

Bachelor of Vocational Science Courses in Dayalbagh Educational Institute

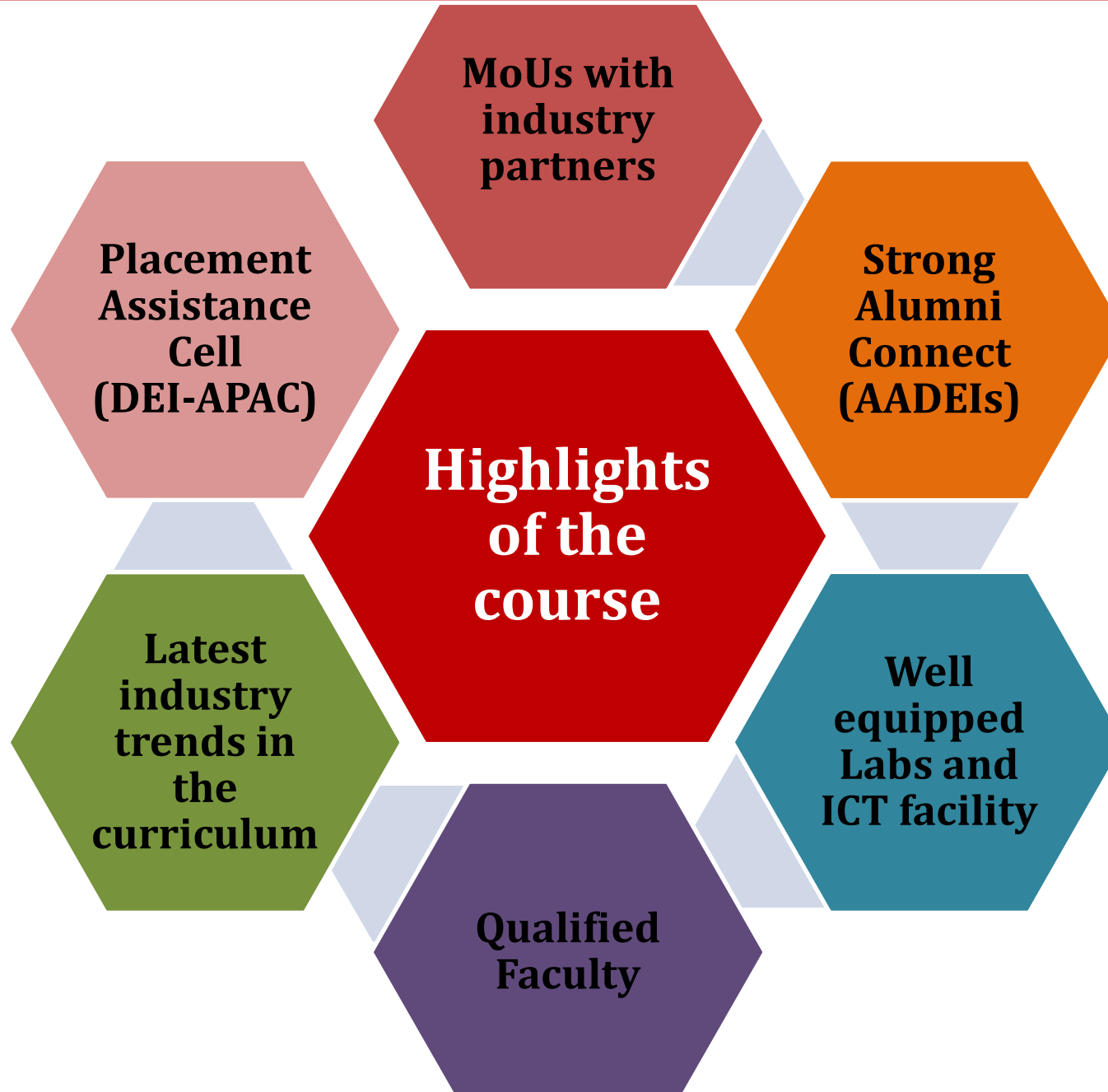


B. Voc. Science Courses

	B.VOC. BRANCH	NAME OF BRANCH IN-CHARGE /COORDINATOR
1	AGRI. TECH	DR. A. K. Shukla - DEPT. OF BOTANY
2	GREENHOUSE	Dr Akbar Ali- DEPT. OF BOTANY
3	DIGITAL MANUFACTURING	DR. RAHUL S. SHARMA, DEPT. OF ELECTRICAL ENGINEERING
4	RENEWABLE ENERGY	DR. GAURAV RANA- DEPT. OF ELECTRICAL ENGINEERING
5	AI & ROBOTICS	PROF PATVDHAN, DEPT. OF ELECTRICAL ENGINEERING
6	AUTOMOBILE	DR. RAJAT SETHIA – USIC
7	TELEMATICS	DR. K SOAMI DAYA- DEPT. OF PHYSICS
8	TELECOMMUNICATIONS	DR. SANDEEP PAUL- DEPT. OF PHYSICS
9	IOT	DR. R. PAVITHR, DEPT. OF PHYSICS
10	DAIRY TECHNOLOGY	DR. K SRINIVAS- DEPT. OF ELECTRICAL ENGINEERING
11	WATER SANITATION & WASTE MANAGEMENT	DR. SOAMI P. SATSANGEE- USIC

**Bachelor of Vocation
in
Artificial Intelligence and
Robotics**

B.Voc in Artificial Intelligence and Robotics



B.Voc in Artificial Intelligence and Robotics

Course Objectives



**To provide integrated scientific
knowledge in multiple domains**

**To train the students in the latest
industry trends**

To produce skilled manpower

B.Voc in Artificial Intelligence and Robotics

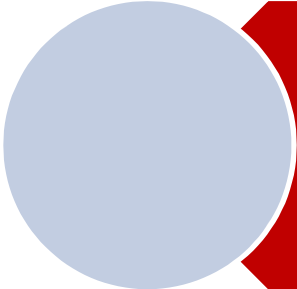
Benefits to the Society



**Can help in transforming
Agriculture and Industry with
intelligent machines**



**Can help in strengthening the
economy**



**Can play vital role in the current
Intelligence revolution**

Values such as discipline, hardwork and humility are instilled into the students by the work and study culture

Students are encouraged to work on new and innovative projects every semester as a part of their minor projects

Innovation

Value based education

Air Quality

Familiarises students with the aspects of Sigma Six Q

Green campus with an ideal environment for learning

Students get first hand experience about the various agricultural regimes and practices. Students are provided with milk products produced at RSS Dairy

Agriculture and Dairying

Water Quality

Clean drinking water available throughout the campus

Quality Education and Healthcare

Knowledge delivery with qualified and experienced faculty. Close proximity to Saran Ashram Hospital

B.Voc in Artificial Intelligence and Robotics

Students @ work



SOLAR TRACKING SYSTEM

GESTURE CONTROLLED ROBOTIC CAR

TELEPRESENCE ROBOT

ROBOTIC CALLIGRAPHY

SMART WATER TAP SYSTEM

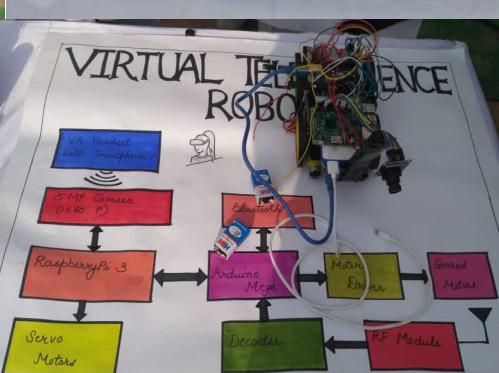
FLAME SENSING ROBOT

B.Voc In Artificial Intelligence and Robotics

MOTIVATION

- Artificial Intelligence is the science and engineering of making computer machines able to perform tasks which normally require human intelligence, such as visual perception, speech recognition, etc.
- Humanity today is at the cusp of an Intelligence Revolution! The current intelligence revolution is unique in its speed and extent of change. It is transforming Agriculture, Industry, Entertainment and other fields completely.
- According to a recent report from McKinsey, Alphabet invested roughly \$30 billion in developing AI technologies. Baidu, which is the Chinese equivalent of Alphabet, invested \$20 billion in AI last year.

