

# **Devi Ahilya Vishwavidyalaya**

**Report on activities undertaken under the aegis of**

## **University Industry Partnership Cell**

**Prof. Sanjeev Tokekar, Coordinator**

**Prof. Shashi Prakash, Co-Cordinator**

**2014-19**

## **Following activities were undertaken during 2014-19**

1. Under the aegis of University Industry partnership Cell, an Entrepreneurship awareness Camp was organised at IET-DAVV for fostering the spirit of entrepreneurship among the students. Resource persons from industry and academia interacted with the students and detailed the the naunces of the field to the budding entrepreneurs. About 100 students participated in the event organised during 29-31 Jan 2019.



Fig 1: A Lecture by the external expert to the participants of the Camp



Fig. 2: Visit of the participants to the Industry (Colour Graphics Rajendra Nagar, Indore, Madhya Pradesh)

2. A Department of Science & Technology sponsored three day entrepreneurship awareness camp was organized from 21-24 Feb 2019 for creating awareness in students of the University. On the first day, objectives of the camp and general concepts about entrepreneurship were discussed with the participants. General concept about the Govt. formalities, rules & regulation, location, and different aspect of an industrial venture regarding setting up of small scale industries (SSI) were highlighted. Technical, financial & commercial aspects of SSI unit (General concept only) were also dealt with in subsequent days. Rules regarding the support and financial assistance from Govt. agencies, banks, financial institutions, SFCs and others-securities demanded by FIs/banks etc. were also underlined. Also, behavioural scientist's approach towards the creativity and business, were discussed. In total 79 students participated in the event. The faculty was drawn from academia and practicing entrepreneurs.



Fig-3: Group cum class room photo of the participants and teachers.

3. A memorandum of Understanding (MoU) was signed between the Institute of Engineering & Technology, and ScienTech Technologies Pvt. Ltd. on 22nd Jan 2019, in order to establish a framework for initiating innovative solutions and research in the area of communication, instrumentation and IoT. The two institutions shall be working for strengthening the research and development in the relevant areas, expose students to the emerging technologies by imparting industrial training, thereby assist in creation of a large reservoir of qualified manpower in the functional areas electronics, communication, instrumentation and IoT.



Fig.4: Photograph of group of students during the industry visit to ScienTech Technologies Ltd., Indore

4. A one day workshop on “Freshman Orientation program” was organized by University-Industry Partnership Cell, Devi Ahilya Vishwavidyalaya in association with Entrepreneurship Cell, IET-DAVVV on 01-10-2018. On this occasion a young entrepreneur, Mr. Sidharth Rajhans, Founder Director, Spacify Inc. delivered an expert lecture on ‘Entrepreneurship: from Ideation to Execution’. He addressed students about various aspects of startups, entrepreneurship and government schemes. The student also gained useful information on new technologies, market requirements and entrepreneurship challenges. Faculties, and more than 300 students participated in the workshop. A brief presentation by IET students on 7 different innovative startups originated at IET-DAVV were also presented. The program was presided over by Prof, Sanjeev Tokekar, Director IET, co-coordinated by Prof Shashi Prakash and organised by Dr.Suvarna Torgal.



Fig. 5: Mr. Sidharth Rajhans, Founder Director, Spacify Inc. delivering an expert lecture on ‘Entrepreneurship: from Ideation to Execution’

5. University Industry Partnership cell of Devi Ahilya University Indore conducted Expert lecture and interactive session on "SPHERICAL CAMERA SYSTEM & 360 VIDEO CAPTURE" on 10th July, 2018 at Institute of Engineering and Technology, Devi Ahilya University, Indore. Mr Sandeep Doshi Alumni of SGSITS and presently working with Apple San Francisco, USA delivered the talk on how the technology changes in Video capturing and camera system for upcoming areas like Facebook live 360, Instagram 360 livemedia, Youtube VR, driver less cars, etc. capturing video for 360 degree and process video for current decision is an important technology for driverless cars/ transport system. This technology is also important for VR and for gaming. After the invited talk expert interact with the students and give the suggestion for upcoming research possibilities in this area to the students. The inaugural session was addressed Dr Vrinda Tokekar acting Director IET and vote of thanks was proposed by co-Coordinator of University Industry Partnership Cell of DAVV Dr. Shashi Prakash. The faculty member of various Institutes in and around Indore like IIT, Indore, SVITS, etc and the faculty member of various departments of IET attended the expert talk. The Expert lecture and interactive session was also attended by more than 110 students of BE, M.E., and PhD scholar.

