **4th April 2016**. **Prof. Manabendra Mukherjee**, Saha Institute of Nuclear Physics, Kolkata, India was the resource person of this very important event. He made our students acquainted with all those interdisciplinary science based innovative and life skills which help in attaining not just a job but a meaningful career. He told, for chasing your objective and to understand your inner voice explicitly all it takes is close observation. Dr. Mukherjee gave several experiences and success stories of ordinary yet successful person. He also briefed his scientific journey from a very ordinary school to Saha Institute of Nuclear Physics, Kolkata, India. It was a well round conversational round. It gave to our students sizeable opportunity to take their career in the right direction. On this occasion, he also interacted with our students and faculty member and participated in the discourse of interdisciplinary scientific approach with innovative thinking.



Signature
Dolphin (P.G.) Institute of
Bio-Medical & Natural Sciences,
Mansuwa, Dehra Dun



Workshop
ON
"Innovative Thinking for Scientific Research"
4th April 2016



Organized by
Department of Physics
Dolphin (PG) Institute of Biomedical and
Natural Sciences, Dehra Dun-248 007 (U.K.)

Venue

Dolphin (PG) Institute of Biomedical and
Natural Sciences, Dehra Dun (Uttarakhand)

for providing quality education to the young students and to develop them as professionals in biomedical and natural sciences. The Workshop will be held at Conference Hall of the institute.

About the Department

Located on the scenic campus of the Dolphin (PG) Institute of Biomedical and Natural Sciences, Dehradun. We started our journey in the year of 2015 and there is no looking back since then. Over the last five years, the department is growing with time with its developing state of the laboratories for learning through experiment. We have a strong Post-Graduate Programme in Physics. The curriculum of M. Sc. program is based upon UGC's choice based credit system (CBCS) and provides the in-depth study of the subject and the related areas. The foundation of the subject is built through Core courses coupled with a choice based specialization of different branches of Physics through Elective courses. Our Department maintains active research for carrying out collaborative and inter-disciplinary research. Faculty member have excellent academic credentials and are highly regarded. Our Department offers Science based outreach programme for various schools in the states. Besides this, the department offers large number of Science based activities for providing wide spectrum of options to the students to pursue their interest. The Department is also recognized as a NPTEL Local Chapter from IIT Madras.

Important Dates

Online Registration	:	1 st April, 2016
Workshop Dates	:	4 th April 2016
Workshop Timing	:	10:00 AM to 4:00 PM
Venue	:	Dolphin (PG) Institute of biomedical and Natural Sciences, Dehradun.

Who Can Attend?

The workshop is aimed at Faculty members, Research scholars and PG students from Science and Engineering.

Resource Persons

Prof. Manabendra Mukherjee, Saha Institute of nuclear physics, Kolkata (W.B.)



About Workshop Theme

This one-day workshop consists of a mix of email lectures and exercises that train your creativity and innovative thinking skills and teaches you methods and provides you with well-supported tools for innovative thinking. The workshop will focus on getting a firsthand experience with creative and innovative thinking in relation to your own scientific work. There will also be time for reflecting upon how creative thinking can be implemented in the research process and collaborations. After the workshop, you will have access to both analogue and digital training exercises to continue your training individually, in pairs or team.

Learning goals

- To get a firsthand experience with creative thinking and realise the impact it can have on your normal thinking process
- To understand that the way we think determines what we can be aware of and how we interpret our results
- To understand why and how creative thinking influence knowledge production in research
- To be able to think more flexibly and original, while doing research
- To understand how you can integrate creative thinking in your existing research method – both in theory and in practice

About the Institute

The Dolphin (PG) Institute of Biomedical and Natural Sciences, is located in Manduwala or Dehradun - Chakarata Highway, near Sudhewala about 15 kms, from the Inter State Bus Terminal (ISBT) and Dehradun Railway station. Dolphin (PG) Institute is spread over 7 acres of pure lush green campus on the outskirts of Dehra Dun and surrounded by a thick forest. The Institute is affiliated to I.N.B. Garhwal Central University, Srinagar, Uttarakhand and is accredited by UGC-NAAC. It is also approved and recognized by the State Govt. of Uttarakhand. The Institute is approved by Indian Association of Physiotherapists (IAP), Mumbai, and National Council for Teachers Education (NCTE), Jaipur. Dolphin Institute offers a large number of job/career oriented UGC approved courses in the field of Physiotherapy, Physics, Medical Lab Technology, Microbiology, Medical Microbiology, Botany, Zoology, Agriculture, Biotechnology, Industrial Biotechnology, Biochemistry, Pharmaceutical Chemistry, Chemistry, Forestry and Education. The Institute is committed



