



Campus Jottings

UPCOMING EVENTS

- **One Day National Student Seminar On Current Issues and Challenges of Indian Economy on 11th Nov, 2016.**
- **3rd International Conference on Recent trends & Advancement in Engineering Technology from 17th -18th Nov, 2016.**
- **Titiksha: Annual Technical Festival from 18th - 20th Nov, 2016.**

PATRON

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One Day Workshop on “Patent Drafting & Filing”

One Day Workshop on “Patent Drafting and Filing” was organized by the Department of Biotechnology, Shri Mata Vaishno Devi University, Katra in collaboration with Technology Information, Forecasting and Assessment Council (TIFAC), Department of Science & Technology (DST), Govt. of India on 20th October, 2016. The Workshop was chaired by Prof. Sanjeev Jain, Hon'ble Vice Chancellor, SMVDU, who in his Inaugural Address stressed upon the importance of knowledge for technical aspects of Patent Filing and the

procedures central to technological research. Prof. Jain appreciated that the Faculty and Research Students of the SMVDU have highly innovative



pa- tentable ideas, and he expected that their participation in the Workshop would be useful to enrich the status of the University at International level by claiming rights for such technologies. The Coordinator of the Workshop Prof. V. Verma, Head, Department of Biotechnology and Dean Faculty of Engineering in his opening remarks highlighted the need for seeking Intellectual Property Rights in scientific research so that we would not forego on traditional information that has been transferred down from the *Guru-Shishya* system. He illustrated how the CSIR has been able to claim rights globally for traditional uses of medicinal plants such as Neem, Ashwagandha, etc.

In the first Technical Session, Prof Prabhat Ranjan, the Executive Director, TIFAC; Guest of Honour for the occasion spoke in detail about the Technology Vision 2035 prepared by the TIFAC for seeking protective rights on varied fields of Science and Technology. He also showcased some of the latest upcoming technologies that would be available to the common man by 2020. Dr Aruna Tiwary, an IPR Scientist, PFC, TIFAC; spoke about 'Patent Information and its Accessibility' describing the nitty-gritty of doing a patent search and drafting the same. During the second Technical Session, Prof. H. S. Chawla, Prof. & Head, Genetics and Plant Breeding, G. B. Pant University of Agriculture & Technology briefed the participants about the various methods of Management of Intellectual Property Rights.



He illustrated examples from the Biotechnology Sector, where in, we have been able to enforce our rights on some of the inventions made by Indian Scientists and Industrialists. Dr Schachindra Pandey, Senior Associate, K & S Partners Intellectual Property Attorneys briefed the participants about the features of an invention that would help in proving its novelty and inventiveness in the patent system, and the aspects to be taken into consideration for preparing an acceptable application by the inventor. Dr. Umesh Pandey, Assistant Controller, Indian Patent Office explained the details of the procedures involved in the Patenting System in India and the functions of Patent offices at various locations in India. Dr. Shafaq Rasool, Asst. Prof., DoBT, the Organizing Secretary of the workshop presented the Vote of Thanks, and Ms. Tishu Devi, Research Scholar, DoBT conducted the proceedings of the Workshop. The Workshop attracted 150 participants from all teaching Departments of SMVDU, Shri Mata Vaishno Devi Shrine Board, Katra; University of Jammu; Central University of Jammu; University of Kashmir, Srinagar and CSIR-IIIM, Jammu.

Entrepreneurship Skill Development Program Inaugurated

Entrepreneurship Skill Development Program on 'Business Development' was organized by the Entrepreneurship Development Cell, Shri Mata Vaishno Devi University in collaboration with the MSME Development Institute, Jammu on 20th Oct, 2016. During the inauguration session, Prof. Sanjeev Jain, Vice Chancellor, SMVDU encouraged the participants to avail the benefit of the Entrepreneurship Development Cell & Technology Business Incubation Center, SMVDU. He emphasized on innovation and the proper utilization of resources while starting up a business. Prof. Jain also threw light on the issue 'whether entrepreneurs are born or can be trained' and also called for imbibing and inculcating novel techno-management skills for better learnings and education.