FACULTY OF ENGINEERING
DAYLABAGH EDUCATIONAL INSTITUTE
Agra - 202005, Uttar Pradesh





Progress Report of B.Voc. Automobile



**Dayalbagh Educational Institute (Deemed
University), Dayalbagh,
Agra-282005**



Objectives of B.Voc. Course in Automobile @ D.E.I.

- To develop and understand the *principles of design, construction and working of mechanical systems and electronic systems* in automobiles.
- To produce graduates with a broad understanding of all *contextualized elements* related to the automobiles.
- The *main focus* of this program is to impart knowledge to graduating students on the *basics of automobiles, understanding of mechanical analysis and design* combined with the *advancement of sensor and microcontroller technology* as well as *vehicle to vehicle communication protocol (Smart Electric & Hybrid Vehicles)*



Salient Features of the Course

This course will provide knowledge and improve skill-sets in:

- Developing the process of learning through a *comprehensive educational plan*.
- Fault Diagnosis.
- Providing students with appropriate *atmosphere* to create and distinguish.
- Introducing the importance of *advanced technology of electric and hybrid vehicles* to the students.
- Creating job opportunities



Career Opportunities

Employment opportunities are expected to keep pace with continuing rapid advances leading to increased demand for competent and versatile graduates who can *design* and *implement innovative solutions* for the automobile industry in general and *automotive electronics industry* in particular. The course aims to enable students to meet this demand.

Proposed Future Plan

As the current fossil fuel based conventional technology in automobiles is going to get obsolete in coming years, it is proposed to make the students of B.Voc. automobile well knowledgeable in latest technology which is likely to take over the current techniques. Some of the latest technological trends which will take shape of courses to be taught with their labs are:

- ***Automotive Internetworking***
- ***Vehicle to Vehicle (V2V) Communication Technologies (Smart Electric & Hybrid Vehicles)***
- ***Intelligent Transportation Management Systems***
- ***Vehicle Safety & Security Systems***



Details of Industry Partner

S. No.	Name of the Programme	Details of the Industry Representatives	Name of the Organization and Address	Contact Details (Mobile, e-mail)
1.	Automobile	Mr. Ravinder Singh Vice-President, Planning & HR	M/s India Yamaha Motors Pvt. Ltd., Surajpura, Haryana	ravindersingh@ yamaha-motor- india.com 09811404223



Courses dealt by faculty from partner industry

Courses	Industry partner
Practical training on general awareness of two wheeler, safety, 5S etc.	Yamaha Motors India Pvt. Ltd.
Practical training on two wheeler body	Yamaha Motors India Pvt. Ltd.
Practical training on two wheeler engine system	Yamaha Motors India Pvt. Ltd.
Practical training on auto electrical system	Yamaha Motors India Pvt. Ltd.



Availability of Labs

Available Labs

- Engine Tuning & Testing lab
- Engine Dismantling & Assembling Lab
- Database Management & AutoCAD
- Environmental Science Lab

Developed

- Electric and Hybrid Vehicle Lab



Availability of workshop facility

Full fledged workshop facility is available having following facilities for both four and two wheeler:

1. Two post lift
2. AC recovery machine
3. Wheel aligner
4. Wheel balancer
5. Exhaust smoke meter
6. Car engine scanner
7. Cut sections of engine, clutch, gearbox, ac compressor, cooling coil, differential etc.
8. Nitrogen Tyre Inflator



Availability of Computer Internet Facility

Hardware	Availability in numbers
Computers	06
Laser Printers	03
LCD Projectors	03
Plasma Screen 52 inches	01
High speed internet facility	available



Details about internal faculty members involved

Staff /Faculty involved in B.Voc. (Automobile)			
S.No	Name	Department	Courses
1.	Vijay Malhotra	Automobile	Auto Electrical, Auto Drawing & Design, Automotive Engine Systems-I
2.	Majer Singh	Automobile	Motor Vehicle Technology
3.	Dr. Rajat Setia	Automobile	Automotive Engine Systems-II, Automotive Maintenance & Repair, Electric & Hybrid Vehicle
4.	Gurudev	Automobile	Practical Training & workshops
5.	G.S. Bedi	Automobile	Practical Training & workshops
6.	S.K. Arora	Automobile	Garage Organisation & Transport Management



Student intake proposed, students admitted, on rolls & dropouts

Eligibility criteria - 10+2 from U.P. Board or equivalent with Physics, Chemistry, Math

Year	Student Intake Proposed	Students admitted	Female Students	Exit options availed	On rolls	Drop outs
2014-15	50	25	0	0	24	1
2015-16	50	40	0	0	31	9
2016-17	50	78	0	0	70	8
2017-18	50	70	0	0	65	5
2018-19	50	65	0	0	60	5



Students Initiatives

Students of B. Voc. have fabricated following vehicles

1. Series Hybrid Electric Vehicle
2. Electric All-Terrain Vehicle
3. Electric 3 wheel Segway
4. Parallel Hybrid Vehicle
5. Autonomous Vehicle
6. 3 Wheel Electric Tadpole Vehicle
7. Electric Racing Kart
8. Electric Golf Kart
9. Hybrid Electric Bike

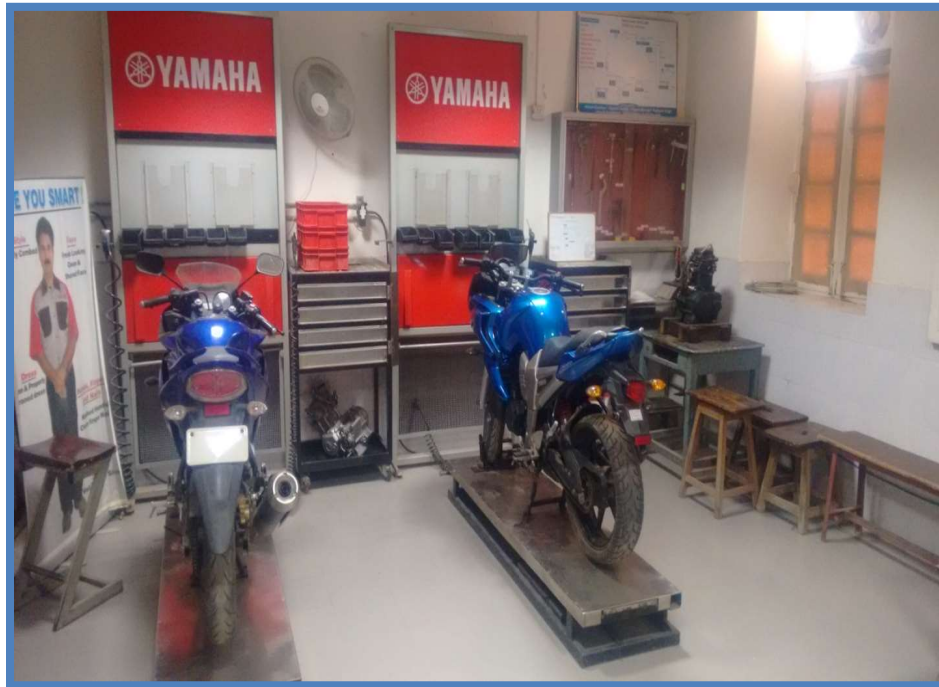


Autonomous Vehicle Developed





Yamaha Workshop



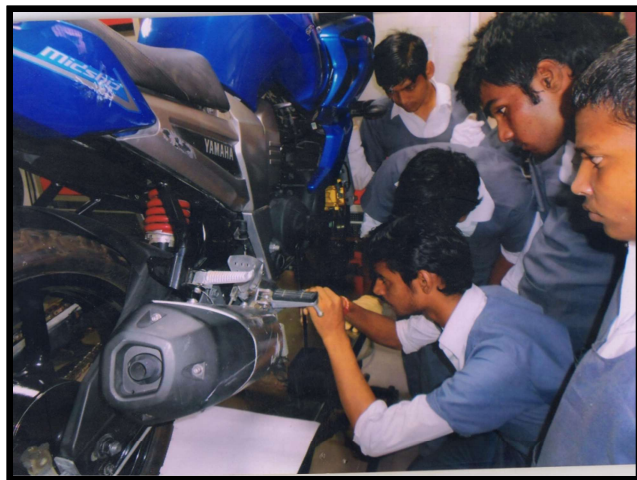


Classroom and Library Facility





Students at work





Students at work





Electric Golf Cart Developed by Students of B.Voc. Automobile





Students Developing Driverless Electric Vehicle





E-rickshaw assembled by the students of B. Voc. Automobile





Electric Vehicles Under Development





Electric Kart Developed by Students of B.Voc. Automobile



**Bachelor of Vocation
in
Telecommunications**

- ❖ **Started in Session 2019-2020**
- ❖ **Intake 50 students**
- ❖ **The main objective of the programme is to contribute to the National Mission on Skill Development by incorporating the requirements of the industries and society in an innovative and flexible manner and produce well groomed graduated who are ready for the industry.**