Patron

Shri Arvind Gupta, Chairman, DIBNS

Convener

Prof. Shalija Pant, Principal, DIBNS

Co-Convener

Dr. Arun Kumar, Director DIBNS

Organizing Committee

Dr. Aasheesh Raturi
Dr. Pramod Sati
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Dr. Aasheesh Raturi
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Shalija Pant
Principal
Dolphin (P.G.) Institute of
Bio-Medical & Natural Sciences,
Manduwala, Dehra Dun

Report 4: Research Methodology- SPSS & its application:

One day workshop on “Research methodology: SPSS & its Applications”

Research not only generates useful insight and confidence but also acts as a stimulant for academic growth. Sound conceptual understanding of various research methods, research instruments, tools, and techniques is an essential prerequisite for conducting empirical research. For undergoing high-quality research and writing good research papers, one requires to collect, interpret, and logically document the information. The art of drawing coherent conclusions, supported by appropriate research tools and reference citation is vital for quality research work. The recent innovations in statistical applications, availability of statistical software applications allow scholars/researchers to test more complex, multilevel, and dynamic models.

To cater to the above-mentioned interests, the Department of Commerce organized a one-day workshop on ‘Research Methodology: SPSS and its Application’ for the students of various departments on December 06, 2017. Almost 100 students attended the workshop.

The key objective of this workshop was to enable the students to formulate research proposal, develop suitable Research Methods & Data Analytical Tools, and draw better conclusions from the analysis

The resource person for the workshop was Dr. S. Javed Ashraf, Scientist ‘D’ FRI, Dehradun, Uttarakhand. He was introduced by Mrs. Rama Garg, Co-ordinator & Assistant Professor, Department of Commerce, and felicitated by Shri S. K. Sheel, Assistant Professor, Department of Biostatistics, and Shri Vipul Garg, Dean Students’ Welfare.



Resource Speaker

Dr. S. Javed Ashraf, Scientist "D"
Forest Research Institute, Dehradun, Uttarakhand

Patrons

Chief Patron: Shri Arvind Gupta, Chairman
Patron: Dr. Manjiv Pan, Principal
Patron: Dr. Arun Kumar, Director

Organizing Committee

Organizing Secretary: Mrs. Ransa Garg, Associate Professor and Course Coordinator, Commerce Department
Members: Dr. Shashi Sharma, Associate Professor
Mr. Anam Pandit, Asst. Prof., Commerce Dept.
Ms. Preema Bahuguna, Asst. Prof. (Ec. Sci.)
Mr. Vipul Garg, Associate Professor, DSW

Contact Information

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Course Coordinator, Commerce & Organizing Secretary
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Stadhovata, Chakrata Road, Dehradun-248007 (U.K.),
Mob: 91-986004196 Email: rggarg@dfi@gmail.com
Website: www.dolphininstitute.in

Venue of the Seminar

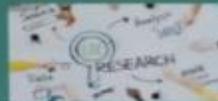
The Workshop will be held at Computer Lab of the Dolphin (PG) Institute of Biomedical and Natural Sciences, Manduwata, Dehradun. The Dolphin Institute campus is located in Manduwata on Dehradun-Chakrata Highway, nearby to Stadhovata, about 13 kms from the (New State Bus Terminal) DMT and Dehradun Railway station of the city of Dehradun.



One day Workshop on Research Methodology: "SPSS and its Application"



6th December, 2017



Dolphin (PG) Institute of Biomedical & Natural Sciences,
Dehradun- 248007 (Uttarakhand)

Invitation

Department of Commerce, Dolphin (PG) Institute of Biomedical & Natural Sciences, Manduwata, Dehradun, Uttarakhand, India cordially invites you to participate & register for "Workshop on Research Methodology: SPSS and its Application" 2017 to be organized on 6th December, 2017. The workshop will emphasize on all disciplines and provide an excellent platform to eminent scientist, researchers and students of concerned subject.