Mr. Virinder Sharma, Director MSMEDI, Jammu, provided a brief description about the program. He energized the participants to exploit the opportunities and enhanced their abilities in business development. Prof. G.M. Bhatt, University of Kashmir, was present as special guest and resource person for initial sessions of the ESDP; he reflected upon the importance of ideation and protection. He also focused on enhancing the entrepreneurial skills and improving the technology which could further results in upgradation of India's rank in number of patents filed till date. Prof. V. Verma, Dean, Faculty of Engineering, Prof. V.K. Bhat, Dean, Faculty of Management wished success to the program and referred it as another feather in the cap of the Entrepreneurship Development Cell of SMVDU. He mentioned that such kind of programmes under the umbrella of EDC would definitely help in generating more employment. Earlier Dr. Supran K. Sharma, Chief Coordinator EDC, SMVDU, welcomed the participants, guests and faculty members. Adding to the details of the event, Dr. Sharma briefed the participants about the duration and requirements of the program. The session received an enthusiastic response from the participants. A total number of thirty participants from different streams of B. Tech., MBA, and Economics registered for the program. Overall the programme covered 60 sessions, including lecture sessions, hands-on trainings and industrial visits, etc. by different resource persons from academia, industry stalwarts and from Area Experts. Dr. Sushil K. Mehta, School of Business, delivered a formal Vote of Thanks in the end of the programme.

Professional Development Programme conducted for Non-Teaching Staff

One day Professional Development Programme for Enhancement of Computer Skills for Non-Teaching Staff of SMVDU was organized by the Internal Quality Assurance Cell (IQAC) of SMVD University on 15th Oct, 2016. The aim of this Professional Development Programme was to upgrade the computer skills of non-teaching staff members of the SMVDU. Under the Chairmanship of Prof. Sanjeev Jain, Hon'ble Vice-Chancellor, this was the first Professional Development Programme organised by the IQAC of SMVDU. While welcoming the participants, Prof. V.K. Bhat, Director, IQAC, SMVDU assured that it would be a continuous process, and such kind of programmes should be conducted under the umbrella of IQAC,

Dr. Jyoti Sharma and Workshop Coordinator Dr. Balbir Singh inspired the participants to increase their horizon of knowledge through active participation in such kind of development programmes. The four sessions were conducted in this workshop by in-house Resource Persons from Department of Computer Science and Engineering. The sessions included theory and hands-on sessions on topics, i.e. MS-Office and latest upgrades in using MS office; e-mails/group mails; Google cloud; Google forms, etc. More than 70 non-teaching staff members of SMVDU working at various designations including Section Officer; Office Assistant; Junior Assistant; Para-Medical Staff; Library Staff; Workshop Operator; Technical Staff, etc. took active participation in the programme.



Architecture Students Observed SWACHH BHARAT DIWAS

On the eve of Gandhi Jayanti, the Department of Architecture and Landscape Design, SMDV University organized *Swachh Bharat Diwas*, collaborating with the Block Development Authority (Panthal) and the Gram Panchayat (Sirah Kotla). The organizers selected the market area and carried out a vigorous cleaning drive throughout the day, which received a huge support from all the stakeholders. The students from the Department of Architecture and Landscape Design also proposed the idea of installation of dustbins and public toilets for the market road to make this initiative sustainable, which was further approved by the Block Development Officials.