- ❖ **The B. Voc. (Telecommunications) captures the latest skill sets in demand in the telecom industry, which are in turn linked with several other sectors owing to the communication network needs.**
- ❖ **Programme offers courses like ICT infrastructure-cabling-operations, Fiber optic technology and optical communication, Information Security, Network management, Cloud technologies, IoT, Big Data, Machine Learning, Data Analytics are also integrated into this proposed curriculum which will equip students with the entire range of top end skills applicable to all sectors riding on the telecom sector.**
- ❖ **The B. Voc. (Telecommunications) also has the provision of multiple entry and exit at various levels.**

B.Voc in Telecommunications

Telecom Industry in India



B.Voc in Telecommunications

Letters of Support



VIHAAN NETWORKS LIMITED
21-B, Sector 18, Udyog Vihar,
Gurgaon 122 015, Haryana, India
T: +91 124 265 7600 F: +91 124 410 4766

Date: June 20, 2019

28th June 2019

To

The Director
Dayalbagh Educational Institute
(Deemed University)
Dayalbagh, Agra-282005.

The Director
Dayalbagh Educational Institute
(Deemed University)
Dayalbagh, Agra 282005

Dear Sir,

Dear Sir,

We are happy to learn that Dayalbagh Educational Institute is starting a new B.Voc. (Telecommunications) Degree Programme aligned with Telecom Sector Skill Council (TSSC) of National Skill Development Corporation (NSDC). This Programme will prove quite useful to the Telecommunications as well as IT Sector and would contribute to the National Mission on Skill Development.

Thank you very much for your email introducing DEI's new stream of Bachelors of Vocational Degree (B.Voc) degree programme in Telecommunications aligned with Telecom Sector Skill Council (TSSC) of National Skill Development Corporation (NSDC). We are sure this Programme will be helpful to the needs of the Telecommunications as well as IT sector and would contribute to the National Mission on Skill Development.

We would be happy to support DEI in reviewing the Course Curriculum & providing our suggestions based on technology trends, guidance to staff members, Expert lectures and Short term internships.

We would be happy to get associated with DEI and provide our support at different levels including contributing in review and refinement of Course Curriculum aligning it with the industry needs & technology trends, guidance to staff members, Expert Lecture and short term internships.

Thanking you,

Yours Sincerely

Sarvdeep Garg
Director-Human Resources
Huawei Telecommunications (India) Co. Private Limited

Thanking you,

Yours sincerely,

For Vihaan Networks Limited

Sanjeev Kakkar
President & Chief Strategy Officer
+91 98110 24448

HUAWEI
TELECOMMUNICATIONS (INDIA) CO. PVT. LTD.
Registered Office
301-302, Tower-A, Space 1-Tech Park,
Software Road, Sector-49 Gurgaon-122011,
Haryana, India
Tel: 91-124-4774700
Fax: 91-124-4774801
Email: india@huawei.com
CIN : U94202-HR2002PTC034937

**Bachelor of Vocation
in
Internet of Things**

B.Voc in Internet of Things

Program Outcomes

PO-9: Individual and Team Work

PO-10: Communication

PO-11: Project Management and Finance

PO-13: Life-long learning

PO-12: Vocational and Industry Exposure

PO-1: Professional Knowledge

PO-2: Problem Analysis

PO-3: Design and Development of Solutions

PO-4: Conduct Investigations of Complex problems

PO-5: Modern Usage tools

PO-6: Inter and Trans disciplinary Development

PO-7 : Jugaad Innovation and Entrepreneurship

Academic

Program Objectives

Moral and Spiritual values

Social Sensibilities

PO-8: Professional Ethics

PO-18: Physical and Mental wellness

PO-17: Integrated Value System

PO-14: Education and Society

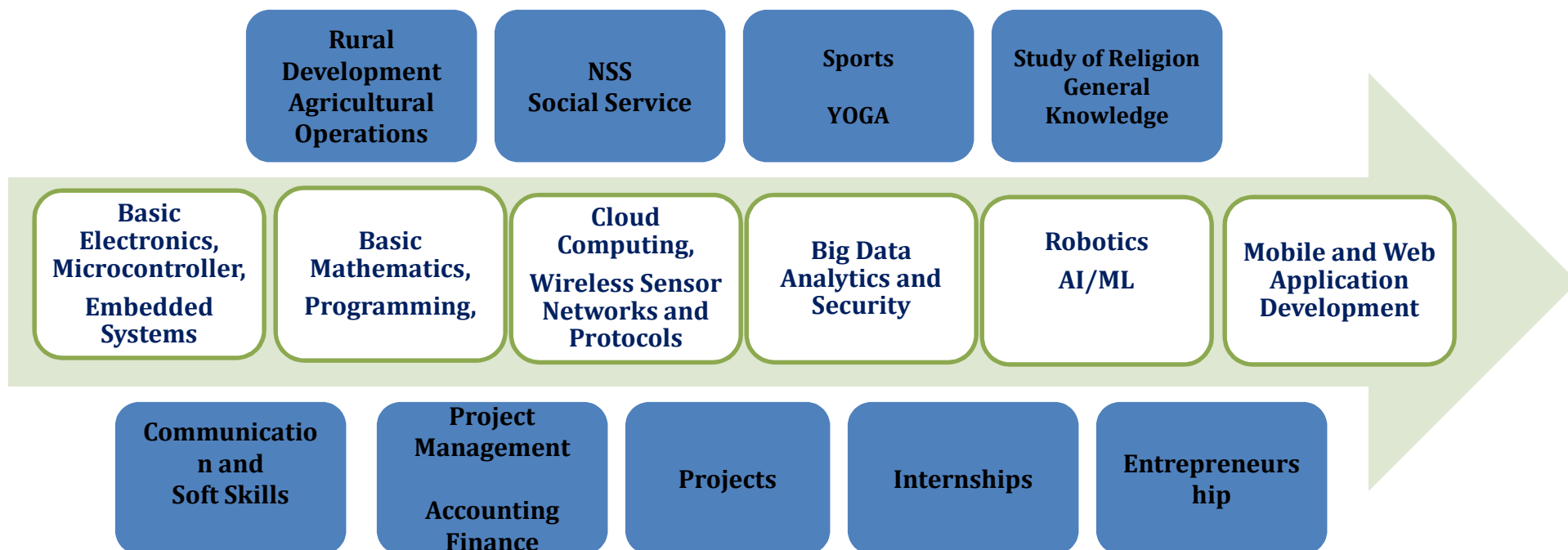
PO-15: Environment and

PO-16: Social Sensibilities and

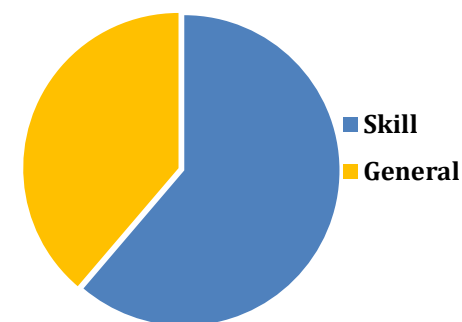
PO-19: National constitution, culture and Heritage