Objectives of the Conference

The key objective of this work shop is to enable the students to formulate a research proposal, to develop suitable Research Methods & Data Analytical Tools and to draw better conclusions from the analysis. The purpose of this conference is to provide a common platform to all students.

Targeted Participants

Students of M.Com, B.Com, M. Sc, Physics, M.Sc. Botany, M.Sc. Zoology, M.Sc. Zoology, M.Sc. Biochemistry, M.Sc. Microbiology, M.Sc. Life Science, B.Sc. Botany, B.Sc. Zoology, B.Sc. M.T, B.Sc. Medical Microbiology.

About Dolphin Institute

The Dolphin (PG) Institute is spread over an 87 acres of pure lush green belt in the outskirts of Dehra Dun and surrounded by a thick forest across. The Institute is affiliated to U.N.B. Garhwal Central University, Sitapur, Uttarakhand and is accredited by UGC/NSAC. It is also approved and recognized by the State Govt. of Uttarakhand. The Institute is approved by Indian Association of Physiotherapists (IAP) /Mumbai & National Council for Teachers Education (NCTE), Jaipur. Dolphin Institute offers a large number of job/career oriented UGC approved courses in the field of Physiotherapy, Medical Lab Technology, Microbiology, Medical Microbiology, Botany, Zoology, Agriculture, Horticulture, Biotechnology, Industrial Biotechnology, Biochemistry, Pharmaceutical Chemistry, Chemistry, Forestry, Physics, Education & Commerce. The Institute is committed for providing quality education to the young students and to develop them as professionals in biomedical and natural sciences.

About Dehradun

Located on the foothills of the Himalayas, the Doon Valley is nestled between two mighty rivers-the Ganga on the east and the Yamuna on the west. Dehradun is famous for its picturesque landscape and is a gateway to the surrounding region. It is well connected to popular air/rail/road routes to Jaipur, Haridwar & Roorkee. The weather of Dehradun during December is Cool, therefore light woollen are suggested.

About Department of Commerce

The department of Commerce at Dolphin Institute offers 2 years PG programme in Commerce and 3 years UG programme in Commerce. The course content includes Financial Management, Marketing Management, Human Resource Management, Research Methods & Insp. Statistics, Managerial Accounting, Legal Aspects of Business, Organizational Design, Development and Change, Corporate Financial Accounting, Management Principles and Practice, Business Environment, Managerial Economics, Computer Application in Business, Business Communication, International Business Management of Financial Services, Income Tax: Laws and Practice, Financial Markets and Institutions, Security Analysis and Portfolio Management, Marketing, Marketing Communication, E-Commerce, Project Planning and Evaluation, Project Report, Seminar and Viva Voce, Risk Management and Insurance, International Financial Management, Marketing, International Marketing, Entrepreneurship Development etc.

The centre opportunities after completing post graduation (M.Com.) and Graduation (B.Com.) in the field of commerce are numerous both in financial & non-financial public & private sector as well as the various government organisations various ministries of State & Central Government. The commerce post graduates can make excellent growth oriented career in higher positions in the field of banking, non-banking financial services, health care industry as well as education sector. Besides, they can enroll in various ventures & service industry.

Registration

There is no fee


Principal
Dolphin (P.G.) Institute of
Bio-Medical & Natural Sciences,
Manduwata, Dehra Dun