All in all, the event went off very well, and was well appreciated by one and all.



Fig. 5: Mr Sandeep Doshi, Apple San Francisco, USA delivered the talk on how the technology changes in Video capturing and camera system

6. There have been visits of the faculty members to various industries in and around Indore seeking their participation in activities of the Cell, and looking for opportunities of developmental projects. Some of the visits had been (i) M/s Techforce Composites Pvt. Ltd., Indore on 8th Oct. 2017 (ii) Systango Ltd., Information Technology Park, Indore on 9th October 2017, (iii) M/s Lightguide Optics, Polo ground, Indore on Jan 16, 2018 (iv) Indore Biotech Inputs and Research Pvt. Ltd., Indore or consultation seeking consultancy projects. Efforts were also made to initiate collaborate and undertake projects of importance to industries/agriculture units. Regarding this we presented our capabilities at Indian Institute of Soybean research, and involved them along with IIT, Indore for taking joint projects. Collaborating with these institutions we could secure funds of about 30:00 Lakhs from Department of Science & Technology, for the project entitled "Development of Laser Biospeckle Technique for Applications in Agriculture".
7. A student Competition named "Innovation and Entrepreneurship Challenge-2018 (IeC)" organised on 19th Feb. 2018 by UPIC, wherein innovative business plans were invited from the students, the best plans were awarded. About 350 students comprising of 93 teams from different departments of the University competed. The following Industries partnered in the initiative: Bengal Energy, TCS Ltd, Swan Finance Indore, Systango Ltd, Cognizant Solutions Ltd., World pay.
8. Workshop on Internet of Things and Its Application was conducted on 13th October, 2017 at Institute of Engineering and Technology, Devi Ahilya University, Indore under the umbrella of University Industry Partnership Cell of DAVV. Scientech Technologies Pvt. Ltd, Indore was the Industry partner of this event. The event comprised two technical sessions: first 'an Introductory Talk on IoT and Its Applications' by Mr. Krenal Chouhan, Head R & D, Scientech Technologies Pvt. Ltd, Indore delved on the basics, and another 'Hands on training session on IoT products' by Mr. Rajeev Karothia, Asstt. Head, R & D, also from Scientech Technologies Pvt. Ltd, Indore elaborated on the practical aspects. The practical sessions dealt with the experiments developed and design by Scientech Technologies Pvt. Ltd, Indore, in the area. The inaugural section was addressed by Honorable Vic-Chancellor Dr Anil Kumar and Dr Sanjiv Tokekar, Coordinator of University Industry Partnership Cell of DAVV and Director IET-DAVV, Indore. Mr Manish Joshi, Sr. Manager, Scientech Technologies Pvt. Ltd,

highlighted the salient features of this upcoming technology, and talked about the innovative IoT based products being developed by Scientech Technologies Pvt. Ltd, Indore. Dr Shashi Prakash Co-coordinator of University Industry Partnership Cell of DAVV payed the vote of thanks.

The faculty member of various Institutes in and around Indore like SGSITS, SVITS, etc and the faculty member of various departments of IET attended the workshop. The workshop was also attended by more than 200 students of BE, M.E., and PhD scholar. The students asked probing questions and interactive session was the highlight of the event; also students rigorously sought answers to the practical design problems they are facing while doing projects in the area. The talk/interaction gradually built up towards the point that IoT being an upcoming technology, requires more efforts from the students, teachers and all other stake-holders.