B.Voc in Internet of Things

Curriculum Design

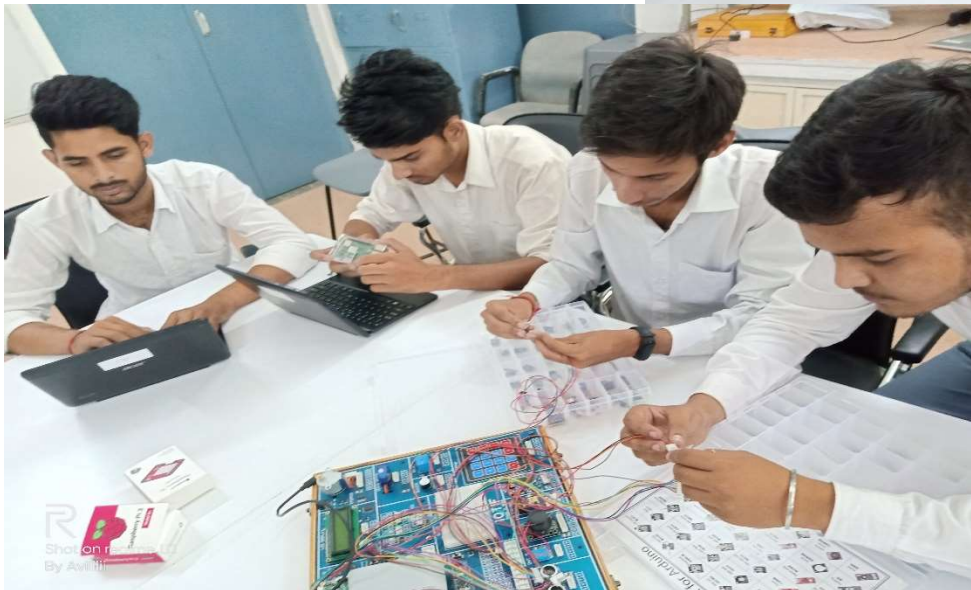


YEAR	PLANNED CREDITS IN B.VOC IOT			Students Enrolled
	SKILL	GENERAL	TOTAL	
YEAR 1	38	24	62	
YEAR 2	40	24	64	52
YEAR 3	36	24	60	31
TOTAL	114	72	186	
TOTAL IN PERCENTAGE	61.3%	38.8%		



B.Voc in Internet of Things

Project Development By Students



B.Voc in Internet of Things

IoT Lab Infrastructure



B.Voc in Internet of Things

MOUs and Internship Partners

Established MOU



Internship Partners



Touch **TECHNO**

B.Voc in Internet of Things

Important Applications aligning to six sigma QsVs



Everyday things



Agriculture automation



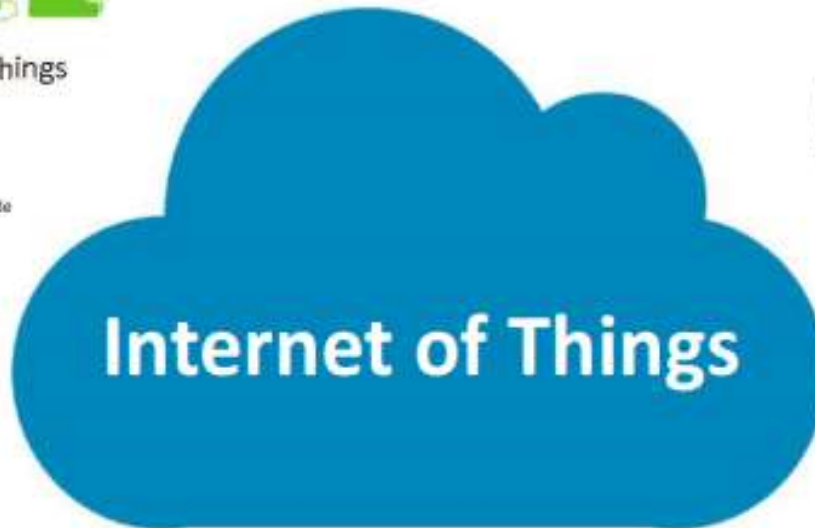
Embedded mobile



M2M wireless Sensor network



Building management



Internet of Things

Everyday things get connected  for smarter tomorrow



Energy consumption



Security & Surveillance



Vehicle, asset, person & pet monitoring & controlling



Smart homes & cities



Telemedicine & Healthcare

**Bachelor of Vocation
in
Renewable Energy**

Graduate Programme

The faculty offers a bachelor's programme in Renewable Energy Technologies (B.Voc. RE). The following broad based engineering skills are built up in graduates

- 1) **Solar Photovoltaics: Installation, Operation and Maintenance**
- 2) **Wind Energy Conversion system: Installation and Operation**
- 3) **Solar Thermal system: Installation, Operation and Maintenance**
- 4) **Biomass and Biogas: Operation and Maintenance**

Post-Graduate Programme

The faculty offers a Master's programme in Renewable Energy technologies, designed to inculcate the "systems" way of thinking among the students and enhance their technological skills in Renewable energy area.

B.Voc in Renewable Energy

Skills Specialization/
Job Roles

Year 1	Year 2	Year 3
SPV Technologies and System Design (Sem I)	Maintenance of SPV and Energy Storage System (Sem III)	Solar Thermal and Power System Control (Sem V)
SPV Installation and Renewable Energy Technologies (Sem II)	Wind Energy and Power Converters (Sem IV)	Micro grid and Biomass (Sem VI)



B.Voc in Renewable Energy

Laboratories

The faculty has several well-equipped laboratories

- SPV fabrication
- Solar Installation and Maintenance
- Solar Thermal
- Biomass and Biogas
- Renewable Energy Lab
- Wind Energy Lab
- Energy Storage Lab
- Electrical Machines
- Analog and Power Electronics Lab
- Microprocessor and Microcontroller Lab

