

Technical Report

Consultative Workshop on Academia-Industry-Government linkages for Quality Agricultural Education

(November 27-28, 2019)

Organised by

Sardar Vallabhbhai Patel University of Agriculture and Tech., Meerut

in collaboration *with*

ICAR-NAARM

Under National Agricultural Higher Education Project

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Consultative workshop on Academia-Industry- Government linkages for Quality Agricultural Education at SVPUA&T, Meerut November 27-28, 2019

Concept Note

The linkage between Agricultural Universities and industry refers to the interaction between any parts of the higher educational system and industry aiming mainly to encourage knowledge and technology exchange (Bekkers & Bodas Freitas, 2008; Siegel, Waldman, & Link, 2003). The collaboration has had a long history (Bower, 1993; Oliver, 2004), as one means of building organizations' knowledge stock (Cricelli & Grimaldi, 2010). Of late, there has been a substantial increase in these collaborations in several nations including, the United States (e.g. Lehrer, Nell, & Garber, 2009), Japan (e.g. Woolgar, 2007), Singapore (e.g. Lee & Win, 2004), and European Union Countries (e.g. Barrett, Austin, & Mccarthy, 2000; Gertner, Roberts, & Charles, 2011; Powers, 2003). Compared to western countries, India is lacking this collaboration and thereby losing many opportunities. This increase has been attributed to a combination of pressures on both industry and universities (Giuliani & Arza, 2009; Meyer-Krahmer & Schmoch, 1998). In case of industry, thrust is on rapid technological change, shorter product life cycles and intense global competition that have radically transformed the current competitive environment for most firms (Bettis & Hitt, 1995; Wright, Clarysseb, Lockett, & Knockaertd, 2008). With regards to universities, pressures have included the growth in new knowledge and the challenge of rising costs and funding problems, which have exerted enormous resource burdens on universities to seek relationships with firms to enable them to remain at the leading edge in all subject areas (Hagen, 2002). In addition, there is increasing societal pressure on universities for them to be seen as engines for economic growth and less as fulfilling the broader social remit (*i.e.* education and generating knowledge) they have had in the past (Blumenthal, 2003; Philbin, 2008). These pressures on both parties have led to an increasing stimulus for developing the linkage that aim to enhance innovation and economic competitiveness at institutional levels through knowledge exchange between academic and commercial domains (Perkmann et. al., 2013). Moreover, it has been widely perceived as a promising tool for enhancing organizational capacity in open innovation- where an organization employs external networks in developing innovation and knowledge (Dess & Shaw, 2001) as a complementary option to traditional internal Research & Development (Harvey & Tether, 2003).

Whilst a surge in linkage related research can be realized, the extant literature is still relatively fragmented and lacks a comprehensive view (Bovaird, 2007; Perkmann et. al., 2013). The importance of this, therefore, is to provide a greater understanding of linkage for knowledge and technology exchange by examining and critically integrating the main aspects of this inter-organizational relationship through a systematic review. In some years back the approach was; attitude or rather convenient concept and understanding of all concerned (including policy makers, expert bodies, educationist, educational institutes, industrial sector, banks, etc.) that the task to create a skilled labour, is assigned it to the Technical Institutes, such as IITs, Polytechnic Institutes, ITIs, etc. However, after late realization by the Government, policy makers and educationist, of the alarming, frightening, fear-provoking unavoidable truth of consistently increasing unstoppable number of unskilled and unemployed youth generations from then. So as to provide On-the-Job-Training by entering in to collaborations with the 'Industry' with an objective for skill development to make the educated youth self-employed by improving their employability. Most of the HEIs have also been asked to generate, at least in part, their own resources, and find that they must assist business to ensure survival. It is evident that, in the coming years, industry, universities, and research institutions will, out of necessity, have to assist each other. In order to do so they will, however, have to first overcome attitudinal differences and remove some obvious impediments.

Excellence, modernization, collaboration and self-reliance are the four crucial elements in the development of better and effective Higher and Technical Education. These factors should not be viewed in isolation but in relation to each other with the ultimate objective of attaining excellence. As Higher Education plays very important role in the society as it is directly concerned with providing leadership in various vocational, industrial, social and economic areas, determining the policies of modernization.