After the cleanup, the students involved in various activities to spread awareness among the villagers about the Waste Management and Proper Disposal Methods through slogan chanting, talking to the shopkeeper's association as well as carrying this drive further into the village through door-to-door propagation. The street was very polluted of the plastic waste that has been generated there since the inception of Shri Mata Vaishno Devi University in 1999 and with the recent set-up of Shri Mata Vaishno Devi Narayana Super Specialty Hospital last year. The villagers under ignorance and pressure used to get rid of the waste by burning it every day (including plastic waste) or disposed it off in public spaces. Consequently, the environmental pressure increased many folds as the footfall in the village started growing exponentially. The students informed the villagers of the risk of the rising amount of waste and health hazards through this cleanliness drive in their undertaken initiative. The *Swachh Bharat Divas* drive concluded with Gandhi Jayanti celebration, and the organizers received a positive response from the village community which gave them a ray of hope for a "Cleaner and Greener India." Furthermore, Graffiti were made on University walls facing the market to spread the awareness drive. A small street play was also organized by the students late in the evening after the Ram-Lila to capture and spread awareness among the villagers who were gathered there to witness the cultural play based on *Ramayana*.

National Level MDP on "Creating Highly Effective Family Businesses"

A National Level Management Development Programme on "Creating Highly Effective Family Businesses" was successfully organized by the School of Business, Shri Mata Vaishno Devi University, Katra on 23rd Oct, 2016. Mr. Rakesh Gupta (CA), Director, J&K Bank Ltd was the Chief Guest of the inaugural program & Mr. Anil Suri, Former Chairman, Federation of Industries, Jammu & Former President, BBIA was the Guest of Honour.



The program aimed at equipping participants with the concepts of creating a viable family business environment for owners and entrepreneurs through developing workable plan(s) and providing key to success in the family business via peer discussion, sharing experience of business speakers and experts in the related areas. During the inaugural ceremony, Dr. Sanjay Kumar Mishra, Assistant Professor, SoB and Program Coordinator formally welcomed the gathering and briefed the audience about the program. Delegates registered for the programme came from different States, representing wide spectrum of academia. The faculty members and research scholars from other Departments of SMVDU were also present during the inaugural programme.

In the subsequent technical session's eminent personalities and successful entrepreneurs delivered Lectures on various dimensions of successful and effective family business. Mr. Rakesh Gupta (CA), Director, J & K Bank shared his views on strategies for getting best from the family business. Mr. Anil Suri discussed various aspects of continuity planning for family shareholder group. The eminent industrialist and Chairman, Confederation of Industries (Jammu Chapter) & Managing Director, K. C. Group, Mr. Raju Chowdhary shared his vision on developing next generation leadership in family business. Prof. Manoj Joshi, Professor of Strategy Entrepreneurship & Innovation, Amity Business School, Amity University highlighted the evolution, transition and governance in family business. Overall, all the sessions were highly interactive and effective.

Short Term Course on Optimization Using MATLAB conducted By DoME

The Department of Mechanical Engineering SMVDU organized a one week ICT based short term course on Optimization using MATLAB in collaboration with the NITTTR, Chandigarh from 24th Oct. 2016 to 28th Oct. 2016.

The course was an interdisciplinary course covering a wide range of participants not only from engineering background but also science, management, etc. The course focused on the Optimization i.e finding the ultimate or the best solution of the multivariate problems using a soft tool MATLAB. The course was jointly coordinated by Er. Yatheshth Anand, Astd. Prof., DoME, FoE, SMVDU and Dr. Naveen Gondhi, Astd. Prof., DoCSE, FoE, SMVDU along with the NITTTR Chandigarh. The course covered a wide range of topics pertaining to optimization.



The discussions/lectures were delivered by some eminent professors and were focused on the linear programming problems; their formation & travelling salesman problems with a training emphasis on MATLAB. The hands on training on the Optimization tool and solving of Linear & Non- linear Problems with emphasis on intelligent techniques for engineering optimization using MATLAB was also part of the course.

Physical Training Session Conducted

The course titled 'Discourse on Human Virtues' (PCL 1067) is being offered as a compulsory course to the students of SMVDU to impart value education among them. In order to provide a direct experience of the alignment of their mind and body, a physical training session was conducted by the Department of Philosophy & Culture at 5.30 AM on 7th October 2016. The programme was held in the back lawn of the Guest House. More than 300 students participated in the event, they learnt the relevance of mental and physical health.