Report 5: Research methodology-Numerical analysis and its application

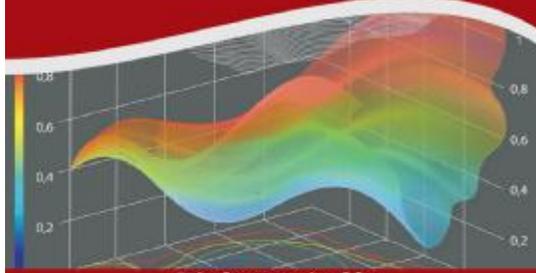
The Department of Physics, Dolphin PG Institute, Dehradun and Research Development and Services Cell, Ramanujan College, Delhi University jointly organized a National Workshop on **Research methodology-Numerical analysis and its application (5th & 6th Nov, 2018)**. This workshop has come into being with the collaboration of (Department of Physics) Dolphin (P.G) College of biomedical and natural sciences and Delhi University's Ramanujan College. The participants were from different departments of Dolphin college. A total of some 47 participants have turned up to attend the event diligently. The resource person Dr. Nikhil Rajput from Ramanujan College laid the complete plan of two days workshop. First day session started with introduction to the fundamentals by the Dr. Rajput which later provided upskilling techniques, the whole day went engrossed in grasping of new ideas through hands-on. The second day session was opened up for two-way discussion & FAQ, where in students participated with insanely high zeal. Dr. Rajput emphasized over the application of computational and numerical theory and guided the students over connecting the theoretical assumption with numerical theory and guided the students over connecting the theoretical assumption with computation for validation of the theory in order to maintain the real existence of science based research. The whole workshop was highly informative and encouraging for all the participants.



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Workshop
ON
**"Research Methodology - Numerical Analysis
&
Its Application"**
5th to 6th November 2018



Jointly organized by
Department of Physics
**Dolphin (PG) Institute of Biomedical and
Natural Sciences, Dehra Dun-248 007 (U.K.)**
&
Research Development and Services Cell
Ramanujan College, Delhi University

Venue
Dolphin (PG) Institute of Biomedical and
Natural Sciences, Dehra Dun (Uttarakhand)

About Workshop Theme

The scope of the workshop is rather broad. Numerical and application oriented directions involving differential equations, optimization problems, and eigenvalue problems, as well as analytical approaches on such subjects are within the scope of the workshop.

The course of "Numerical methods and mathematical modeling" includes:

- Sources of error in numerical computation
- Numerical integration
- Numerical differentiation
- Runge's rule for practical error estimation and adaptive calculations
- Numerical stability
- Methods of solutions of the Cauchy problem for ordinary differential equations and their practical realization
- Numerical methods of linear algebra: inverse matrix
- Extremum searching algorithms
- Discrete Fourier transform and fast Fourier transform
- Partial differential equations on example of the heat transfer equation. Spectral method for stability analysis

About the Institute

The Dolphin (PG) Institute of Biomedical and Natural Sciences, is located in Manduwala on Dehradun - Chakarata Highway, near Sadthowala, about 15 kms. from the Inter State Bus Terminal (ISBT) and Dehradun Railway station. Dolphin (PG) Institute is spread over 7 acres of pure lush green campus on the outskirts of Dehra Dun and surrounded by a thick forest. The Institute is affiliated to H.N.B. Garhwal Central University, Srinagar, Uttarakhand and is accredited by UGC - NAAC. It is also approved and recognized by the State Govt. of Uttarakhand. The Institute is approved by Indian Association of Psychotherapists (IAP) Mumbai, and National Council for Teachers Education (NCTE), Jaipur. Dolphin Institute offers a large number of job/career oriented UGC approved courses in the field of Physiotherapy, Physics, Medical Lab Technology, Microbiology, Medical Microbiology, Botany, Zoology, Agriculture, Biotechnology, Industrial Biotechnology, Biochemistry, Pharmaceutical Chemistry, Chemistry, Forestry and Education. The Institute is committed for providing quality education to the young students and to develop them as professionals in biomedical and natural sciences. The Workshop will be held at Conference Hall of the Institute.



About the Department

Located on the scenic campus of the Dolphin (PG) Institute of Biomedical and Natural Sciences, Dehradun. We started our journey in the year of 2015 and there is no looking back since then. Over the last five years, the department is growing with time with its developing state of the art laboratories for learning through experiment. We have a strong Post-Graduate Programme in Physics. The curriculum of M. Sc. program is based upon UGC's choice based credit system (CBCS) and provides the in-depth study of the subject and the related areas. The foundation of the subject is built through Core courses coupled with a choice based specialization of different branches of Physics through Elective courses. Our Departments maintains active research for carrying out collaborative and inter-disciplinary research. Faculty member have excellent academic credentials and are highly regarded. Our Department offers Science based outreach programme for various schools in the states. Besides this, the department offers large number of Science based activities for providing wide spectrum of options to the students to pursue their interest. The Department is also recognized as a NPTEL Local Chapter from IIT Madras.