Need of the workshop:

In India it is important to have a stable partnership between Industries and Agricultural Universities. Collaboration between academia and industry has been rather restricted in India, in the past, possibly because of differences in values and attitudes, lack of appreciation of each other's abilities, skills and needs, and the absence of economic compulsions. Now the things are much better as both the parties field a clear need about their mutual relationship. The students of Higher Education are not getting desired practical benefits of education. Hence the ideal relationship between academia and industry are very much required. There

are Suggestive modes of industry-academia linkages. There are various ways in which Academia and Industry, (Swaminadhan D, 1990) can help each other.

Now a day there is lacking of the higher education quality in every sector. So it is needed to solve it as on priority basis. In western countries the universities and Industries are working with each other to improve the quality of industry by adding the new innovations and university are also get benefitted with the help of Industry by giving exposure to the budding graduates of university. With the help of this, both the university and industry are benefitted and improved the quality of the education as well. Similarly, the role of governments should involve the task of facilitating linkage of industry and university by setting out some appropriate policy frameworks. It will help for defining, among other things, research and development priorities in the light of prevailing socio-economic circumstances and for allocating resources across these priorities.

The review of literature from various studies suggested the following areas with respect to the role of universities, industries and government organizations to enhance quality higher education.

Role of Universities

- Encourage, enhance, create avenues and environment for greater involvement of faculty with industry.
- Encourage, enhance, create avenues and environment for staff exchange between industry and institutions.
- Encourage, enhance, create avenues and environment for greater involvement of Staff in R & D and Consultancy.
- Increase in compulsions and provide greater incentives for faculty to collaborate with industry.
- Provide linkage with Assessment of Performance of Faculty.
- Provide linkage with UGC's NAAC / AICTE's Accreditation of HE Institutions.
- Arrange Workshops and Training programmes for Industries to adopt modern / latest technology in industry.
- Provide training programmes for Technicians, Scientists and Engineers.
- Enter into MOUs with Industries for On-Job Training envisaged for/in Add-on Courses/Career Oriented Vocational Courses under the UGC-Career Oriented Programme (UGC-COP).

- Develop specialized continuing education programmes for updating skills and knowledge.
- Provide for representation or invite representatives from Industries on Board of Studies, Faculties, Academic Councils, Institutes/College Local Managing Committee.
- Provide material characterization, testing and certification facilities.
- Keep the industry informed about new discoveries/developments and innovative scientific work being undertaken.
- Provide consultancy services, of a viable nature, like the development of computer software, conduct of surveys, and solving problems.
- Undertake research related to technology transfer in collaboration with R & D units in industry.
- Help small and medium-scale industries to induct and maintain modern technology.

Role of Industries:

- Provide funds to institutes for R & D and Consultancy.
- Assist teaching programmes by giving endowments.
- Support research programmes; especially those on applied research.
- Participate, in institutions' initiatives in undertaking research related to technology transfer in collaboration with R & D units in industry.
- Make available sophisticated and costly equipment to the universities for research.
- Provide financial assistance for the development of the HE Institutions, University.
- Assist in the development of curricula and syllabi as per the requirements.
- Participate in teaching programmes.
- Participate in the Workshops and Training programmes organized by the HEIs/Universities for Industries to adopt modern / latest technology in industry.
- Participate in the training programmes for technicians, scientists and engineers organized by the HEIs/Universities.
- Enter into MOUs with HEIs/Universities for On-Job Training envisaged for/in Addon Courses/Career Oriented Vocational Courses under the UGC-Career Oriented Programme (UGC-COP).
- Provide facilities for hands-on training to students.

Role of Government Organizations:

The academia, Industry and Government linkage is the immediate need for the growth and development of the country. This triple helix model is one of the better options to hike the improvement of all such things.

Further, the government can also observe the actual lacunae in the whole process so as to take the decisions as per requirement and can make more funding to academia for collaboration. Government can also make it mandatory for the university and can pressurise it to get involved in this process of collaboration for the betterment of agricultural development of a particular state and the country at large. Government can also make a set of measures with the objective of encouraging universities to intensify the transfer of knowledge to companies by establishing a regulatory framework favourable to innovation. In the triple helix model government can lead the process of development and act as a guide to the other two helixes.

