Sevadal Mahila Mahavidyalaya

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REPORT

FACULTY EXCHANGE PROGRAM

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Science and technology play a significant role in the present and future world society, and are of great importance to the development of the country's economic, society, and industry. They are a tool to raiseup the standards of people's well-being. Theknowledge in science and technology helps to increase the competitiveness of the country as well. Nowadays as the science and technology are changing widely and rapidly, the key factor of the education for human development is to strengthen the scientific and technology knowledge of the people. This is to enhance the Human resource, who will be the driving force in economic and country development, to obtain skills and knowledge, learning ability, critical thinking, and creative ideas.

To encourage the new generation to be a driving force in country changing with Science and Technology is very importance and urgently needed to level up the country's economic competitiveness. At present, the government has promoted and created opportunities for science and technology education from basic education level to higher education levels to accommodate changes and produce qualified manpower for research and development of innovations to support economic growth.

Faculty exchangeare mutual, inter-institutional agreements in which the expertise and services of one institute's faculty members are exchanged with the other. A faculty exchange will promote international teaching and research collaboration to the faculties of both institutions.

The benefit of such an exchange program is that faculty gets exposure to different cultures, study environment which is very important in this era of globalization.MOU has been signed between Sevadal Mahila Mahavidyalaya, Nagpur University, Nagpur and Thaksin University, Phatthalung, Thailand. In view of this faculty exchange program, following activity was carried out.

An interaction programme of the faculty members of the College and students,with renowned foreign delegates and scientists, was arranged on 11th July 2017. Our esteemed guests for this scientific interaction were Dr. Janchai Yingprayoon, Deputy Director, International College, Suan SunandhaRajabhat University in Bangkok, Thailand; Dr. PanmanasSirisomboon, Senior Professor, Agricultural Engineering Program of the Mechanical Engineering Department at King Mongkut's Institute of Technology, Ladkrabang, Bangkok, Thailand and Dr. Nimal Kumar Adikaram, Professor and Head Department of Botany, University of Peadeniya, Peradenia, Srilanka. The interaction programme began with floral welcome of the Hon'ble guests followed by welcome address by Hon'ble Principal Prof. Pravin Charde, Principal Sevadal Mahila Mahavidyalaya .Hon'ble President of Sevadal Education Society Shri. Sanjayji Shende presided over the function.

Dr. PanmanasSirisomboon, Senior Professor, Agricultural Engineering Program of the Mechanical Engineering Department, threw light on how Near-Infra red Spectroscopic technique can be used to determine the quality parameters of food and agricultural products, food texture and maturity, determination of sweetness and lycopene content in fruits,

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moldsresponsible for food spoilage and mycotoxins in agricultural products and advanced chemo-metrics for NIRS data analysis.

Dr. Nimal Kumar Adikaram, Professor and Head Department of Botany, University of Peadeniya, who is also the visiting Research Professor, National Institute of Fundamental Studies, Kandy has done extensive research in the field of agriculture on different antifungal compounds isolated from fruits etc. and their antifungal activity, bio control agents, biological activity of different plant phyto-chemicals. He shared his knowledge about all such bio-control agents with us.

Dr. Janchai Yingprayoon, Deputy Director, International College, Suan SunandhaRajabhat University in Bangkok, Thailand also interacted with the staff members and students of the college wherein he emphasized that a practical way of learning plays an important role in qualitative research understanding. He displayed an array of simple yet innovative experiments which were very interesting. He shared different tips and ideas and indeed short exhibits to make students understand Physics and Mathematics in a simple manner and make the subjects interesting, that would definitely help in developing scientific temperament and attitude in students. The simple hands-on activities performed in class rooms would definitely be an excellent way to develop an interest of students in the subject and that too in an effortless manner was the strong belief of Dr. Janchai, which he shared with us. He stressed on and suggested creative thinking and practical learning techniques be given more importance to improve the teaching and understanding science.

After his interesting and innovative experimental display and lecture he answered the questions put forward in great detail.

Principal, Prof. Pravin Charde, Dr. Janchai Yingprayoon, President, Shri. Sanjay Shende, Sevadal Education Society, Dr. PanmanasSirisomboon, Dr. Nimal Kumar on the dias

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Dr. Janchai Yingprayoon, guiding faculty and students

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College visit

Performing Activity

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After the Presidential address by the Hon'ble President of Sevadal Education Society Shri. Sanjayji Shende, the programme ended with vote of thanks.

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Institutional Participation in Faculty Exchange at ThaksinUniversity Thailand:

In August 2022 faculties of Sevadal Mahila Mahavidyalaya, Dr. Mrs. Anjali S. Mahakalkar, Prof and Head, Department of Chemistry, Dr. Mrs.Arati M. Duragkar, Associate Prof. Department of Chemistry and Dr. Mrs. Pratiksha P. Morey , Assistant Prof. Department of Chemistry, Nagpur visited Phangnga University , Thailnd.

Dr. Mrs. Anjali Mahakalkar focused on several treatment techniques and approaches which need to be developed and applied in making sure that effluents are properly treated before being discharged into the environment or treated before use contaminated water for drinking or domestic use purpose. Effective Low cost green materials can be prepared for the removal of contaminants using waste materials such as orange peels, coconut shells, Saw dust etc.

Dr. Mrs. Arati Duragkar discussed about various phenomenon of luminescence, different types of luminescence and the methods to synthesize inorganic phosphors from inorganic minerals. Role of rare earth elements to synthesize the phosphor which can be further used as LED phosphor and some phosphors can be used as radiation dosimeter. The LED's prepared by using these phosphors are low cost, ecofriendly and long lasting.

Dr. Mrs. Pratiksha Morey guided the students on how to prepare liquid bio-ferilizers from bio-waste like orange peels, lemon peels, rose petals etc. The prepared liquid biofertilizers are easy to use and are helpful to increase soil fertility. These biofertilizers can alsobe used as pesticides and nutrient suppliers to improve the quality of the soil.

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Dr. Mrs. Anjali Mahakalkar guiding the students

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Dr. Mrs.Arati Duragkar in conversation

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Audience at lecture

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