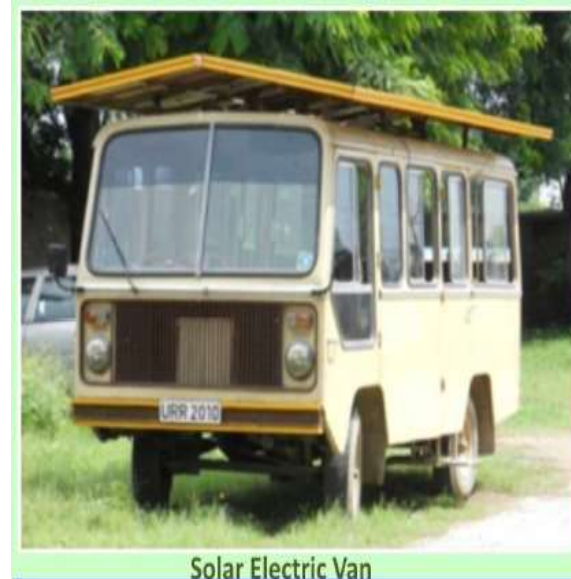


B.Voc in Renewable Energy

Achievements



Students Receiving 'Best Solar Skill Training Institution' trophy



Solar Electric Van

Industry Partners

M/s E-Sharp Solar solution Pvt. Ltd, Delhi

M/s Exsol Energy systems Pvt. Ltd, Delhi


M/s Aarat Power controls, New Delhi

**Bachelor of Vocation
in
Dairy Technology**

B. Voc. in Dairy Technology since session 2015-16

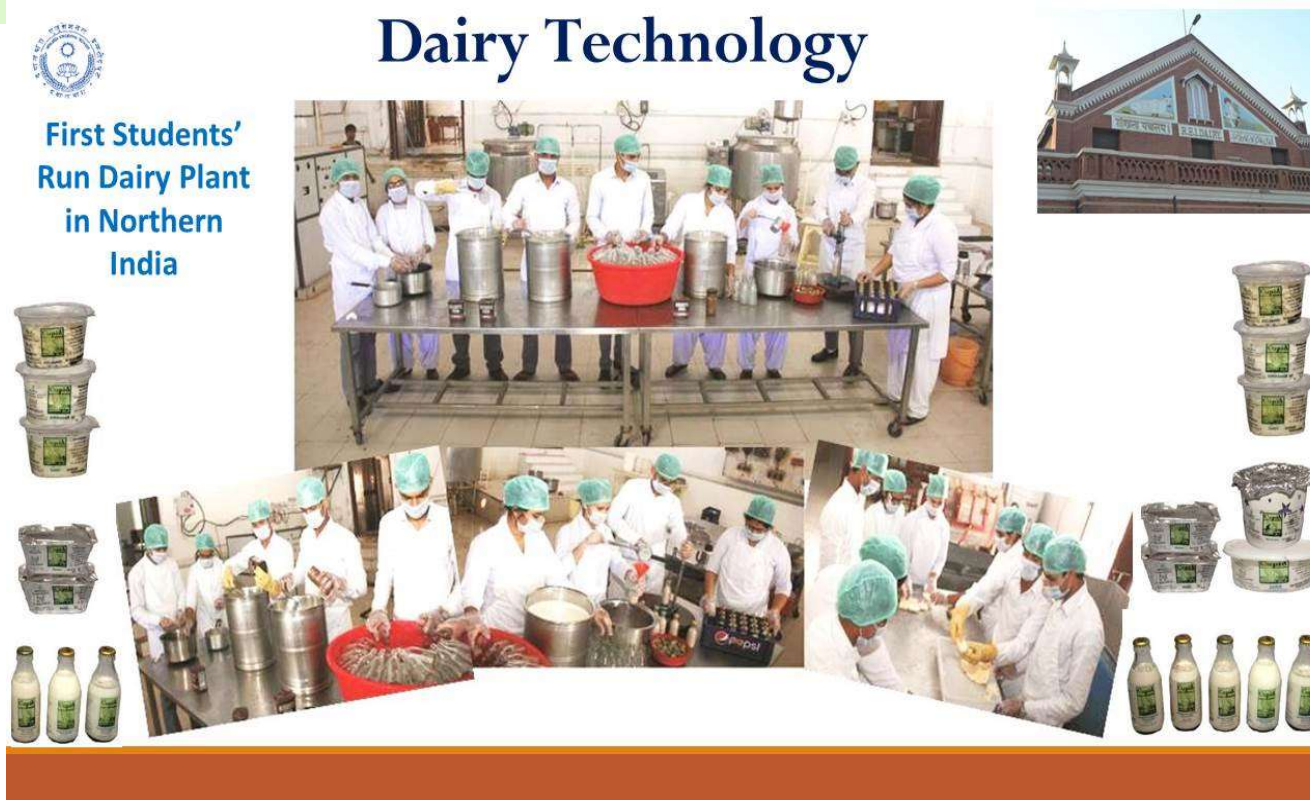
M. Voc. in Dairy Technology since session 2016-17

PhD. in Dairy Technology since session 2016-17



Dairy Technology

First Students' Run Dairy Plant in Northern India



The collage features a central photograph of students in a laboratory setting, surrounded by smaller images of dairy products and a building. The products include stacks of curries, buttermilk, and bottles of milk. The building in the top right corner has a clock tower and is likely the institution's main building.

- **These Programmes blend broad based general education with specific job roles.**
- **They impart skills in the areas of Dairy Farming, Dairy Technology, Dairy Microbiology, Dairy Chemistry, Dairy Management and Dairy Engineering are imparted through 40% theory and 60% hands on experience using state-of-the-art laboratories/facilities.**
- **They provide Industrial exposure through Industrial Internships, and Entrepreneurship.**
- **They aim to develop entrepreneurs who would contribute in accelerating India's economy as also disseminating knowledge.**
- **On successful completion of the programme one can take up any of the following: Dairy Entrepreneurship, Dairy Technologist, Dairy Chemist, Quality control expert, Dairy Business Analyst, Dairy Farm Manager**

First Students' Run Dairy Plant in Northern India

- The Dairy plant receives pure organic cow milk from Dayalbagh Gaushala which is utilized for the regular production of a variety of dairy products including **Flavoured Milk, Shrikhand, Kalakand, Basundhi, Misti Dahi, Salted butter, Probiotic Yoghurt, chocolates, etc..**
- The products are being made under hygienic conditions and have good nutritional value. They are free from artificial flavours, artificial colours, and preservatives. Only natural ingredients are used for flavouring and they also have less fat and less sugar so that they can be consumed on regular basis..
- **In the entire Northern India, DEI is privileged to have the first students' run mini dairy plant with FASSAI License, HACCP certification, export permit from Export Inspection Agency, Govt. of India and commercial permit from US Department of Agriculture for the import of flavoured milk and butter from DEI.**

B.Voc in Dairy Technology

Automation in Dairy Plant

Automatic Bottle Filling Machine



Automatic Crown Capping Machine



Automatic Bottle Washing Machine



B.Voc in Dairy Technology

Certifications in Dairy Plant

U.S. DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE VETERINARY SERVICES RIVERDALE, MARYLAND 20737 file:///D:/Htdoc/ViewWord/Eperm/imagel/		PERMIT NUMBER C-130636 Commercial	
UNITED STATES VETERINARY PERMIT FOR IMPORTATION AND TRANSPORTATION OF CONTROLLED MATERIALS AND ORGANISMS AND VECTORS		DATE ISSUED 05/19/2017	DATE EXPIRES 05/19/2018
NAME AND ADDRESS OF SHIPPER(S) Dayalbagh Educational Institute Director, Dayalbagh Educational Institute Dayalbagh Agra, U.P. 282 003 INDIA		CC: Service Center, CA (Sacramento, CA)	
NAME AND ADDRESS OF PERMITTEE INCLUDING ZIP CODE AND TELEPHONE NUMBER Mr. Preetham Tadiparthi 1922 Barossa Dr. San Ramon, California 94582 408-250-3431 / 408-242-5471		U.S. PORT(S) OF ARRIVAL LOS ANGELES, CA OAKLAND, CA SAN FRANCISCO, CA SEATTLE, WA	
		MODE OF TRANSPORTATION AIR	

AS REQUESTED IN YOUR APPLICATION, YOU ARE AUTHORIZED TO IMPORT OR TRANSPORT THE FOLLOWING MATERIALS:

Pasteurized milk - (bovine origin)

Department of Food Safety and Drug Administration
 Government of Uttar Pradesh

Uttar Pradesh
 License
 Under
 Food Safety and Standards act 2006
 (See Regulation 2.1.4(6))

अनुमति संख्या / License Number: 12716001000359

- अनुमतिप्राप्त की पंजीकृत इकाई का नाम और पता / Name & Registered Office Address of Licensee: DAIRY TECHNOLOGY- DDU KAUSHAL KENDRA DAYALBAGH EDUCATIONAL INSTITUTE Dayalbagh Agra, Agra (Uttar Pradesh) - 282005
- प्राप्त परिसर का पता / Address of Authorized Premises: Dayalbagh Agra, HARIPARBAT ZONE, Agra(Uttar Pradesh)-282005
- कारोबार का प्रकार / Kind of Business: Manufacturer
- इसकी व्यापार विवरण के लिए स्थान के पते और दूध की क्षमता (एम सी सी) / थोक के साथ दूध शीतलक केन्द्र (बी एम सी) / दूध प्रसंस्करण / यूनिट दूध पैकेजिंग यूनिट द्वारा स्वामित्व / अर सी के अनुमति धारक For dairy business details of location with address and capacity of Milk Chilling Centers (MCC)/Bulk Milk Cooling Centers (BMCCs)/Milk Processing Units/Milk Packaging Unit owned by the holder of licensee/RC: Yes

वी एम सी / एम सी सी / दूध प्रसंस्करण / यूनिट दूध पैकेजिंग यूनिट का विवरण
 Detail(s) of BMCCs/MCCs/Milk Processing Unit/Milk Packaging Unit :
 Please refer to annexure for details.