Government can create the environment for education and encourage the innovations of a particular Agricultural University. It can build communication infrastructure as well as physical infrastructure where there is actual requirement. It can also empower workforce through conducting the training programmes. Most importantly, Governmental policies can also encourage industry to develop partnerships with universities e.g. by providing tax incentives and funding programmes that require industries to work with universities as a condition of their funding.

Existing Model for Linkages:

In India, Agricultural Universities need to collaborate with the Industries aggressively to have impactful results and outcome. There are different revenue models available for their perusal and they can adopt a model based on individual requirements. Indian scenario may adopt the model proposed by Wignaraja (2003) and it may be suitable for Indian conditions. Below is the nutshell of the model proposed by Wignaraja (2003):

1. The first level is made up of the industrial clusters within a country (producers, buyers and suppliers).

2. The second level consists of a set of institutions and organizations which support the learning process in industrial clusters. These institutions include: universities, financial institutions, physical infrastructure and technological support.

3. The final level is the set of policies that stimulate the learning processes between industrial clusters and institutions. These policies include political and macroeconomic environment measures, trade and competition regimes, tax regimes and legislations.

Objectives of the Workshop

In view of the above, the workshop is being organized to find out the methodology, framework and policy required for enabling favourable working environment between an Agricultural University, Industry and Government. This will help all the stakeholders to communicate with each other seamlessly and thus improve each other's capability in terms of effective execution and creating huge impact.

A collaborative workshop on Academia-Industry- Government linkages for Quality Agricultural Education in collaboration with ICAR- National Academy of Agricultural Research Management was organised at Sardar Vallabhbhai Patel University of Agriculture &Technology, Meerut during November 27-28, 2019. This workshop has been organized with an attempt to get input for developing a framework to strengthen the relationship between the three parties i.*e* Agricultural Universities, Industry and State Government for improving quality of Agricultural Education. The Workshop was organized as a part of the World Bank funded National Agricultural Higher Education Project (NAHEP) Component -2A.

About seventy participants representing Agricultural Universities, Industry and government hailing from the states of Uttar Pradesh, Uttarakahnd, Madhya Pradesh and Bihar participated in the workshop. The CPI of the project, Dr S. K. Soam from ICAR-NAARM and Hon'ble Vice Chancellor of SVPUA&T, Meerut, Dr. R. K. Mittal appreciated the efforts made by the organisers in bringing all the three pillars at one platform who are responsible for quality agricultural education in the present scenario where agricultural universities should strengthen their relations with industry and state governments as agriculture is a state subject.

Dr S. K. Soam, CPI of NAHEP from ICAR-NAARM presented about the efforts undertaken as a part of NAHEP project and requested all the participants to be vocal and provide inputs for the development of a robust framework which will cater to the needs of Agricultural education of the country. Dr. Surya Rathore, Coordinator of this two day workshop synthesized all inputs provided by all the participants deliberated upon during the four technical sessions which was vetted by the house.

Prof. Shamsher, Dean PGS was Coordinator and Dr. Deepak Sisodia & Dr. Lokesh Gangwar were Co-Cordinators of the workshop from SVPUA&T. Dr. N. K. Taneja, Vice

Chancellor, CCS University, Meerut; Dr. Rameshwar Singh, VC, BASU, Patna; Dr. S. K. Garg, Former VC, U.P. Pt. Deen Dayal Upadhyay Pashu Chikitsalaya, Mathura; Dr. A. P. Garg, VC Shobhit University Meerut, Mr. Jasbir Singh from Shri Ram Fertilisers & Chemicals; Dr. Krishna Kumar Dean Horticulture and Forestry RPCAU,PUSA Bihar; Dr. Mridula Billore Dean Faculty of Agriculture RVSKVV, Gwalior; Mr. Abhay Kumar, Managing Director, Dayal group, Dr. G. D. Joshi, Joint Director Uttarakhand Livestock Development Board & Dr. S Senthil Vinayagam Principal Scientist, ICAR-NAARM, Dr. U.P. Shahi, Associate Professor, Soil Science and Dr. Archana Arya, Associate Professor, Basic Science, SVPUAT, Meerut among the others who actively participated in the workshop. The consultative workshop was organized jointly by ICAR-NAARM and SVPUA&T, Meerut.