9. On 8th and 9th Feb 2017, a two day Industry Institution meet SAMANJASYA 2017 was organized by Institute of Engineering and Technology. The meet was successful in making association between Institute and Industries. Representatives from industries, which are leaders in their domain, along with representatives from nearby reputed Academia like IIT Indore, SGSITS, IIM , Mediacaps and other government and private institute was presents in meet. The invited companies were Wipro technology, Adobe, CSC, Intel, Edusaksham, TCS, Eicher-Volvo, Tata Motors, Cognizant, Technido, Scientech, Rack Bank, Infobeans MPCOST etc.

On the two days there were various sessions on topics

- (i) Skill Development in Indian Perceptive - delivered by Mrs Garima Babbar (Head Strategic Alliances , education and skill development, Adobe) and Mr Animesh Rathode (Technical Architect and people manager, CSC, Indore). The experts laid emphasis on better industry academia partnership, modern labs, capacity building of faculty, more practical based learning and curriculum reforms for enhancement of student's skills. The experts gave an inside view of Business process management, IT services, Social mobility Analytic Cloud, Hadoop, Amazon web services, Agile and other hot technology of today software world.
- (ii) Electronics Industries in India- The session speakers were Ms Alka Jaiswal (Intel) and Mr Punit Mittal (Head Product and Technology, Edusaksham). The experts introduced latest technology driving electronics industry. According to



them IOT, Cloud Computing, 5G, Artificial Intelligence, Internet of Things are among few technologies on which Institute and students must focus for betterment of future

- (iii) Digital India Movement: Scope and opportunities) -The first generation cofounder of INFOBEANS Mr Avinash Sethiya, along with and Mr Sidhart Dev (Founder and Technical Head, Technido ) was invited speakers for this session. The experts exhorted the students to grab the knowledge from various resources available on Internet. They discussed about digital India movement and various opportunities, for industries academia and students, generated due to this initiative of Govt Of India.

Besides the above activities there were panel discussions in which Industrial representative from Eicher- Volvo, Tata Motors, Cognizant, RackBank, RRCAT, MPCOST, Scintech Ltd, Technido, Edusaksham. MCTE Mhow, TCS, Tata Motors, IIM Indore, Eicher- Volvo, Tata Motors, Cognizant, RackBank, RRCAT, MPCOST and academia representatives from IIT, IIM indore were also present and had discussion on various topics.

10. School of Chemical Sciences and University- Industry Partnership Cell in association with Labindia Analytical Instruments Pvt. Ltd., Thane (Maharashtra) and PG Tech Research Institute, Indore (M.P.) organized a one day workshop on August 2, 2017. The focal theme of this workshop was 'Instrumental Techniques in Chemical Sciences'. The program was presided over by the Hon'ble Vice Chancellor Dr. N.K. Dhakad. On this occasion a Memorandum of Understanding (MoU) was signed between School of Chemical Sciences and PG Tech Research Institute, Indore. The PG Tech Research Institute, Indore (M.P.) was represented by its Director Shri Ashish Tiwari, and Labindia Analytical Instruments Pvt. Ltd., Thane (Maharashtra) by its General Manager, Shri Bharat Phatak. The students were provided practical hands on training on microwave synthesizer by Mr. Nitin Kulkarni and Shri Deepak Sharma.



Fig. 6: Inauguration of workshop ‘Instrumental Techniques in Chemical Sciences’ by Hon’ble Vice Chancellor, Devi Ahilya Vishwavidyalaya

11 . International Institute of Professional Studies, Devi Ahilya Vishwavidyalaya, organized a two days interaction event between industries and the institute ‘Industry – Academia Meet 2017’. The meet aimed to bridge the gap between the industries and the institutes. It pivoted on a very pertinent theme “Minimizing the Gap between Academia and Industry”. Experts from various industries shared their knowledge and experiences and suggested ways to increase the employability of the students.