अनुमति का वर्ग / Category of License: State

यह अनुमति खाद्य संरक्षण और मानक अधिनियम, 2006 के अधीन अनुदत्त की गई और यह अधिनियम के उपबंधों के अध्यादेश है जिनका अनुमतिप्राप्त द्वारा अंतर्ग्रहण किया जाता चाहिए / This license is granted under and is subject to the provisions of FSS Act, 2006 all of which must be complied with by the licensee.

स्थान / Place : Agra
 दिनांक / Date : 01/04/2016

अभिहित अधिकारी
 खाद्य नुस्खा एवं भोजन प्रशासन
 Stamp and signature of the authorized officer

अ. सं. और मा. अंति., 2006 के अधीन राज्य अनुमति अधिकारी
 State Licensing Authority under FSSA, 2006

CERTIFICATE OF REGISTRATION

Dairy Technology DDU - Kaushal Kendra, Dayalbagh Educational Institute

Located at

REGD. OFFICE: DAYALBAGH, AGRA - 282005, UTTAR PRADESH, INDIA

has been assessed and found to be conforming with the requirements of

CODEX-HACCP

(Hazard Analysis Critical Control Point)

for the following scope of registration

"MANUFACTURING OF FLAVOURED MILK, BUTTERMILK, LASSI, YOGURT AND A VARIETY OF DAIRY PRODUCTS"

This quality system registration is included in QSRI Directory of registered firms and applies to the production of goods and/or services as specified in the scope of registration from the address (es) shown above. By issuance of this certificate the firm represents that it will maintain its registration in accordance with the applicable requirements. This certificate is not transferable and remains the property of MAP CERTIFICATIONS PVT.LTD. & shall be renewed immediately upon request.

Certificate Number: M/IN-HD195019

This certificate is valid from April 08, 2019 until April 07, 2020

Initial Certification Date : April 08, 2019
 Current Issue Date : April 08, 2019
 First Surveillance Due on : April 07, 2020
 Second Surveillance Due on : April 07, 2021
 Certification Valid Until : April 07, 2022



MAP CERTIFICATIONS PVT. LTD.
 India Office: 1/855, Sector-1, Vasundhara, Ghaziabad - 201012, Uttar Pradesh, India.
 International office: 34 FRASERWOOD ROAD, THORNHILL, ONTARIO, L4J 9C4 CANADA
 Web address www.mapcert.in

GRAMS: विकसित शिपमेंट क्वालिटी
 Website : www.sicindia.gov.in
 E-mail : sic-delhi@sicindia.gov.in
 Fax : 2362 6328
 दूरभाष फोन : 2362 6323
 2362 6324
 2362 6325/27



निर्यात निरीक्षण अभिकरण - दिल्ली EXPORT INSPECTION AGENCY-DELHI

(राज्य एवं उपरिष्ठ मंत्रालय, भारत सरकार)
 (Ministry of Commerce & Industry, Govt. of India)
 ठाकुर बापु स्मारक सदन, दूसरी मंजिल,
 Thakkar Bapu Smarak Sadan, 2nd floor
 डॉ. अम्बेडकर मार्ग, (लिंक रोड), नई दिल्ली - 110055
 Dr Ambedkar Marg, (Link Road), New Delhi - 110 055

EIA/DEL/MP/ 21

13.04.2016

To,

Dr K Srinivas
 Coordinator, Dairy Technology
 Dayalbagh Educational Institute (Deemed University),
 Dayalbagh, Agra
 UP 282005

Subject : Request for permission to export dairy products on non-commercial basis to the counter parts /centres

Dear Sir,

This refers to your letter no. ADMN/APPR/DT-1 dated 18.03.2016 on the subject matter.

In the above context, reference is drawn to the gazette notification SO 2719 dated 28th Nov 2000 subjecting Milk Products to quality control and inspection prior to export. Clause no 15 of the said notification is reproduced as under:

"Nothing in this order shall apply to the export by land or sea or air of bonafide samples of milk products to prospective buyer, the value of which shall not exceed permissible limits as laid down in esim policy from time to time and where no such provisions exist, the value limit of free samples shall not exceed Rs 10,000/-"

Copy of the notification is also enclosed for ready reference in order to enable you to take necessary action in the matter.

Yours sincerely,

(Wasi Asghar)
 Assistant Director (T)

A state-of-the-art Food and Dairy Testing Lab has been setup for quality assurance of food and dairy products as per the FSSAI standards. It has facilities for chemical analysis, microbial analysis and Instrumentation testing.



B.Voc in Dairy Technology

Programmes Ensure
Emphasis on Sigma 6Q
and Inculcation of
Values

- The students are trained to produce nutritionally beneficial dairy products, processed and packaged hygienically.
- They are also trained in quality control testing, food safety and quality assurance.
- They serve as our ambassadors in the society for spreading the message of ethical and value based business models.
- **Through these programmes DEI and its students would also contribute to the “White Revolution” and “Make in India” initiatives of the country.**

B.Voc in Dairy Technology

MOUs with Academia and Industries



**Radhasoami
Satsang Sabha
Gaushala,
Dayalbagh, Agra**

**D.E.I. MoU with
National Dairy
Research Institute
Karnal**

MoUs with some of the pioneers in Dairy Industry and Dairy Research Institutions are in place to provide industrial training and exposure to cutting edge research/technologies.



- **Jaipur Zila Dugdh Utpadak Sahkari Sangh Ltd. (an ISO 9000 and IS 15000 (HACCP) Organization), Jaipur (Jaipur Dairy)**
- **Desh Ratna Dr. Rajendra Prasad Dugdh Utpadak Sahkari Sangh Ltd. , Bharauni, Bihar**
- **Tirhut Dugdh Utpadak Sahkari Sangh Ltd. Muzaffarpur Dairy, Muzaffarpur**

B.Voc in Dairy Technology

MOUs with Academia and Industries



- **Bhole Baba Dairy Industries (Factories at Aligarh and Mathura)**
- **Dinshaw's Dairy Foods Pvt. Ltd., Nagpur**
- **Ved Engineers Pvt. Ltd., Noida**
- **Modi Dairy Farm, Jasidih, District Deogarh Jharkhand**
- **Pavitra Milk Products, Gurgaon**
- **New Era Dairy Engineers (India) Pvt. Ltd., Noida**
- **National Dairy, Pipal Mandi, Agra**

MoUs with more Dairy Industries are in Pipeline

B.Voc in Dairy Technology

Placements and Higher Education

Placement Statistics	1st Batch	2nd Batch
Industry	30	26
Related Family Business	nil	8

Higher Education Statistics	1st Batch	2nd Batch
Entry into PG Programmes	12	6

- To evolve a completely automated Dairy Plant with sensors and instrumentation for precise operations, high reliability , safety, with real-time remote monitoring and control.
- To reach out to remote parts of the country where DEI ICT Centres are available, setup dairy plants & labs, and provide quality vocational programmes at affordable cost and contribute to the National Mission on skilling and promoting entrepreneurship on a large scale in an accelerated mode.
- To provide international exposure and entrepreneurial opportunities to students across the country/Globe.

**Bachelor of Vocation
in
Agriculture Technology**

B.Voc (Bachelor of Vocational Degree) in Agriculture Technology

- ❖ Agricultural technology refers to use of technology, including machines, devices, sensors, and information technology for the production of food, fibre, and fuel etc.

Agricultural Activities of the Department



- ❖ Initially human being was hunter gatherer and leading an aboriginal life. He was completely dependent on wild resources for his food, shelter and to cover his body.
- ❖ Afterwards, he begin to select some of the species perhaps initially on the basis of taste and then on the basis of nutritional qualities through trial and error method. Thus he recognized our present day food and other useful crops.
- ❖ During course of evolution he begin to domesticate some identified species growing naturally in his surroundings and begins to lead a settled life.
- ❖ Agriculture is perhaps the most important discovery of human history.
- ❖ Agriculture is the combination of science and art, practiced for cultivation of plants and rearing of livestock to sustain human life.