Group Photo of the Participants

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Inaugural Session:

The Chief Guest of the inaugural Session was Prof. N.K.Taneja, Vice Chancellor, CCS University, Meerut and Chaired by Dr. R.K. Mittal, Vice Chancellor, SVPUAT, Meerut. The other Dignitaries who addressed the gathering included Dr. Rameshwar Singh, VC, BASU, Patna; Dr. S. K. Garg, Former VC, U.P. Pt. Deen Dayal Upadhyay Pashu Chikitsalaya, Mathura; Dr. A. P. Garg, VC Shobhit University Meerut. About 70 participants registered for the workshop and was a heterogeneous group representing Academia, Industry and Government Sector.



Technical Session-1

"Existing Linkage Mechanism of Agricultural Universities with Industries and State Government : Universities Perspective"

Chairperson:- Dr. Ashwani Goyal, Former Joint Director, Higher Education, U.P. **Co Chairperson:-** Dr. A.P. Garg, Vice Chancellor, Shobhit University, Meerut **Rapporteur:** Dr. Shweta Mishra and Dr. Vineeta Verma

Presentation 1 Dr Bsavaprabhu Jirli, BHU, Varanasi

- Collaboration of BHU:
 - International: CYMMIT : for Zero-Tillage, Biofortification
 - ICRISAT
 - BISA
 - IFPRI
 - Cornell University

National:

- Private Sector :
 - Bayer Crop sciences
 - ITC
 - Syngenta
 - Pioneer
 - VNR Seeds
 - Lovely Professional University
- **Public Sector:**
 - IARI
 - IIPR
 - CPRI
 - IISR

Presentation 2 : Dr Sunil Nahatkar, JNKVV, Jabalpur

- ➢ Linkages with
 - Government institutions: 12
 - o MOUs: industries : 17
 - o National Institutes: 6
- > A one day Industry-Academia Interface is organized on June 26, 2019:
 - Recommendations: (for B.Sc. Agri students)
 - Training on Input marketing need to be given
 - Use of equipments
 - Basics of FSSAI
 - Short courses of 15-20 days duration to be imparted by Industry
- Fellowships & Incentives to students need to be given by Corporate and Semi Govt. sector.
- > Mapping of Agri- industry demand for human resources
- The University-Industry linkages of US, Japan, China and Germany need to be studied

Presentation 3 : Dr Ajay Paliwal, UUHF, Uttarakhand

- Students undergo Industrial trainings : 15 days
- Government departments train forestry students
- Requested more Collaboration from Industry & Universities for linkages

Presentation 4 : Dr Atul Saxena, DUVASU, Mathura

- ► MOU:
 - IVRI
 - CIIRG
 - NDRI
 - NRC Meat
 - AIF Development Research Foundation
 - Brooks Hospital for Animals
 - Ayurvet India
 - Consultancy to Daurala Sugarmills, Meerut for best utilization of byproducts
 - University Industry Linkage:

Presentation 5 : Dr Fiaz Ahmed, BAU, Sabour, Bihar

- ► MOUs:
 - International : 6
 - Industries: 20
 - Entrepreneurship development through Incubation Centers

MOU with industry- Technology Validation

Presentation 6 : Dr Jonathan A Lal, SHUATS, UP

- ► MOU:
 - National: 48
 - International: 28
- Outcomes of MOUs:
 - PhD degree
 - Microbe & Laboratory services (Thee Netherlands)
 - Nanotechnology lab established
 - Grant from American Chemical Society
- \blacktriangleright Consultancy executed 18
- Startup Ecosystem IIIT, Allahabad

Presentation 7 : Dr Sanjiv Kumar, Banda Agricultural University

- ► MOUs:
 - Private Sector:
 - YARA Fertilizers
 - Godrej
 - Dayal Group
 - Geolite
 - International: ICRISAT, IRRI
 - National: 12 ICAR institutes
 - ▶ Interface meet of University –industry: to be held: January, 2020

Presentation 8 : Dr Anil Sirohi, SVPUAT, Meerut

- ► MOU:
 - International: IRRI,CYMMIT
 - National; NIPGR, IARI etc.
- > Linkages with private companies for contract services for testing products
- Industries should come for research collaboration
- MOU with Cornell University in the past: major thrust on Soft skills, problem solving, critical thinking
- > Linkages with private companies for contract services for testing products
- > Industries should come for research collaboration

Concluding Remarks by Chairperson

- > 5th Deans committee syllabus need to be reoriented
- FSSAI food testing training is essential for students: need to be included in the curriculum
- Soft skills and Publication skills should be improved among students



Technical Session 2

Theme : Existing Linkage mechanism of Agricultural Universities with Industries and state govt. Industry and State Govt. Perspectives

Chairman: Dr. Mridula Billore, Dean Faculty of Agriculture, Rajmata vijaya Raje Scindia Krishi Vishwaydyalya, Gwalior.