The experts covered the following points from their industry experience during their speech:

- Current trends of the industry.
- Expectations of Industries from Professional educational system.
- Industry demand/expectation from the students.
- Skills necessary to meet the present market requirements.

Eminent speakers from various industries enlightened audience with their ingenious ideas about enhancing student’s employability and Minimizing the Gap between Academia and Industry. The experts for the meet were following:

Sr. No.	Expert Name	Designation	Organization
1.	Mr. Sanjay Kumar Gupta	Director	Spectrum Consultant India Pvt. Ltd.
2.	Ms. Hima Kulshrestha	HR Manager	Systango Ltd.

3.	Mr. Prafull Dhar	HR Manager	Flexituff International Limited
4.	Mr. Abhijeet Singh Bais	Solution Architect	Infosys
5.	Mr. Siddharth Bajpai	Owner, Consultant & Trainer	Mind Synergies
6.	Mr. Sawan Laddha	Director	Splash India Pvt. Ltd.
7.	Mr. Mukesh K. Tiwari	DGM	Mahindra Two-Wheelers Limited
8.	Mr. Rohit Bindal	Director	Purple focus
9.	Mr. Anant Aggrawal	Regional Head	ICICI Securities Ltd.
10.	Mr. Hemendra Jadoun	Owner	Overseas Travels

The purpose of the meet was to re-orient the teaching pedagogy and program of study. These interactions and knowledge sharing helped the students to be industry ready and also enhanced the quality of teaching and research in the academia.

12. A two day Industrial Conference named ‘Corporate Conclave-An Industry Institute Meet’ was held at School of Commerce on 23rd & 24th March 2017. The Corporate Conclave was conducted to develop strong industry linkages. Dr . Shailendra Mishra was the convenor and Dr. Kratika Neema was the co-convenor of the industrial conference. The other organising committee members of the industrial conference was Mr. Nilesh Sainy, Dr.Bhoomi Sitlani, Dr,Rajshree Desai and Mrs. Anita Mishra. The Objectives of the conclave were

- (i) To develop strong industry institute relationship which will benefit students in seeking their career objectives.
- (ii) To Understand the students skills set required by today’s industry so that in future the curriculum is redesign and right skills set is imparted among the youth of today.
- (iii) To develop the practical field base industrial knowledge among the students.

The details of the five companies which were visited by the students and faculty members:

1. Metal Profiles
2. Indore Tools Limited

3. ICD Dhannad
4. Prathiba Syntex
5. Safe Xpress



Fig.7 : A visit of the students to M/s Metal Profiles

- 13 . The School of Economics organized Industry - Academia Meet on 25th March 2017 to explore the scope of industry –academia linkages with the Devi Ahilya University. The main philosophy for this curtain raiser event was to show how the University is going to mould the students to make them ready for their first step in the corporate world apart from their regular academic degrees along with the aim to promote interaction between the industry and academics. This meet has tried to become an excellent platform for both Industry and Academia to share views, infrastructure, research expertise, and interact on unexplored avenues for working together. The meet was coordinated by Dr Rekha Acharya under the XII Plan grant provided to the department by the Industry-Academia Cell of the University.

The Meet was particularly divided in three interfaces: (i) Academic Presentations and their expectations from the Industries. (ii) Industries interfaces: their expectations and thinking towards academic programme's, and (iii) An Open Session, where students – Industry interaction took place. The outcomes of this meet were overwhelming for both academia and industry, because they both realized that much of the information shared

on this platform were unknown and unnoticed by the industry. However lots of suggestions were emerged during discussions. They are as under:

The following industrial experts, Mr Jagdish Verma, Director ilead and ex chairman of IMA, Mr. Rajesh Acharya, MD, CEO, Dual end technologies trading, Mr. Girijanandan Sharma, MD, Magadh Precision Engineering Equipment Ltd. and vice president of Malwa Chamber of commerce, Mr. Deepak Bhandari, Vice President, Laghu Udyog Nigam, Mr. Jethanand Ramami, Ex. President, Madhya Pradesh Association of Industries, Mr. Tejpal Saluja, Head, Swan Finance, Mr. Manohar Katoch, Vice President, Cleartax, Mr. Maurya, Fund Manager, Fin. Corp, Mr Divyadutt Kothari, Industrial Trainer and student Counselor, Indore Indira College of Institution and others etc. expressed their views on Inter-linkages between industry and academia.