The session was conducted by Mr. Gurmel, Junior Assistant in the security office. Dr. Anil K. Tewari, Dr. Ashoka K. Tarai and Mr. Sumanta S. Sharma, Asst. Profs., DOPC, were the faculty coordinators of the event. Various yoga positions were demonstrated by the instructor and the students actively and cheerfully followed them. A part of the course involves the sensitization of students regarding the activities of their mind and body.

Faculty Update

Prof. (Dr.) V. Verma, Head, DoBT & Dean, Faculty of Engineering have attended and delivered on the topic "Plant Tissue Culture and Genetic Engineering" on 8th & 10th September, 2016 at (SKUAST-J), Chatha, Jammu and Prof. Verma was the Guest of Honor in the Valedictory function.

Dr. Sharada M. Potukuchi, Associate Professor, Department of Biotechnology Delivered a Plenary Lecture on "Career Opportunities for Women: IPR and Entrepreneurship" pp: 37, during the "4th J&K Women Science Congress " organized by Govt. College for Women, Gandhinagar, Jammu on 1st Sept. 2016.

Dr. Ajay Koul, Assistant Professor, Department of Computer Science and Engineering presented Paper titled " Projection profile based Ligature Segmentation of Nastaleeq Urdu OCR " presented at International Symposium on Computational and Business Intelligence at olten Switzerland on 6th of September 2016.

Dr. Ram Prakash, Assistant Professor, Department of Physics, published a Paper entitled "Resonant photoemission spectroscopic studies of Eu₂O₃ thin film" co-authored by Sandeep Kumar, Ram Prakash, R. J. Choudhary, D. M. Phase. Journal of Applied Physics, 120 (2016) 125309. Publisher: AIP Publishing, Impact Factor: 2.101; DOI: <http://dx.doi.org/10.1063/1.4963360>.

Dr. Rakesh Kumar, Assistant Professor, Department of Mathematics was invited to deliver a talk in the "Silver Jubilee Conference of the Jammu Mathematical Society and A National Seminar on Recent Developments in Complex Analysis, Operator Theory, and Related Areas" at Department of Mathematics, University of Jammu during October 20th -22nd, 2016. He delivered his talk on the topic-Queuing Systems with Customers' Impatience-Recent Extensions.

Dr. Indu Sharma, Assistant Professor, Department of Biotechnology , got Best Presentation Award at International Conference on Engineering and Technology ICET-2016 held on 28th & 29th Oct. 2016 at New York (US). There was about 50 delegates present in the conference and have presented on different area of Science, Technology & Engineering. The title of my presentation was "Enhancement in the production of enzyme isolated from microorganism of Himalayan region of J&K (India) using various statistical and fermentation techniques".

1st Thursday Mind-Meet

Following up valuable advice and inspiration from Hon'ble Vice-Chancellor Prof. Sanjeev Jain, "Thursday Mind-Meet" platform is envisaged to organize regularly expert lectures, panel discussions, debates, brainstorming sessions, etc. on the topics of contemporary relevance in the evening of every Thursday. We started in a moderate way with a panel discussion on the theme "Impact of GST on Indian Economy" on 27th October 2016. The list of the panelists included:

1. Dr. Sanjay Kumar Mishra, Asst. Prof., SOB
2. Dr. Pabitra Kumar Jena, Asst. Prof., DOE
3. Dr. Saukat, Asst. Prof., DOE
4. Dr. Kirti Ranjan Palta Singh, Asst. Prof., DOE
5. Mr. Amarjeet Singh, Asst. Prof., DOE
6. Mr. Akash Srivastava, B. Tech. (ME) 7th Sem.
7. Mr. Vimarsh Padha, M. Sc. (Eco.) 5th Sem.
8. Dr. Anil Kumar Tewari, Asst. Prof., DOPC (Moderator)

The program started with a welcome address by Dr. Anil Kumar Tewari (moderator & coordinator). He also initiated the discussion by introducing the constitutional provisions of the GST council. In his delivery address, he remarked that the Goods