Co Chairman: Mr. Jasbir Singh National Sales Head, Sriram Fertilizers.

Rappourters: Dr. Archana Arya, Associate Professor Basic Science

Dr. Shivani Sahu Assistant Professor Veterinary Science.

There were participants from state govt. and only 2 deliberations were there from Govt. Sector, first from Mr. Vinod yadav, state fisheries department, uttarakhand and second from Mr. G.D.Joshi, Joint Director Animal Husbandry Uttrakhand. There was no representation from state Agriculture and Horticulture Departments.

Presentation 1: Mr. Vinod Yadav State fisheries department, Uttarakhand

Uttarakhand Fisheries Directorate is doing much work to promote Fisheries, but there was no linkage with academia or industry.

<u>Presentation 2</u>: Dr. G.D.Joshi presented at length the highly applandable works being done by the board which is an autonomous body. The board as such does not have industry linkage as such but they present a business model for agrientrepreneurship.

- He suggested that marketing should be added to science and Agriculture degree programs.
- There were some presentations from the industry, First was by Mr. Anand Pratap Shahi – Bayer Crop Sciences. He talked about Better life farming Alliance in which they have Alliances with Bank & insurance people, Nutrition companies, seed industry and Marketing partners.
- > He talked about the Agri. Entrepreneurship Model.
- > They are in process of getting MoU with NDUAT& BHU
- > He emphasized on close linkages between Industry, Academia & Govt. Deptt.

Presentation 3: Mr. Jitendra Singh from Dayal Fertilizers

- > He told about having multi location trials at Akaola Agriculture University.
- They have Linkages with KVKS and working on Commercialization of products in biocontrol.

Presentation 4: Mr. S.P.Singh, AGM Mawana Sugars

- His group is working on : Soil Health, water Conservation, varietal improvement, crop productivity & mechanization.
- Under Drip Irrigation project —f"k flapkbZ fodkl ;kstuk 500 ha area under Drip irrigation they are having linkage with state govt. as this Scheme is launched with help of state govt.
- Under Soil Health Improvement program they have collaboration with IFFCO and Kribhco.
- The Bio Compost is supplied free of cost to farmers, after organic matter tested by govt. agency
- Linkage with university is on cards

> MoUs with IISSR and Sugar cane breeding Station Karnal.

Presentation 5:

Mr. Jasvir Singh, National Sales Head Shriram Fertilizers and Chemicals

- Solution Gave suggestions to strengthen the whole setup to improve linkages
- Paid internship programs/ industrial trainings/ factory visits/ alumni meet and fund support from the industry.
- > Educational institute should focus on industry ready institutes.
- Chairman's comments: All the deliberations indicates lack of linkages and rapports between induatsry acdamia and government sector. Linkages should involve all stake holders
- Government department of agriculture, horticulture and veterinary should take the lead.
- > UG and PG courses should be industry oriented
- Industry should be involeved in RAWE, internshgip, industry training and PG/ Ph.D Reaserch.
- > Industry people can be invited as guest faculty.
- > Focus should be on higher education and not only farmers.



Technical Session -3

Brain storming session on improving the quality and relevance of Agriculture Education

Chairman: Dr. Krishan Kumar,Co- Chairman: Dr. JirliRapporteur: Dr. Kuldeep Kumar TyagiConducted by: Dr. Surya Rathod

The session was initiated with card game, in which cards of three different colours were given to three stake holders i.e. Academia, Industry & Government respectively.