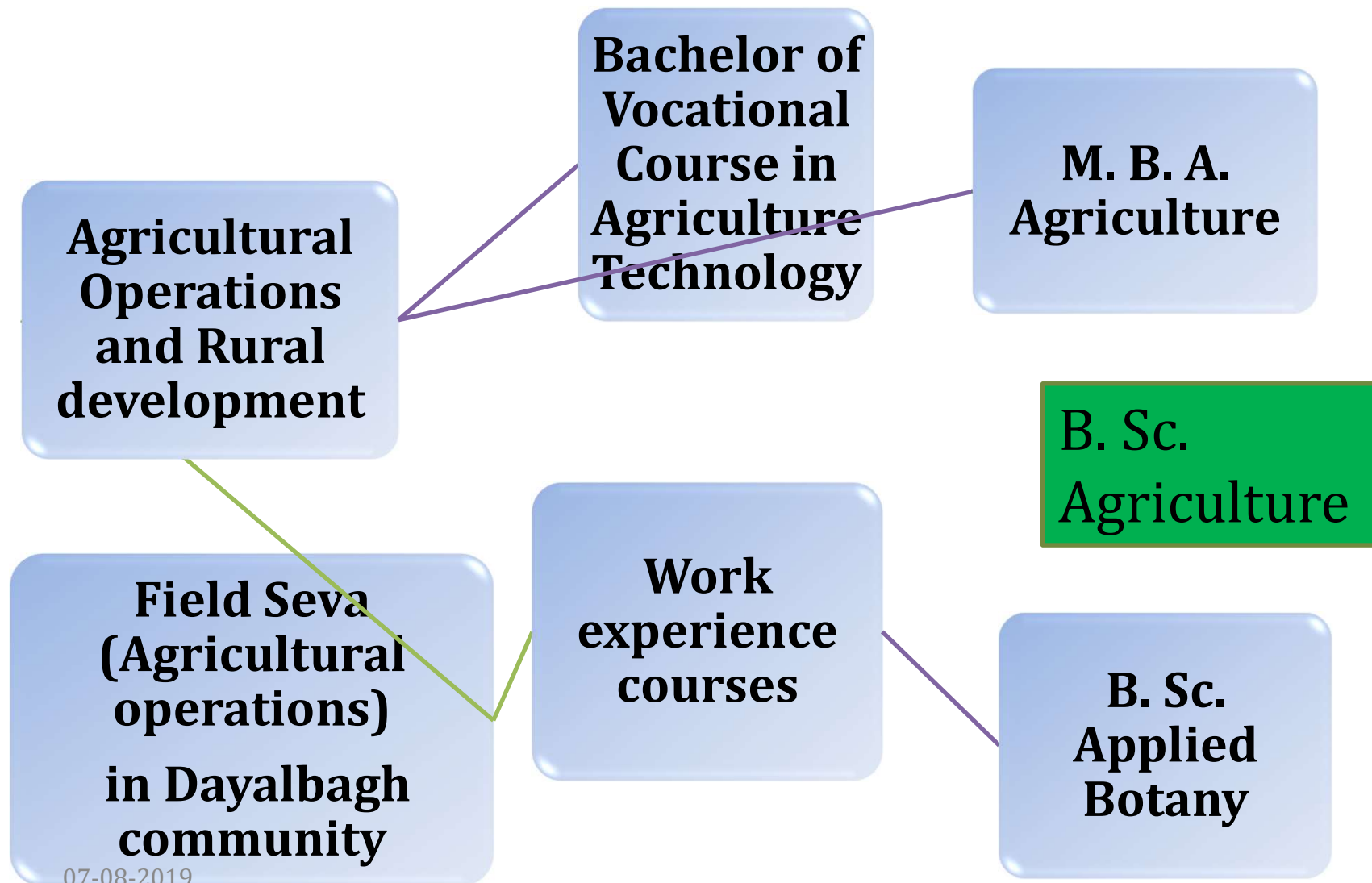
B.Voc. in Agriculture Technology

- ❖ Agriculture not only fulfill our food and other requirements but also help in the development of six 'H's in the personality traits of the human being i.e. better **Head**, better **Hand**, better **Heart**, better **Health**, better **Home**, and feeling of **Humility**.
- ❖ As for as Agriculture in Dayalbagh community is concerned the Spiritual Leaders of the Radhasoami Faith have attached great importance to agriculture as it serves to achieve multiple objectives. Detail history and Dayalbagh agriculture model will provided by other speakers in session 2.
- ❖ As for as Agriculture in Dayalbagh Educational Institute is concerned; the Education Policy of D.E.I. highlights the importance of Agriculture Operation as an essential element of the education system of the Institute.

B.Voc. in Agriculture Technology

- ❖ **Agricultural Operations and Rural development** are the credit based core courses compulsory for all students studying undergraduate courses irrespective of streams right from the inception of the Institute. Details will be provided by Prof. Satsangi in session 2.
- ❖ Besides, Institute is also offering credit based **work experience courses** like Modern crop production technology, Mushroom and *Spirulina* Cultivation Technology, Biofertilizer Technology, Maintenance of Botanical Garden etc.
- ❖ In order to produce skilled human resource in above mentioned as well as other Agricultural Technologies, **Bachelor of Vocational Degree in Agriculture Technology** was started in 2017 Under Deen Dayal Upadhyay Kaushal Vikash Yojana.

Development of Agricultural Education in DEI



- ❖ This is a three year degree course after Higher Secondary or Intermediate with multiple entry and exit points and continued exposure to industry.
- ❖ Students completing the first year get a Diploma certificate, after second year they get the Advanced Diploma certificate and after completion of three years, the B.Voc. Degree is awarded.
- ❖ The course curriculum has 40% general education (theory) and 60% vocational training (practical) components.
- ❖ The students who have enrolled in B.Voc courses appreciate the practical focus and are confident that their chances of getting a suitable job are higher than other graduates.

- ❖ To develop manpower having blend of skills related to appropriate practical as well as theoretical knowledge about various Agricultural Technologies.
- ❖ To ensure that the students have adequate knowledge and skills, so that they are able to work competently at each exit point of the programme.
- ❖ To integrate National Skill Quality Framework within the undergraduate level of higher education in order to enhance employability of the graduates and meet industry requirements.

B.Voc. in Agriculture Technology

Carrier opportunities

Course Duration	Certificate/ Diploma/ Degree	Job Designation
6 Month	Certificate in Agriculture Technology	Field Supervisor
12 Month	Diploma in Agriculture Technology	Agricultural Assistant
24 Months	Advance Diploma in Agriculture Technology	Agriculture farm manager / Master Technician / Consultant/ Entrepreneur
36 months	Bachelor of Vocational Degree in Agriculture Technology	Agricultural Engineer / Consultant / Entrepreneur

- ❖ M/s Saveer Biotech Ltd., Greater Noida, U.P.**
- ❖ Zestha Developers Limited, Noida, U.P.**
- ❖ Sriram Nursery, Agra**
- ❖ Azad Nursery, Agra**

B.Voc. in Agriculture Technology

Detail of students enrolled in the course

Academic year	Number of students admitted	Number of students promoted to second year	Number of students who left the course	Number of students promoted to second year
2017-18	37	34	2	1
2018-19	60	-	-	-

**Bachelor of Vocation
in
Greenhouse Technology**

New Generation Greenhouses: The DEI Concept

B.Voc. in Greenhouse Technology

Focus Areas

- **Greenhouses with Multi-Climatic Zones**
- **Greenhouse Farming Methods**
 - **Vertical Farming: efficient use of horizontal and vertical space**
 - **Hydroponics**
 - **Aeroponics**
 - **Fogponics**



Multiple Climate Zones

Top Level	Fogponics
Second Level	Aeroponics
First level	Hydroponics
Ground Level	Land

B.Voc. in Greenhouse Technology

Greenhouses at Dairy Campus, DEI



- **Current Cladding materials as PVC, PC etc. are neither environment friendly nor energy efficient**
- **To be replaced by Thin-film, transparent solar photovoltaic material: energy producing and environment friendly**

