

## Workshop on Novel Materials (29 &30 January 2020)

On the prosperous occasion of Basant Panchami two-day workshop on novel materials and medical imaging phosphors materials was inaugurated in physics Department of Govt.VYTPG. Autonomous College, Durg on 29 January 2020. The chief Guest Dr. Dirk Poelman, Professor Ghent University, Belgium and Vice principal Dr. M.A. Siddiqui, workshop Convener Dr. Purna Bose, Workshop coordinator Dr. Jagjeet Kaur Saluja offered flowers to the goddess of knowledge intellect and education Maa Saraswati . Saraswati Vandana have been presented by M.Sc second semester students Bhavana, Bharti, Ojaswi and Aanchal while welcome song have been presented by Aditi Singh , Vedika Rani and mukti Verma. Workshop coordinator Dr. Jagjeet Kaur Saluja gave details of two day workshop and said that this workshop on Novel materials and medical imaging Phosphors is an excellent platform for students, research scholars and scientist for having a discussion on research topics which can give a right direction do students who wishes to collaborate with research. She said Physics gives the direction to rest of Science and it affects every sphere of society. Without physics we cannot imagine the wider multidimensional picture of the world.Scientists use different particles in mobile phones and television, due to the contribution of material science and Nano particles.She said change is the law of nature. We humans need to accept this rule and progress according to time.



Dr. Purna Bose said in her lecture that some special particles were selected for the workshop. She also said that research in science should uplift the



lifestyle of human life which proves its integrity. She introduced several particles and its characteristics and also explained the importance of material Science. Professor from Belgium Dr. Dirk Poelman explained high intensity phosphor by particles and explained its importance and uses. He also explained how to get high intensity light through presentation. He explained blue and white light emitting diodes, importance of phosphor material in economical white lights source and Mn Base Phosphor materials.

BIT Raipur assistant professor Dr. Vikas Dubey explained the importance of luminescence materials in the field of medical and explained its importance in detail. He also explained his current research field and subject. He also told students that we should come out of our comfort zone and should think like quantum particles and should think how we can teach society the importance of research. The two day workshop has been conducted by M.Sc. final year student Pratiksha Tiwari. M.Sc. final student Laxmi Prasad Mishra explained the importance of Arduino IDE programming its characteristics and working. M.Sc. final student Pratiksha Tiwari explained the theories, existence and future discoveries of dark matter and dark energy. M.Sc. Previous student Samta Salecha explained the duality of light. M.Sc. previous student explained

the exoplanets and its existence to presentation. On this Occasion, head of department Dr. Purna Bose, Dr. Jagjeet Kaur Saluja, Dr. Anita Shukla, Mrs. Sitieshwari Chandrakar and Dr. Abhishek Misra including research scholars and students in large numbers from different colleges were present. On this occasion winners from B.Sc. objective based competitive exam were given prizes for securing position with certificates. Nitish and Narayani got first prize, lucky got second prize, Khooshboo Sahu got third prize, Anand Kushwaha got fourth prize and Radhika Dewangan , Hemin and Gautum Singh together got fifth prize .



Principal Dr. R.N.Singh said that through this program scientific thinking gets the developed within students which inspires them to move forward in life. He also said that once you choose your target, start working on it with all your passion and determination, don't stop until you reach your goal it enhances is yourself confidence. He gave blessings and good wishes to students and professors for the future and for Basant Panchami.

On the second day of work shop Dr. Ravi Shrivastava ICFAI University explained the importance of luminescence and it's used in our life. He also explained the process of making of white LED. Shri Amit Kumar Tamrakar Assistant Professor St. Thomas College explained the telescope and its characteristics. He explained both types of telescope terrestrial and astronomical. He gave elaborate knowledge of telescopes developed in India and outside. Dr. Swagata Bera gave elaborate description on Cyber crime

robotics and artificial technology as well as its working. She also explained transformer domain.



In the second session Dr. M.D. Marta Professor from Poland University gave her lecture on Anodization and explained its importance. Professors and students asked several questions to her while giving answers she stated their differences between Indian education system and Poland education system. She explained that in Poland has no policy like permanent employment. Every teacher gets employment according to their academy performance. Any degradation in the academic performance may cost their jobs, and because of that every teacher in Poland is conscious and responsible about the work. She also expressed her happiness towards the question asked by Indian students and professors of physics department. She had elaborate discussion on research project and education system and environment.