They were asked to provide their expectations from other two stake holders pertaining to improvement of quality and relevance of Agriculture Education. Thereafter, they were asked to provide what expertise they have and their willingness to help. Accordingly after collecting the cards, responses were discussed in general to deduce various takeaway points from Expectations, Area of expertise available and willingness to help by different stakeholders:

- 1. Industry want cutting edge technology with scalability and innovative solutions for current issues, Academia is willing to provide Methods / processes, approaches and various models useful for end consumer and industry.
- Government is expecting good trained quality human resource from academia and their policy making inputs. Academia has in offer help for developing international linkages.
- 3. Academia expectations from industry were commercialization of innovations, need based infrastructure, collaborative research. Industry was willing to help in problem based research, training of students and establishment of international linkages through their resources.
- 4. Government expects from industry that they share their services for social benefit, pay full tax and come forward with more and more corporate social responsibility funds.
- 5. Academia wanted from government that there should be less red tapism, they should be open to innovative ideas, should provide adequate infrastructure and should select good leaders in academic institutions.
- 6. Industry expects less interference from government and requisite infrastructure and land for their expansion.

The session ended with thank note from Dr. Surya Rathod



Technical Session IV

Brain storming session: way forward to maintain linkages

Chairperson: Dr A. P. Garg, Vice Chancellor Shobhit University, Meerut

Co- Chairperson: Dr. Mridula Billore, Dean, Faculty of Agriculture Rajmata Vijayaraje

Scindia ,Krishi Vishwa Vidyalaya Gwalior, MP

Rappourters: Dr. Archana Arya, Associate Professor Basic Science

Dr. Shivani Sahu, Assistant Professor Veterinary Science.

Four mixed Groups were formed having Participants each from Industry, Academia and Government Sector.

Group Leader 1- Dr. Krishan Kumar Highlighted on following Points

- > Industry People should be included in Teaching
- > Faculty & Students Visiting Program with the Industry should be introduced
- Customized sponsored training by the industries which depends upon the types of program student ready program or industrial attachment program.
- > Corporate should be approached do sponsor chair of the respective industry.
- > MoU should be standardized and executed properly.
- > Nomination of industry member board of studies
- > Inclusion of industry members in student advisory committee for research

Group 2 Leader- Dr. B. Jirli, BHU, Varanasi

- > There is lack of exclusive MoU for educational purpose
- Engagement of part-time faculty from the industry
- > Participation of industry in design curricula at ICAR level
- Joint organization of extension activity by Academia, Industry and Government sector.
- > Corruption is the de motivating factor for the industry which should be looked upon.
- > Using corporate social fund of the industry for developing functional MoUs
- Identification of students during the education period to enhance the skills accordingly.
- Documentation of success stories of agricultural graduates and post graduates so that it motivates other students as well.

Group 3 Leader- Dr. Jonathan A. Lal, SHUATS, Prayagraj, UP

- The industry looks for certain qualities while hiring stutends like sales and marketing, communication skills, organizing sakills and computer skills.
- > Guest lectures should include industrial people.
- > Syllabus should be updated.
- Classification of students as per interests
- > Selection of students at early stage and grooming them.
- > Training to the students for industry requirement.

Group 4 Leader- Dr. GD Joshi, Joint Director, Animal Husbandry, Uttrakhand.

- > Lack of industrial funds to government organization.
- > Departmental Officers and industry people abould be called for geust lectures.
- Upgrading students to latets technology by industry exposure.
- > Close linkage of local industry with local government institutuin.
- > ICAR course curriculum should have inputs from government departments.
- > The EL program of ICAR should be in PPP mode.
- More need based policies.



Take Home Points

India is a country with the largest system of Agricultural Education having 62 State Agricultural Universities, 5 Deemed to be Universities, 3 Central Agricultural Universities and 4 Central Universities with Agriculture Faculty and there are number of Private universities & Institutes offering BSc, MSc producing around 75,000 students every year. There is a thick line between the number of students passing out and availability of jobs.

ISSUES

- Facilities for quality education & research lacking in most of the AUs
- Agriculture universities are conducting research but there is no compulsion on technology commercialisation which is need of the hour in this era of IPR.
- There is no say of industry & Govt. in curriculum development in universities
- Quality & need based demand driven research is lacking in our SAUs.
- Lack of MOUs for education purposes

Solutions /Way Forward

- Industry people can be called as guest faculty for teaching
- Corporate world should be approached to offer chairs. Example: IFFCO chair, NABARD chair *etc.*