Important Dates

Workshop Dates	:	5 th to 6 th Nov., 2018
Workshop Timing	:	10:00 AM to 4:00 PM
Venue	:	Dolphin (PG) Institute of biomedical and Natural Sciences, Dehradun.

Who Can Attend?

The workshop is aimed an Faculty members, Research scholars and PG students from Science and Engineering.

Resource Persons

Dr. Nikhil Rajput, Ramanujan college, University of Delhi



Patron
Shri Arvind Gupta, Chairman, DIBNS

Convener
Prof. Shalija Pant, Principal, DIBNS

Co- Convener
Dr. Arun Kumar, Director DIBNS

Organizing Secretary
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Dolphin (P.G.) Institute of
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Report 6: Use of ICT in Education and Research Methodology

Day 1:(11-06-18) On the first day the programme was inaugurated by the dignitaries and the session was marked by the practical training on how to create classroom home page in computer and teachers personalized home page wherein detail information regarding syllabus, reference books, evaluation system, credit, marks notes uploading by teachers and assignment uploading by students, creation of subject wise classrooms in computer etc. were taught.

Day 2: (12-06-18) on the second day the session was started off by Dr. Prakhar Wadhwa, Assistant Professor, Ramanujan College, Delhi University. In the first half, he introduced the fundamentals of Advance Excel Workbook and worksheet and then he walked the participants through 3 Exercises that dealt with following:

- Sentence case without any solution.
- Identify the duplicates.
- VLOOKUP function and merger of the EXCEL sheets.
- Arrange the data in increasing and decreasing order of area under cultivation.

In the session, each participant has performed the above task on their own on their systems and the same work evaluated and rectified by the resource person Dr. Nikhil Rajput and Dr. S.K. Sharma.

At the end of the session the queries of participants were sorted out by the facilitators.

The post lunch session, continued also continued by Dr. Prakhar Wadhwa. In this session the more functions of advance EXCELS worksheet were demonstrated by the him.

The feature included were:

- Representation of the data in the pivot table.
- Regression analysis for the given data.
- Co-relation between profit and market capitalization.
- Correction of wrong spellings.

All these features of advance EXCEL sheet was then executed by the participants in an interesting manner.

At the end of the session, Dr. Nikhil Rajput encapsulated about the Google Documents and how one can create online registration form for the Departmental or institutional workshops.



Shalika
Principal
Dolphin (P.G.) Institute of
Bio-Medical & Natural Sciences,
Manduwa, Gera Dun

With this the session of second day program was concluded with the hope to see the next day session with new areas of learning.

Day-3(13-06-18): On the 3rd day of Faculty Development Program(FDP), Dr. Nikhil Rajput (Asst. Prof) Ramanujan College, Delhi University was the resource person for this session. In the beginning of the session, the remaining aspects from day 2 were touched upon and some other important feature of Google docs and forms and sheets were recapitulated by resource person. After that his topic for the day was “LATEX (Basics)”. He began the topic by explaining how LATEX works and the importance of this in document preparation. Further, he emphasized on the revolutionary features of LATEX by using it teaching and learning can be more meaningful and well presentable in an organized documentation form. He came up with an example where he prepared Basic documents like Articles, Research papers, Posters, etc.

On the second session of the day, resource person was the same. He started his discussion with the recap of the previous session. He talked about research papers, thesis, Books, can be written in well-organized manner that too in a time saving way with the help of this versatile software. Moreover, he added that the class room presentations can also be made through the same.

At the end of the session he interacted with the participants through personalized explaining to solve out their queries.

With this, the third day session program was ended up with the hope to see the next day session with new domains to work on.

Day-4(14-06-18): On the 4th day of the FDP programme Dr. Archana Shukla, officer of Indian Statistical Services and assistant director at MHRD has delivered an informative lecture on fundamental tool of statistics in research and methodology. In the first half, participants were gained with the knowledge on Central Tendency (Mean, Mode, Median), Skewness, Co-relation, Precision, etc. She inspired the participants to work on actual data sets in different realms of research.

In the post lunch session, Dr. Ashish Shukla(Asst. Prof) Dept. Of Stat. Ramanujan college, DU, introduced the co-relation coefficient, coefficient of determination, Prediction, Validation, Cross validation, Multi varied analysis, Regression, Regression coefficient. And he extended these parameters implementation on the EXCEL as well.