Services Tax (GST) is the biggest indirect tax reform in India which is going to be implemented from 01st of April 2017. The Constitution (One Hundred and Twenty-second Amendment) Bill, 2016, for introduction of Goods and Services Tax (GST) in the country, was accorded assent by the President Mr. Pranab Mukherjee on 8th September, 2016, and the same has been notified as the Constitution (One Hundred and First Amendment) Act, 2016. As per Article 279A (1) of the amended Constitution, the GST Council, a joint forum of the Centre and the States and therefore one of India's most powerful federal bodies, is constituted by the President to oversee and administer the goods and services tax with the persons on the following positions:

1. Union Finance Minister (Ex-officio Chairperson)
2. The Union Minister of State, in-charge of Revenue of finance (Member Ex-officio)
3. The Minister In-charge of finance or taxation or any other Minister nominated by each State Government (one of these to be Deputy Chairperson)
4. Some officials as non-votary permanent invitees

As per Article 279A (4), the Council will make recommendations to the Union and the States on important issues related to GST, such as the goods and services that may be subjected or exempted from GST, model GST Laws, principles that govern Place of Supply, threshold limits, GST rates including the floor rates with bands, special rates for raising additional resources during natural calamities/disasters, special provisions for certain States, etc. The Union Cabinet in its meeting held on 12th September, 2016 approved setting-up of GST Council and setting-up of its Secretariat. The Cabinet also decided to provide for adequate funds for meeting the recurring and non recurring expenses of the GST Council Secretariat, the entire cost for which shall be borne by the Central Government. The GST Council Secretariat shall be manned by officers taken on



deputation from both the Central and State Governments. On the decision of the Finance Minister Shri Arun Jaitley, the First Meeting of the GST Council was held on 22nd and 23rd September, 2016 in New Delhi. To ensure a democratic process in taking decisions, it is mandatory to meet the quorum requirement which is 50% of the total members. Similarly, every decision of the GST council needs to be taken with a 3/4th majority. While the central government's vote will have a 1/3rd weightage, the votes of all the state governments put together will have a 2/3rd weightage, thus making a near-consensus between the Centre and the States an imperative for any major decision. These provisions are meant to protect the federal character of the Indian Union. The discussion concluded with a thanks note by the moderator. The participants were informed about the future planning of "Thursday Mind-Meet" which is going to be a regular practice in the campus.

The panelists pondered over the following points:

1. The proposed GST regime is a tax reform which is one step ahead of VAT. It will reduce the collection cost of taxes.
2. The proposed tax regime is a destination-based tax, where the tax is to be paid at the destination of the goods and services that too on only the value addition. It is also meant to widen the tax net.
3. The GST involves the simplicity of tax payment along with the provision of tax credit to producers. There will be a uniform tax system across the country. It is therefore expected that the proposed regime will promote the ease of doing business in India.
4. Integrated technology system will ensure that there is a transparency and efficiency in tax collection.
5. There may be a short term inflation resulting into slight increase in prices, but in long run, it will attract the investors and promote competitiveness. The apprehension regarding the price increase may not be correct given the simplicity of proposed taxation.

6. The regime is supposed to reduce the waiting time at different points of tax collection in inter-state businesses. It will economize the cost of transportation.
7. There is an apprehension in the manufacturing or producer States that they will lose revenue due to the destination-based tax system. This apprehension does not seem to have sound basis given the provisions of taxation in GST. However, the Union Govt. has kept a cooling period of three years to meet the immediate loses, if any, of the States.
8. Interesting questions were raised on the above points, particularly on the issues whether the GST should be revenue-neutral or growth oriented and the items which are to be kept outside of the GST regime. The panelists responded and clarified to them.

Student Update

SMVDU Volleyball & Chess Team Competes in AIU North Zone

Vice Chancellor S.K Jain congratulated and wished the Volleyball and Chess team good luck for their matches in Association of Indian Universities (AIU) North zone. Volleyball team is going to Punjabi University, Patiala along with sports coach Sucha Singh. The team has won several competitions in the Inter and Intra University events. Volleyball Team will be headed by Siddhant Sharma(C) along with Dheeraj Sharma, Sahil Bhardwaj, Ashutosh Khajuria, Swapnil Kumar, Sahil Sharma, Saurabh Sawhney, Manuj Sharma, Vikram Rana, Vikas Kumar, Deepak Jha, Rushal Verma.