- MOUs should not be in shelves but be there in true sense & functional by means of CSR funds
- Nomination of industry members in board of Studies of Universities
- Industries should sponsor corpus money for thesis & One of them should be member of Advisory committee as per university norms
- Participation of Industry representative in BSMA of ICAR for increasing employability of students.
- As per 5th Dean's committee of ICAR, Universities have the leverage to involve 30% of the content in the syllabus which can be done through intervention of industries and government who are the ultimate job providers for our Agri-graduates.
- Demarcate students' strength during graduation & that particular strength should be strengthened and accordingly he/she should be guided to join that type of job, this can be done through establishment of Career Development Centres which would give single window solutions for jobs and entrepreneurship development.
- Success stories of Agri-graduates should be shared with our budding agricultural graduates
- Enhancement of soft skills & computations skills among UG students which normally lacks in agricultural graduates who are coming from vernacular medium.
- Introduction of Vocational Courses ranging from 1-6 Months which can be done along with degree in the evenings for enhancement of practical knowledge among students.
- Some of the practical sessions of the university students can be conducted in the industries/ Govt. Institutes which are leaders in that particular domain
- Cutting edge technologies models processes of academia can be used by the industries
- Training of students in industries summer trainings/ Internship

Media Coverage of the workshop





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कृषि विवि

ोदीपुरम हमारे संवाददाता

सरदार वल्लभ भाई पटेल कृषि विश्वविद्यालय में भारतीय कृषि अनुसंधान परिषद, राष्ट्रीय कृषि शोध प्रबंधन अकादमी हैदराबाद व कृषि विश्वविद्यालय मेरठ की ओर से कार्यशाला का आयोजन किया गया।

कृषि महाविद्यालय के ऑडिटोरियम में कार्यक्रम के प्रथम सत्र की अध्यक्षता विश्वविद्यालय के कुलपति डॉ. आरके मित्तल ने की। मुख्य अतिथि सीसीएसयू के कुलपति प्रोफेसर एनके तनेजा रहे। उन्होंने कहा कि वर्तमान समय के अमुरूप शिक्षा एवं शोध की आवश्यकता है, ताकि इंडस्टी एवं किसानों को शिक्षा, शोध एवं सरकार की योजनाओं का फायदा मिल सके।

डॉ. आरके मित्तल ने कृषि उच्च शिक्षा की गुणवत्ता में सुधार के लिए प्राइवेट पार्टनरशिप की ओर ध्यान दिए जाने पर जोर दिया। कहा कि भारत सरकार द्वारा चलाया जा रहा क्लिक इंडिया प्रोग्राम काफी सराहनीय है, इससे गांव में रोजगार बढ़ने की संभावनाएं हैं। उन्होंने बताया कि विश्वविद्यालय द्वारा लघु एवं सीमांत किसानों की आय बढ़ाने के लिए डिप्लोमा एवं सर्टिफिकेट कोर्स भी प्रारंभ किए जा सकते हैं, जिससे गांव स्तर पर भी उनको स्वरोजगार मिल सकें बिहार पशु चिकित्सा विज्ञान विवि पटना के कुलपति डॉ. रामेश्वर सिंह ने बताया कि वर्तमान समय में नई-नई तकनीकियां आ गई हैं, लेकिन हमें क्षेत्रीय स्तर पर समस्याओं को चिहिनत कर उनके समाधान के लिए इंडस्ट्री के साथ मिलकर शोध करने की आवश्यकता है। शोभित विश्वविद्यालय के कुलपति

डा. एपी गर्ग ने सुझाव दिया कि विश्वविद्यालयों के प्रबंध मंडल में प्राइवेट इंडस्ट्री के प्रतिनिधियों को भी सम्मिलित किया जाना चाहिए, ताकि तकनीकि ज्ञान के प्रसार में वह भी सहयोग कर सकें। अभय कुमार ने कहा कि हमें किसानों की खुशहाली के लिए इंडस्ट्री और शिक्षण संस्थाओं द्वारा संयुक्त प्रयास करने की आवश्यकता है। डा. एके सोम, डा. सूर्या राठौर ने भी विचार रखे।

चार प्रदेशों से शैक्षणिक संस्थाओं, इंडस्ट्री, भारत तथा राज्य सरकारों के कृषि व इससे संबंधित विभिन्न विभागों के 60 से अधिक उच्च अधिकारियों ने कार्यशाला में प्रतिभाग किया। कुलसचिव डॉ. बीआर सिंह, डॉ. स्यां राठौर, प्रो. शमशेर, डॉ. एलके गंगवार, डॉ. दीपक सिसौदिया, डॉ. यूपी शाही, डॉ. आरएस सेंगर, रितुल सिंह रहे।