He emphasized on the interpretation of outcome of the statistical calculation is important than a solution, further, he added without actual interpretation results can't exist in the long run.

With this the session was brought to the conclusion itself with the hopes for the next day with new learnings.

Day 5 :(15-06-18): on the 5th day the session was facilitated by Resource Person Dr. Ashish Shukla and Dr. Sachin Tomar (Asst. Prof, Dept. of statistics) from Ramanujan college, DU. the first half of the session broadly revolved around the statistical software SPSS, the participants were provided with the information of various software such as, An nova, Regression, Co-relation, and so on so forth. Besides this, the participants were made familiar with the working know how of the same software, and thus was an excellent attempt to make the participants technology savvy.

Whereas in the post lunch session, the participants were asked to try their hands on the same topic already been discussed. This was one of the enjoyable and much sought after session.

Day 6 and 7 :(16&17-06-18): Hands on SPSS was continued. The session was more of a practical based and was open to multiple queries. Later, the feedback was taken from the participants.



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National Workshop


ON

"Use of ICT in Education and Research Methodology"
11th to 17th June 2018

Sponsored by:
 Ministry of Human Resource Development
 (Pandit Madan Mohan Malviya
 National Mission on Teachers & Teaching)



Jointly organized by
Department of Physics
 Dolphin (PG) Institute of Biomedical and
 Natural Sciences, Dehra Dun-248 007 (U.K.)
 &
 Research Development and Services Cell
 Ramanujan College, Delhi University

Venue
 Dolphin (PG) Institute of Biomedical and
 Natural Sciences, Dehra Dun (Uttarakhand)

About Workshop Theme

The workshop is based on applications of Information and Communication Technology (ICT) in science education and research system, ICT is the mode of education that uses information and communication technology to support and augment, the delivery of learning information. The accreditation bodies NBA & NAAC also value the use of ICT identified teaching process for qualitative outcomes.

OBJECTIVE OF WORKSHOP

- Introduction to ICT as a mode of education
- Application in Education and research
- Training on MOODLE: Learning Management System
- Training on Active Learning Techniques
- Learning Outcome based Evaluation Technique

About the Institute

The Dolphin (PG) Institute of Biomedical and Natural Sciences, is located in Manduwala on Dehradun - Chakarata Highway, near Sudhewala, about 15 kms. from the Inter State Bus Terminal (ISBT) and Dehradun Railway station. Dolphin (PG) Institute is spread over 7 acres of pure lush green campus on the outskirts of Dehra Dun and surrounded by a thick forest. The Institute is affiliated to H.N.B. Garhwal Central University, Srinagar, Uttarakhand and is accredited by UGC - NAAC. It is also approved and recognized by the State Govt. of Uttarakhand. The Institute is approved by Indian Association of Physiotherapists (IAP) Mumbai, and National Council for Teachers Education (NCTE), Jaipur. Dolphin Institute offers a large number of job/career oriented UGC approved courses in the field of Physiotherapy, Physics, Medical Lab Technology, Microbiology, Medical Microbiology, Botany, Zoology, Agriculture, Biotechnology, Industrial Biotechnology, Biochemistry, Pharmaceutical Chemistry, Chemistry, Forestry and Education. The Institute is committed for providing quality education to the young students and to develop them as professionals in biomedical and natural sciences. The Workshop will be held at Conference Hall of the Institute.

About the Department

Located on the scenic campus of the Dolphin (PG) Institute of Biomedical and Natural Sciences, Dehradun. We started our journey in the year of 2015 and there is no looking back.




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since then. Over the last five years, the department is growing with time with its developing state of the art laboratories for learning through experiment. We have a strong Post-Graduate Programme in Physics. The curriculum of M. Sc. program is based upon UGC's choice based credit system (CBCS) and provides the in-depth study of the subject and the related areas. The foundation of the subject is built through Core courses coupled with a choice based specialization of different branches of Physics through Elective courses. Our Department maintains active research for carrying out collaborative and inter-disciplinary research. Faculty members have excellent academic credentials and are highly regarded. Our Department offers Science based outreach programme for various schools in the states. Besides this, the department offers large number of Science based activities for providing wide spectrum of options to the students to pursue their interest. The Department is also recognized as a NPTEL Local Chapter from IIT Madras.