Principal Dr. R.N. Singh while appreciating physics department for workshop said that in the presence of professors from Poland and Belgium have enhanced the energy in all students. All students including from other colleges appreciated the behavior, simplicity and responsibilities towards their work of professors from Poland and Belgium. Workshop coordinator Dr. Jagjeet Kaur Saluja and workshop convener and head of Department Dr. Purna Bose said that the focus of the workshop was encouraging students towards research and giving them proper guideline so that they choose their part and bring Laurel to the country and to themselves. On this occasion, B.Sc. students were given away prizes for securing position in objective based question competition in which Bharat Sahu got first prize, Kushal Salecha got second prize, Kamal Narayan got third prize, Chandra pal dhankar got fourth prize and Nilesh, Sejal Verma and Ayush Verma together got fifth prize. Two days national workshop has been conducted by M.Sc. final student Pratiksha Tiwari. On this workshop Dr. Purna Bose, Dr. Jagjeet Kaur Saluja, Dr. Anita Shukla, Mrs. Sitieshwari Chandrakar, Dr. Abhishek Misra, Dr. Prashant Shrivastava, Sachin Mishra including all research scholars and students were present with large number of students. Total 150 participants were present in this workshop.



## बेल्जियम के प्रोफेसर ने आंख की सुग्राहिता को ग्राफ से समझाया

साइंस कॉलेज में दो दिवसीय सेमिनार

वैचारिक सोच के साथ बढ़ें आगे

पत्रिका PLUS रिपोर्टर

भिलाई • साइंस कॉलेज दुर्ग के भौतिकी विभाग में बुधवार को दो दिवसीय राष्ट्रीय कार्यशाला का शुभारंभ हुआ। बसंत पंचमी के शुभ अवसर पर मुख्य अतिथि डॉ. डर्क पॉलमैन, प्राध्यापक ग्रेट विश्वविद्यालय, बेल्जियम, प्रभारी प्राचार्य डॉ. एमए सिद्दीकी, कार्यशाला संयोजक डॉ. पूर्णा बोस, सचिव डॉ. जगजीत कौर सलूजा मौजूद रही। डॉ. कौर ने कहा, भौतिकी आधुनिक विज्ञान को दिशा निर्देश देती है और यह समाज के हर क्षेत्र को प्रभावित करती है। इसके बिना हम बहुआयामी चित्र की कल्पना भी नहीं कर सकते। हम मोबाइल टेलीविजन में अद्भुत पदार्थ का प्रयोग करते हैं, उन सबमें मटेरियल साइंस एवं नैनो पदार्थ का योगदान है। उन्होंने कहा बदलाव प्रकृति का नियम है।

बेल्जियम के डॉ. डर्क पॉलमैन ने उच्च तरंगदैर्घ्य फास्फर पदार्थों और उनकी उपयोगिता के बारे में बताया। उन्होंने आंख की सुग्राहिता को ग्राफ से समझाया। बीआईटी रायपुर से आए डॉ. विकास दुबे ने लुमिनिसेंस पदार्थों का चिकित्सा के क्षेत्र में योगदान को विस्तार पूर्वक समझाया। उन्होंने इस क्षेत्र से जुड़ी नवीनतम शोध का उल्लेख किया। एमएससी प्रथम से आकर्षित ने अल्ट्रा सोलर प्रसे के बारे में बताया। प्राचार्य डॉ. आरएन सिंह ने कहा कि इस कार्यक्रम से वैज्ञानिक सोच के साथ विद्यार्थियों को आगे बढ़ने की प्रेरणा मिलती है। उन्होंने कहा कि एक बार लक्ष्य निर्धारित करें एवं दृढ़ इच्छा शक्ति से कार्य को शुरू करें एवं उसे पूर्ण करके ही रुकना चाहिए, इससे आत्मविश्वास बढ़ता है।

## साइंस कालेज में पोलैण्ड एवं बेल्जियम के प्राध्यापकों के व्याख्यान से विद्यार्थी प्रभावित

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दुर्ग। शासकीय विश्वनाथ यादव तामस्कर स्नातकोत्तर स्वशासी महाविद्यालय में भौतिकी विभाग द्वारा आयोजित दो दिवसीय राष्ट्रीय वर्कशाप में आमंत्रित वक्ता के रूप में बेल्जियम के प्रोफेसर डॉ. डर्क पॉलमैन, प्राध्यापक घेंट विश्वविद्यालय तथा पोलैण्ड की डॉ. एम.डी. मारटा के आमंत्रित व्याख्यान से साइंस कालेज, दुर्ग एवं आसपास के महाविद्यालयों के स्नातकोत्तर विद्यार्थी अत्यंत प्रभावित हुए। महाविद्यालय के प्राचार्य डॉ. आर.एन. सिंह तथा कार्यशाला