शिक्षण संस्थान- उद्योग एंव सरकारी योजनाओ से कृषि उच्च शिक्षा को मिलेगी नई दिशा

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एनके तनेजा ने बताया कि वर्तमान

समय में अनुरूप शिक्षा एव शोध की

आवश्कता है, जिससे कि इन्डस्टी एव

किसानों की शिक्षा शोधएंव सरकार

को योजनाओं का लाभ मिल सके।

यदि तीनों लोग भागीदारी करके कार्य

करेंगें तो उच्च शिक्षा की गुणवत्ता में

काफी अधिक सुधार आ सकेगा। डा

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मरवर वल्लभभाई पट ल कृषि एव पौद्योगिक विश्वविद्यालय में भारतीय कृषि अनुसंधान परिषद राष्टीय कपि शोध प्रबंधन अकाटमी हैदराबाद व कपि विवि मेरठ में संवक्त रूप से एक कन्सलटेटिव वर्कशॉप कार्यशाला का आयोजन कृषि विवि के आडिटोरियम में किया गया। आयोजन सत्र की अध्यक्षता कृषि विवि के कुलपति प्रो० डा० आरके मित्तल ने को एंव मुख्य अतिथि प्रोफेसर एनके तनेजा कुलपति चैघरी चरण सिंह विश्वविद्यालय ने की कार्यशाला का शुभारंभ दीप प्रज्जवलित व विवि की लात्राओं दारा मां सरस्वती चंदना क गायन के साथ किया गया छोफेसर आरके मित्तल ने कृषि उच्च शिक्षा की

IITEPIT में उनका फायदा होगा। बताया कि सुधार के लिए विवि द्वारा लघु एव सीमांत किसानों की आय दोगुनी करने के लिए डिप्लोमा एवं सर्टिफिकेट कोर्स भी पार्ट नगरिएप को और ध्यान प्रारंभ किएं जा सकते है। जिससे गांव टिएं जाने पर स्तर पर भी उनकों स्वरोजगार मिल जोर दिया। सके। कृषि विवि लघुएंव सीमांत को आय बढाने के लिए किसानी प्रयासरत है। डा० रामेश्वर सिंह , कुलपति, बिहार पशुचिकित्सा विज्ञान संस्थानों-इंडस्टी-सरकार कोर्डिनेशन विवि पटना ने बताया कि वर्तमान समय में बहुत नई नई तकनीकियां आ पकोष्ट पत्येक विष्ठवविद्यालय में गई है।, लेकिन हमें क्षेत्रिय स्तर पर स्थापित किएं जाने का सुझाव दिया। कलपति मित्तल ने कहा कि भारत समस्याओं को चिनितत कर उनके सरकार द्वारा चलाया जा रहा स्विल समाधान के लिएं इंडस्टी के साथ मिलकर शोध करने की आवश्कता है। डा० एपी गर्ग कुलपति शोभित विवि ने सुझाव दिया कि विश्वविद्यालय के संभावना है। कहा कि जितने स्किल लोग होगेंउतना ही स्वरोजगार खोलने प्रबंध मंडल में प्राइवेट इंडस्टी के

पॉलिनफियों को भी मम्मलित किया जाना चाहिएँ। जिससे तकनीकी जान के प्रसार में वो भी सहयोग कर सके। अभय कुमार ने कहा कि हमें किसानों की खुशहाली के लिए इंडस्टी और शिक्षण संस्थाओं द्वारा संयुक्त प्रयाय करने की आवश्कता है। डा० एके सोम , डा० सूर्या राठौर ने अपने विचार रखे। चार प्रदेशों से शैक्षणिक संस्थानों, इंडस्टी, भारत तथा राज्य सरकारों के कृषि व इससे संबंधित विभिन्न वभागों के 60 से अधिक उच्च अधिकरियों ने कार्यशाला में प्रतिभाग किया। कुलसचिव डा० बीआर सिंह डा० सूर्वा राठौर, प्रो० शमशेर सिंह डा० एलके गंगवार, डा० दीपक सिसौदियां, डा० यूपी शाही, डा० आरएस सेंगर व रितुल सिंह आदि मौजद रहे।



सियासत । मोदीपुरम।