

**A Report on the Workshop  
“Industry, Institute, Innovation and Interaction (i4)”  
at Bapuji Institute of Engineering and Technology,  
Davangere, on 11<sup>th</sup> October 2017**

A one day workshop was conducted at Bapuji Institute of Engineering and Technology (BIET), Davangere on 11<sup>th</sup> October 2017 on Industry, Institute, Innovation and Interaction (i4).

The main objective of the workshop was to bring together both academia and Industries on the same platform to share their views, expertise and success stories.

The Inaugural function was inaugurated by Sri. B. K. Manjunath Swamy, Deputy Director, District Industries Centre, Davangere. The Chief Guests were Prof. S. Ramagopal, Indian Institute of Science, Bangalore, and Prof. Y. Vrushabhendrappa, Director, BIET.



Dr. Subrahmanya Swamy, Principal, BIET and Dr. S. G. Sreekanteswara Swamy, Executive Secretary, KSCST were also present at the inauguration and shared their views and experience on Student Project Programme (SPP) and prototypes that have been further developed for commercialisation. They also mentioned a few success stories such as Surakshit Document Laminator Machine, Two Stage Direct Drive Vacuum Pump, Direct Cottage Silk Reeling machine, Improvised sizing machine, etc., and the funds provided by Karnataka State Council for Science and Technology under Student Project Programme.

The participants were from the following institutions and industries:

<b>Sl. No.</b>	<b>Name of the Institution</b>	<b>No. of Delegates</b>
1	Bapuji Institute of Engineering Technology, Davangere	45
2	University BDT College of Engineering, Davangere	5
3	Jain Institute of Technology, Davangere	7
4	STJ Institute of Technology, Ranebennuru	10
5	S. J. Institute of Technology, Chitradurga	2
6	University of Agricultural Sciences, Dharwad	3
7	PES Institute of Tech., and Management, Shivamogga	1
8	G.M. Institute of Technology, Davangere	3
9	Government Engineering College, Haveri	2
10	Textile Industry from Davangere	1
	<b>Total</b>	<b>80</b>

Delegates from the Mechanical, Chemical, Textiles, Civil, Electrical and Electronics, Computer Science, Biotechnology, MCA and Agriculture were present from the above Institutions. A total of hundred participants were benefited from the workshop.

The Student Project Program of KSCST was the motivation to organise this workshop. During the 40<sup>th</sup> Series of Student Project Programme State level Seminar and Exhibition of Student Projects held at NMAM Institute of Technology, Nitte, Karkala Taluk, Nitte during 11 – 12<sup>th</sup> August 2017, it was decided to shortlist and select innovative projects to take them forward with a view to commercialise the product or process. Some of the project has also been advised to go in for IP protection.

The write up and photos of the selected projects to take forward were shown and discussed with the participants.

The 1<sup>st</sup> Technical Session was delivered by Sri. B. K. Manjunath Swamy, Deputy Director, District Industries Centre, Davangere on Facilities for Industries.

Mr. Manjunath mentioned about the incentives and concessions, subsidies schemes from the Government. He mentioned that business incubators, Rainwater Harvesting schemes, Energy conservation, concept industries can be benefited by the subsidy schemes from the Government of Karnataka. Recycling of electronic wastes and plastics wastes were given more prominence. He mentioned that schemes such as CMEGP, MUDRA, Chief Minister Employment Generation Scheme, Micro and Small Enterprises and Stand-Up India scheme were encouraged by the Government.



Sri. Manjunath Swamy, Deputy Director, District Industries Centre,  
Davanagere

The 2<sup>nd</sup> Technical Session was delivered by Ms. Brinda Varama, Patent Attorney, Aekam Legal Abode, Bangalore.

Ms. Brinda Varma, Started the session with slides on how to protect Intellectual Property (IP). She gave examples on protecting Intellectual Property Rights (IPR) and also mentioned different types of IPR that come across in our daily life such as Patent, Copyright, Design, Trade Secrets etc. Ms. Brinda later explained the Ecosystem in the Start-up business and

different types of business such as Proprietorship, Partnership, Private Ltd., Companies etc. The legal aspects in setting-up business and few benefits from the Government for Start ups were also mentioned.



Ms. Brinda Varma, Patent Attorney

The 3<sup>rd</sup> Session was delivered by Prof. Y. Vrushabhendrappa, Director, Bapuji Institute of Engineering and Technology, Davangere.

In this session Prof. Y. Vrushabhendrappa, shared his views and few success stories on the Student Project Programme (SPP) projects and bringing them forward. He narrated his association with KSCST since the beginning of the SPP program. He quoted few success stories, examples such as Lamination machine, Sunflower harvester, optical weighing machine, Spiral binding machine, Tabulation software, gas booking through mobile, Production of activated Carbon from Coconut Shell.

He also mentioned the other projects that were successful through SPP program was, Sizing machine, Silk reeling machine, Glass cutting using hot air jet, Dyeing machine, Bio Methane plant and Vermi Composting.



Prof. Y. Vrushabhendrappa, Director, Bapuji Institute of Engineering and Technology, Davangere



Dr. S. Subramanya Swamy, Principal, Bapuji Institute of Engineering and Technology, Davanagere

The 4<sup>th</sup> Session was delivered by Mr. Lokesh V., Managing Director of Innomantra Consulting Pvt., Ltd. In this session Mr. Lokesh talked on Funding of Start-ups and Policies in Karnataka. He discussed about the schemes funded by the Government and also the services provided by Innomantra Consulting for Start-ups and Policies.



Mr. Lokesh V., Intellectual Property Consultant

The 5<sup>th</sup> Session was delivered by Dr. S. G. Sreekantewara Swamy, Executive Secretary, KSCST.

In this session Dr. S. G. S. Swamy, briefed the participants about the Student Project Programme which is the most successful program and flagship programme of KSCST. He thanked Prof. Y. Vrushabhendrapa's involvement in the program for so many years and his efforts to commercialize the innovative projects in the SPP program. He mentioned few successful project such as Surakshit document laminator, Direct drive Vacuum pump, Improved sizing machine, Silk Reeling Machine, Glass cutting using hot air Jet.

Dr. Swamy also mentioned that, the Patent Information Centre at KSCST has been involved to identify novel projects to protect their IP and help the students and guides to file patents or register for Copyrights, Design ,etc.

Dr. Swamy also briefed about the Karnataka Israel R&D Program so that industries interested in the program can apply for the financial funding from the Government of Karnataka. There was only one delegate from the Textile Industry sector.



Dr. S. G. Sreekanteswara Swamy, Executive Secretary, KSCST

One success story from University of Agricultural Sciences, Dharwad was shared by Dr. Rajesh Patil, Principal Scientist and Ms. Sheela T. They briefed the delegates the advantages of Colour Cotton. The need for colour cotton was highlighted as organic cultivation, there was no use of synthetic dyes, premium pricing possible and there is niche market in export. The colours available were Dark brown, Cream and Green. The colours are due to flavonoids. They also mentioned a few disadvantages of White cotton.

The workshop ended with a Vote of thanks by Prof. S. N. Ramesh, Program Coordinator, Department of Textiles, BIET, Davangere.



A view of participants at the workshop