Important Dates

Online Registration	:	1 st June, 2018
Announcement of Confirmation	:	10 th June, 2018
Workshop Dates	:	11 th to 17 th June, 2018
Workshop Timing	:	10:00 AM to 4:00 PM
Venue	:	Dolphin (PG) Institute of Biomedical and Natural Sciences, Dehradun.

Who Can Attend?

The workshop is aimed at Academicians, Faculty members, Research scholars and PG students from Science and Engineering.

Resource Persons

Dr. Nikhil Rajput, Ramnayan college, University of Delhi
 Dr. S.K. Sharma, Khalsa College, University of Delhi
 Dr. Prakhya Wadhawa, Ramnayan college, University of Delhi
 Dr. Archana Sukla, IIS, MHRD, New Delhi
 Dr. Ashish Sukla, Ramnayan college, University of Delhi
 Dr. Sachin Tomar Ramnayan college, University of Delhi



Schedule of Events

Day 1	9:00 AM – 10:00 AM	Registration
	10:00 AM – 11:30 AM	Google Classroom (Managing Class Online)
	11:30 AM – 12:30 PM	Tea Break
	12:30 PM – 01:30 PM	Google Classroom (Managing Class Online)
	1:30 PM – 2:30 PM	Lunch
	2:30 PM – 4:00 PM	Making Course Homepage
	04:00 PM – 04:15 PM	Tea Break
04:15 PM – 5:30 PM	Making Course Homepage	
Day 2	09:00 AM – 10:30 AM	Advanced Excel
	11:30 AM – 12:30 PM	Tea Break
	12:30 PM – 01:30 PM	Advanced Excel
	1:30 PM – 2:30 PM	Lunch
	2:30 PM – 4:00 PM	Google Docs, Forms and Sheets
	04:00 PM – 04:15 PM	Tea Break
	04:15 PM – 5:30 PM	Google Docs, Forms and Sheets
Day 3	09:00 AM – 10:30 AM	LATEX (Basics)
	11:30 AM – 12:30 PM	Tea Break
	12:30 PM – 01:30 PM	LATEX (Preparing basic documents)
	1:30 PM – 2:30 PM	Lunch
	2:30 PM – 4:00 PM	Data Analysis
	04:00 PM – 04:15 PM	Tea Break
	04:15 PM – 5:30 PM	Data Analysis
Day 4	09:00 AM – 10:30 AM	SPSS
	11:30 AM – 12:30 PM	Tea Break
	12:30 PM – 01:30 PM	SPSS
	1:30 PM – 2:30 PM	Lunch
	2:30 PM – 4:00 PM	LATEX (Writing Research Paper)
	04:00 PM – 04:15 PM	Tea Break
	04:15 PM – 5:30 PM	LATEX (Writing Thesis and making presentations)
Day 5	09:00 AM – 10:30 AM	Project 2 Content
	11:30 AM – 12:30 PM	Tea Break
	12:30 PM – 01:30 PM	Creating MOOC
	1:30 PM – 2:30 PM	Lunch
	2:30 PM – 4:00 PM	Creating MOOC
	04:00 PM – 04:15 PM	Tea Break
	04:15 PM – 5:30 PM	Creating MOOC
Day 6 & 7	09:00 AM – 10:30 AM	Group presentations
	11:30 AM – 12:30 PM	Tea Break
	12:30 PM – 01:30 PM	Group presentations
	1:30 PM – 2:30 PM	LUNCH
	2:30 PM – 5:00 PM	certificate and Certificate



Patron

Shri Arvind Gupta, Chairman, DBNS

Convener

Dr. Nikhil Rajput
 Assistant Director Teaching Learning Centre
 Ramnayan College, University of Delhi

Co-Convener

Prof. Shalika Pant, Principal, DBNS
 Dr. Arun Kumar, Director DBNS

Organizing Committee

Dr. Aashish Bahari
 Dr. G.N. Sinha
 Dr. Aditi Chandra
 Dr. Shalini Singh
 Dr. Deepak Kumar

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Report 7: Scientific Writing Skills