14. School of Life Science and School of Pharmacy undertook the following programs

- (i) Two days Workshop on “Molecular Biology Experiments” on 07<sup>th</sup> and 8<sup>th</sup> October 2016.
- (ii) Two days National Seminar on “Basic and Applied Immunology: An Industrial Perspective” (27<sup>th</sup> & 28<sup>th</sup> January 2017) :
  - (i) The Two days workshop on Molecular biology kits was aimed towards Skill development in the postgraduate students and teachers for the faculty of Life Sciences. The workshop was jointly organized by School of Life Sciences and School of Pharmacy. The Industry partner for the program was HiMedia Laboratories Ltd. Mumbai. As a resource person The industry deputed their R&D Executive Ms. Dhanashree Sampat and the program was coordinated from Industry side by Mr. Vivek Jain. On Behalf of School of Life Sciences Dr. Tushar Banerjee and Dr. Love Kumar Soni from School of Pharmacy coordinated the event.
  - (ii) A two day national seminar under University Industry Interaction entitled “Basic and Applied Immunology: Industrial perspective” was held on 27-28 January 2017 . First day deliberations were held at the IMS Auditorium and second day proceedings were held at School of Computer Science auditorium. The seminar was inaugurated by Prof Shailendra Saraf, Vice President of Pharmacy Council of India. Speaker of the seminar were Mr Ashish Sahai , Deputy Director ,Viral Vaccines, Serum Institute of India, Dr Naresh C Laddha ,Head, Department of

Molecular Biology, Unipath Speciality Laboratory Ahmadabad Gujrat, Dr Debashish Nayak of IIT, Dr Himanshu Kumar of IISER Bhopal, Dr Prashant Kodgire of IIT Indore. Eminent Scientist, Principals of various Pharmacy colleges, Heads of the University teaching Departments post graduate students and research scholars from various departments and students and faculty members from various science and pharmacy colleges attended the seminar. All the lectures were immensely appreciated by the post graduate students and research scholars of all the departments. The seminar was successful because of the joint effort of all collaborating departments. On Behalf of School of Life Sciences Dr. Tushar Banerjee and Dr. Love Kumar Soni from School of Pharmacy coordinated the event.

15. School of Physics organized a one day workshop to enhance the Institute Industry partnership on 20th January 2017. The experts invited to deliver the Lectures were drawn from academia and the industry, Dr. A. Bhawalkar, Prof. P.K. Sen, Dr. A Bhujale delivered the Lectures highlighting the need of practical training to the students, and the requirements of the industry. There was a visit of students to Quanta Lase Enterprise Pvt Ltd.



Fig. 8: One day Industry institute workshop being organized by School of Physics, DAVV

16 . A workshop on Industry institute interaction was organized on 10<sup>th</sup> March 2017 at School of Computer Science and information Technology; the venue was Dr. A. K. Ramani Memorial Lecture Hall at School of Computer Science & IT. The Objectives of the workshop were:

- Identify the opportunities for student project work/ internship in industries.
- Encourage the department level tie-ups or MoUs with industries for the mutual benefit.
- Enable students improve their skill sets for employability.
- Promote consultancy services to industry by faculty members.
- Organize workshops and seminars by industry experts.
- Develop R&D Laboratories/ incubation centre sponsored by industries at the Institute.
- Enrich the teaching learning process and curriculum development through participation of experts from industry.
- Provide industrial training and visits for students and faculty members so as to develop awareness about the job functions in the industry.
- Promote research and development activities with industry.