Chess team is going to Guru Jambheshwar University of Science and Technology, Hisar along with sports coach Sumit Sharma. The team comprises of national players with ratings more than 2100. Chess Team will be headed by Sameer Sengar(C), along with Pranav Sharma, Durgesh Satyam, Prayalankar Ashutosh, Abhishek Bundela, Shri Krishna Singh.

SMVDU Scholars present their research work at NGBT conference

Research Scholars of Human Genetics Research group of Shri Mata Vaishno Devi University, Katra: Indu Sharma and Varun Sharma presented their research work at an International conference organized by Scigenome Research Foundation (SGRF) at Cochin. Indu Sharma was awarded with scholarship by the SGRF for her research work. Over 1200 national and international researchers attended the conference over the theme "NextGen Genomics, Biology, Bioinformatics and Technologies".

The presented study " Exploring the whole mitogenome and understanding Human maternal lineages of Jammu and Kashmir, India" has been carried out under supervision of Dr. Swarkar Sharma and Dr. Ekta Rai. The



study has been funded by Human Genographic Project, National Geographic Society, USA. The study indicates that population of J&K is conglomeration of population present in Eurasia and Indian Subcontinent and the preliminary analysis indicates that migrations to the region, deep in time and recently through various invasions, were not exclusively male specific, contradictory to the much common hypothesis of peopling of India.

- I. Mr. Ram Krishan, Research Scholar & DST INSPIRE Fellow, Department of Mathematics, SMVD University, Katra, presented a paper titled, "A new product-type operator from a general space of holomorphic functions to Bloch-type spaces" in the Silver Jubilee Conference of the Jammu Mathematical Society and a National Seminar on Recent Developments in Complex Analysis, Operator theory and Related areas, during 20th -22nd October , 2016, in the Department of Mathematics, University of Jammu, Jammu.

2. Mr. Ram Krishan, Research Scholar & DST INSPIRE Fellow, Department of Mathematics, SMVD University, Katra attended the one day workshop on "Patent Drafting and Filing" organised by Department of Biotechnology, SMVDU, Katra during 20th October, 2016.
3. Ms. Sapana Sharma, Research Student, Department of Mathematics, SMVDU presented a research paper "Transient solution of two-heterogeneous servers queuing system with balking, renegeing and retention of renegeing customers" in the Silver Jubilee Conference of Jammu Mathematical Society and a National Seminar on "Recent developments in Complex Analysis, Operator Theory and Related Areas" at Department of Mathematics, University of Jammu during 20th -22nd October, 2016.
4. Ms. Sapana Sharma, Research Student, Department of Mathematics, SMVDU attended a workshop on "Patent Drafting and Filing" in association with TIFAC at Department of Biotechnology, SMVDU, Katra on 20th October, 2016.

Alumni Corner

Nishant Raman
(Pursuing MS in Productions and Logistics
Universität Duisburg Essen, Germany)

While in college I came across numerous articles on scientific advancements and cutting edge technology, especially in the field of mechanical engineering that Germany has developed in the past couple of centuries. Therefore I decided to Master's degree from a German University. I checked the general requirements and exams details that one require for an effective application to universities in Germany. Utilizing my free time in the SMVDU for the preparation of the required exams helped me fulfil the requirements well in time before application period set to start. I personally believe that starting well in time helped me managing things properly. Also the environment, I got in the SMVDU played a great role in shaping my personality as the academic structure allowed enough time for both work and fun. The last semester offers flexible internship opportunities and a chance to evaluate one's readiness to face the 'real' working world.

My message to the juniors is that they should keep themselves well informed and proceed further in their careers depending upon the interest and capabilities. Try to set goals, both short and long term, and stick to a plan: This will make the most of your stay at SMVDU.