How to enhance the skills of scientific writing

Conducting research followed by its publication in a scientific journal is the backbone of evidence-based research. There are various opportunities to conduct research such as postgraduate students, working as a researcher, and involvement in clinical trials. In any research, the research question is the central point and the researcher has the answer at the end. If the research question and its answer are significant which will help in the furthering of science, this research must be published. It is important to remember that improper writing should not come in the way leading to the rejection of good research. Selection of the journal for submission is also important and should be done based on the journal preference, importance, and readership of the journal. The quality of work and the quality of the journal should match. The purpose of this workshop is to provide some guidelines while writing a paper so that the paper is not rejected due to improper writing.

We have to package a message in any scientific paper in the form of a problem, how to get the answer to this problem, and the significance of this finding (the discussion). We always want to read clear, substantive, and short papers. The paper has to be edited carefully and should be revised several times. Writing takes time and needs concentration. Writing the paper requires full involvement wherein multi-tasking cannot be done. Remember for scientific writing, one has to be a turtle and not a hare to do it properly. Once the paper has been written and finalized, it is a good idea to give it to a friend, who may be from a different discipline, to read it critically. If he/she, belonging to a different discipline, has understood it correctly, consider your paper to be well written. You should also forget about this paper for a short while and again read it afterward; you may find plenty of scope for improvement which you would have missed if you would not have given a gap.

The paper has to be formatted properly and written clearly. The scientific paper is written in IMRaD format wherein “I” stands for Introduction, “M” stands for Materials and Methods, “R” stands for Results, and “D” stands for Discussion. The introduction should provide the background based on the available literature. It should also highlight the controversy or lacunae in the literature. Most of the sentences in the introduction should be referenced. There is no place for bookish knowledge in this section. It should end with the aim of the study in the form of a research question.

Materials and Methods should describe the research plan. It should be in detail but compact. It should mention the sample size calculation details with inclusion and exclusion criteria. The randomization, as well as blinding methods, should be described. The outcome measures estimation should be precisely provided. The statistical analysis including the statistical tests performed should be mentioned. Finally, the Institutional Review Board Ethics Committee approval has to be obtained and mentioned.

The results section describes the actual finding with their statistical analysis. Results are described in a combination of text, tables, and graphs. There should not be any duplication in the description. If certain data are given in either table or graph format, there is no need to repeat the entire facts in the form of text. Since the entire raw data cannot be reproduced, its summary in the form of rate, ratio, proportion, central tendency, spread, and confidence interval must be given based on the type of data gathered. Data should be described without any deviation or distortion.

Discussion is the most difficult section to write. It should begin with the aim of the study followed by the main findings of the study. Subsequent paragraphs should be devoted to the discussion/comparison of this study data with the existing knowledge from the literature. If the data refute the existing knowledge, we must provide a plausible explanation for the differing data. The penultimate paragraph must discuss the strengths and weaknesses of this study. The final paragraph should summarize the conclusion in a sentence or two. It cannot be generalized and should be only based on the data described in the results section. Furthermore, mention a sentence about the possible direction or further avenue of research opened up based on this study.

The other parts of the article are title, abstract, keywords, references, and acknowledgment. The title should be short, convey the gist, and include some important keywords. These qualities of a title will help other researchers while searching literature concentrating on the title. The abstract should contain all the essential segments of the main paper, but one has to maintain the word count limit provided by the journal. The flow and sequence of the abstract will be the same as the main text. Only the important aspects of the results should be mentioned due to the word count limit. The conclusion should be based on the data provided in the abstract only. References should be formatted as per the guidelines and policy of the journal. All those, who have helped but do not qualify to be included as an author, should be acknowledged.

Some general principles should be kept in mind while preparing the manuscript. First, the instructions to authors from the intended journal for submission must be read thoroughly and strictly adhered to. Always use simple language with short sentences having clear meaning. Do not use unfamiliar or uncommon words. If anyone has to reread a sentence or consult a dictionary to understand, the writing is improper and is not scientific writing. There is no scope for grammatical errors. In the discussion section, always create a flow. Write the topic sentence at the beginning of each paragraph and elaborate this statement in that paragraph. Short and crisp papers are liked by all. Space is limited in a journal and is at a premium hence repetition should always be avoided.