To fulfill above objectives the department organized a one day workshop on Industry Institute Interaction on 10<sup>th</sup> March 2017.

The workshop was inaugurated by Hon'ble Vice Chancellor, Prof. Narendra K. Dhakad and chief guest, Mr. Tarun Bhatnagar. Dr. Narendra Dhakad addressed about the importance of Industry Institute Interaction for better teaching-learning, to create awareness among the students about the environment of industry, provides real practical knowledge and self confidence to students to become a better technology competent. Prof. Sanjay Tanwani, Head SCSIT highlighted the objectives of the workshop and various expectations from student, industry, and institute.



Fig. 9: Inauguration of workshop ‘Industry institute interaction’ at School of Computer Science at Information Technology

The keynote lecture was delivered by following industry experts:

S. No.	Name	Title
1	Mr. Janardan Pendharkar, CEO TESH India.	IT service management solutions – an area of opportunities
2	Mr. Tarun Bhatnagar, CEO Medha Innovations and development private limited, Indore.	Evolution of data technologies
3	Mr. Prakash Somani, Director Enterprise hybrid IT offering, IBM Bangalore.	IBM WATSON: A most advance Artificial intelligent computing system

Following projects were showcased during the workshop :

S.No.	Student Name	Title
1	Mr. Divyank Sharma M.Tech(CS) IV Sem	Business Driven Modern Data Architecture
2	Mr. Kanishak Jain	Home Automation System



	MCA VI Sem	
3	Sourabh Shrimali M.Tech. (NM) IV Sem	De-militarized Zone
4	Bhini Shah Sakshi Tiwari M.Tech. (NM) IV Sem	Mail2Lead Automation
5	Piyush Adhikar Shashank Sharma M.Tech. (NM) II Sem	Digital Display Board –Using RaspberryPi
6	Jayprakash M.Tech(CS) IV Sem	WTM Accountbooks
7	Sunny Raikwar M.Tech(SE) IV Sem	GROMS
8	Vikas Malviya M.Tech.(NM) VI Sem	Samachar Rojgar

Students got a remarkable boost and confidence by demonstrating their work. Experts appreciated projects and also suggested more projects titles to work upon. The workshop aimed to derive some mutually beneficial solutions from experts from industry and academia both.

A panel discussion and open forum was also held among approximately 200 members including experts from industry, academia and students. In panel discussion, certain issues relating to improve the teaching learning process are discussed. The discussions by the panel members and the workshop participants are hereby summarized. The panel members were:

- Mr. Janardan Pendharkar, CEO TESM India.
- Mr. Prakash Somani, Director Enterprise hybrid IT offering, IBM Bangalore.
- Dr. Sanjay Tanwani, Professor and Head, School of Computer Science & IT, DAVV, Indore
- Mr. Mahendra Singh Patel, CEO Snaps System Pvt. Ltd., Indore & SCSIT Alumni.
- Mr. Ashok Holani, Chairman & Managing Director, Genesis Technologies, Indore & SCSIT Alumni.



Fig. 10: Group photo of the panel members at School of Computer Science at Information Technology

Dr. Shraddha Masih coordinated the panel discussion and raised various issues including internship, better placement, industry expectations, collaborations and updation of course curriculum. These issues were discussed in the form of questions and discussions, which are as follows.

17. On 24 September 2014, a University Industry partnership meet was organized at Bridgestone India Pvt. Ltd. Pithampur, Dhar. The members of the University Industry partnership Cell of Devi Ahilya Vishwavidyalaya were invited at the manufacturing facility in Pithampur. The country Head of Bridgestone Ltd. Mr. Ajay Shevkar delivered the welcome address. Shri Gautam Kothari, President of Pithampur Ayodhyik Sangathan stressed the need for collaboration between the activities of the University and the Industries. The need for upskilling the training of students, and the areas of cooperation were highlighted. Dr. Shashi Prakash, Co-Coordinator, UIPC provided an overview of the courses and the facilities available in the University, which could be utilized by the industry.