B.Voc. in Greenhouse Technology

Cherry Tomato Cultivation at Greenhouse, DEI



- **Foggers for maintaining required humidity**
- **Use of Sensors (Soil moisture & temperature, ambient humidity & temperature)**
- **High Yield**

B.Voc. in Greenhouse Technology

Crops Grown in Greenhouse at DEI



Tomato Himsona



Cherry Tomato



French Cucumber

- **Optimum utilization of space**
- **Multiple crops and high yield**
- **Faster plant growth: use of artificial light**
- **Exotic and precision farming**
- **Uses less water which can be recycled**

- Reinforced Bamboo Concrete pillar structure in place of galvanised steel (Reduced setup cost)
- Walls & Roof skeleton of Bamboo
- Bamboo has better Tensile strength than steel
- Easy availability of Bamboo and could be grown locally
- Environment Friendly

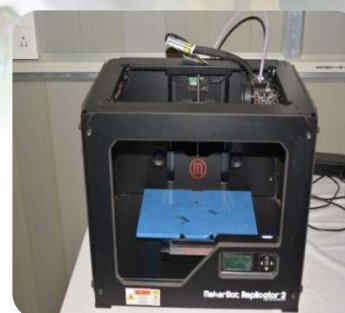
**Bachelor of Vocation
in
DIGITAL MANUFACTURING**

B. Voc. DIGITAL MANUFACTURING

A Step Towards BHARAT MAKES *(The Next Era of Growth and Innovation)*

AVAILABLE RESOURCES

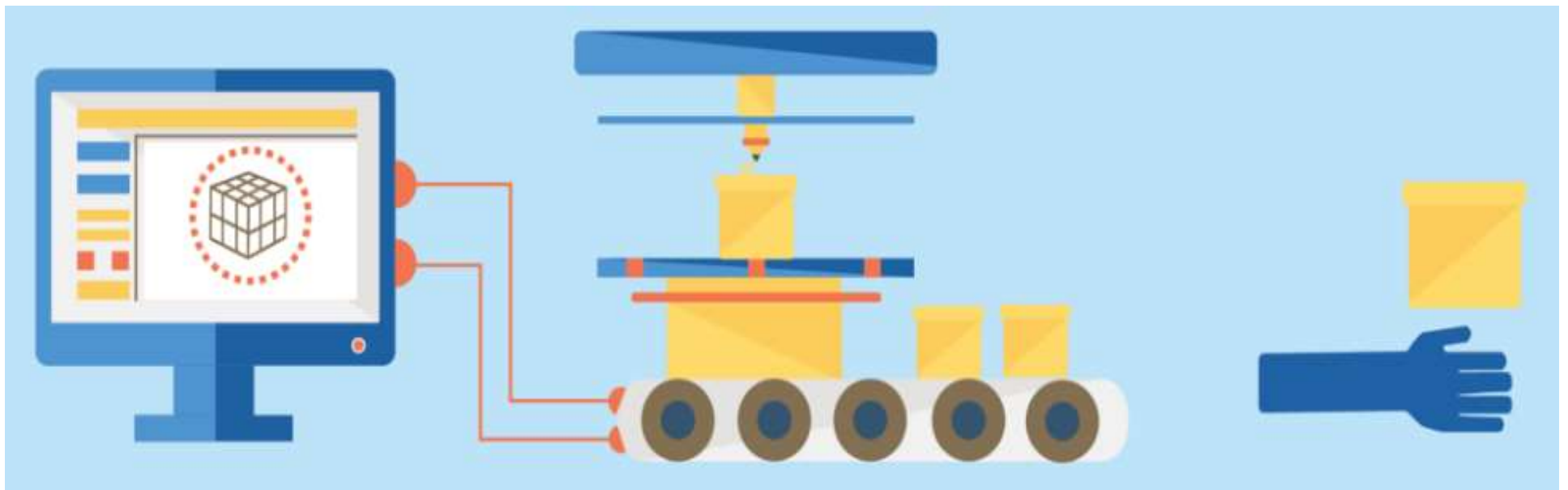
- ✓ Additive Manufacturing (3D Printing) facility is established.
- ✓ Equipment worth Rs. 1.6 Crore in place.
- ✓ DEI has well-qualified and dedicated staff.
- ✓ DEI also has a tie-up with MSME and other industries.



B. Voc. DIGITAL MANUFACTURING

WHAT IS DIGITAL MANUFACTURING ?

Digital Manufacturing is the **fastest** and **easiest** way to transform a concept into a reality.

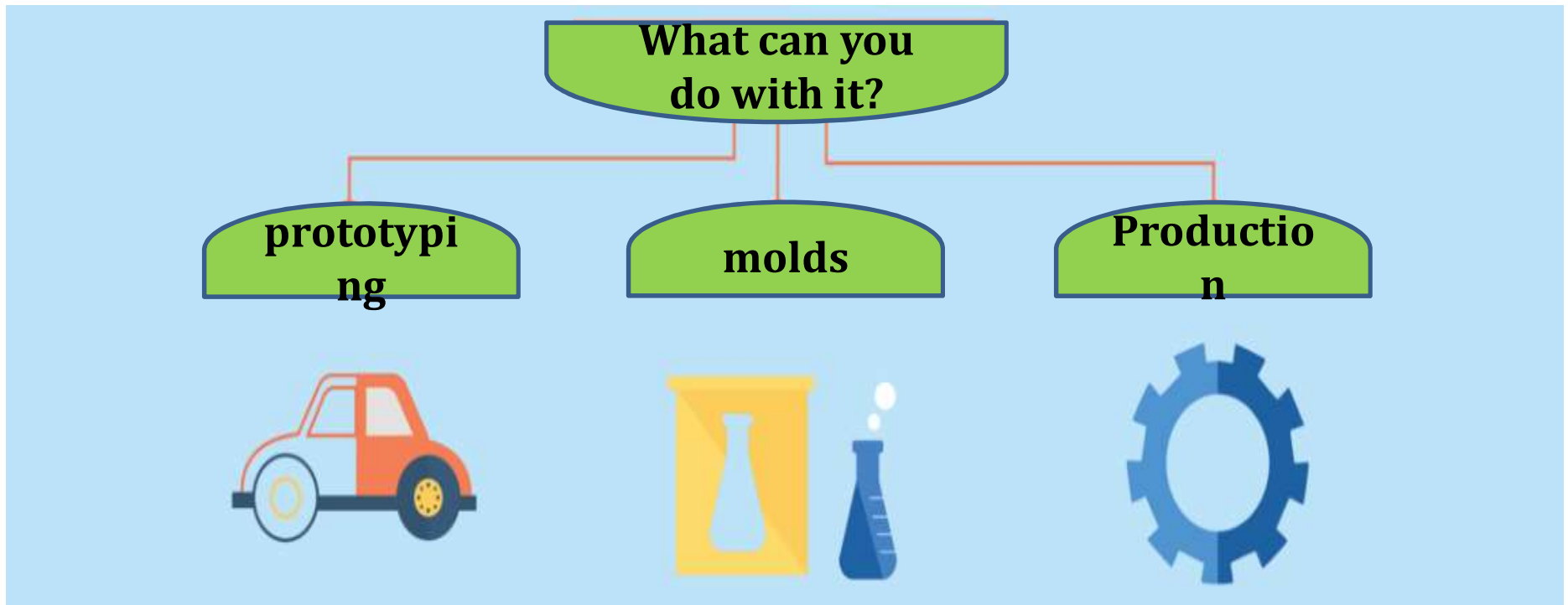


You design with CAD

#The machine executes

#You receive your part

B. Voc. DIGITAL MANUFACTURING



B. Voc. DIGITAL MANUFACTURING

Three Key Digital Manufacturing Technologies:



ADDITIVE MANUFACTURING, often called 3D printing, consists in fabricating an object one layer after the other it covers various technologies.



LASER CUTTING, is a digital subtractive fabrication technique. It consists in cutting or engraving (like metal, wood, cardboard....) by means of a laser.

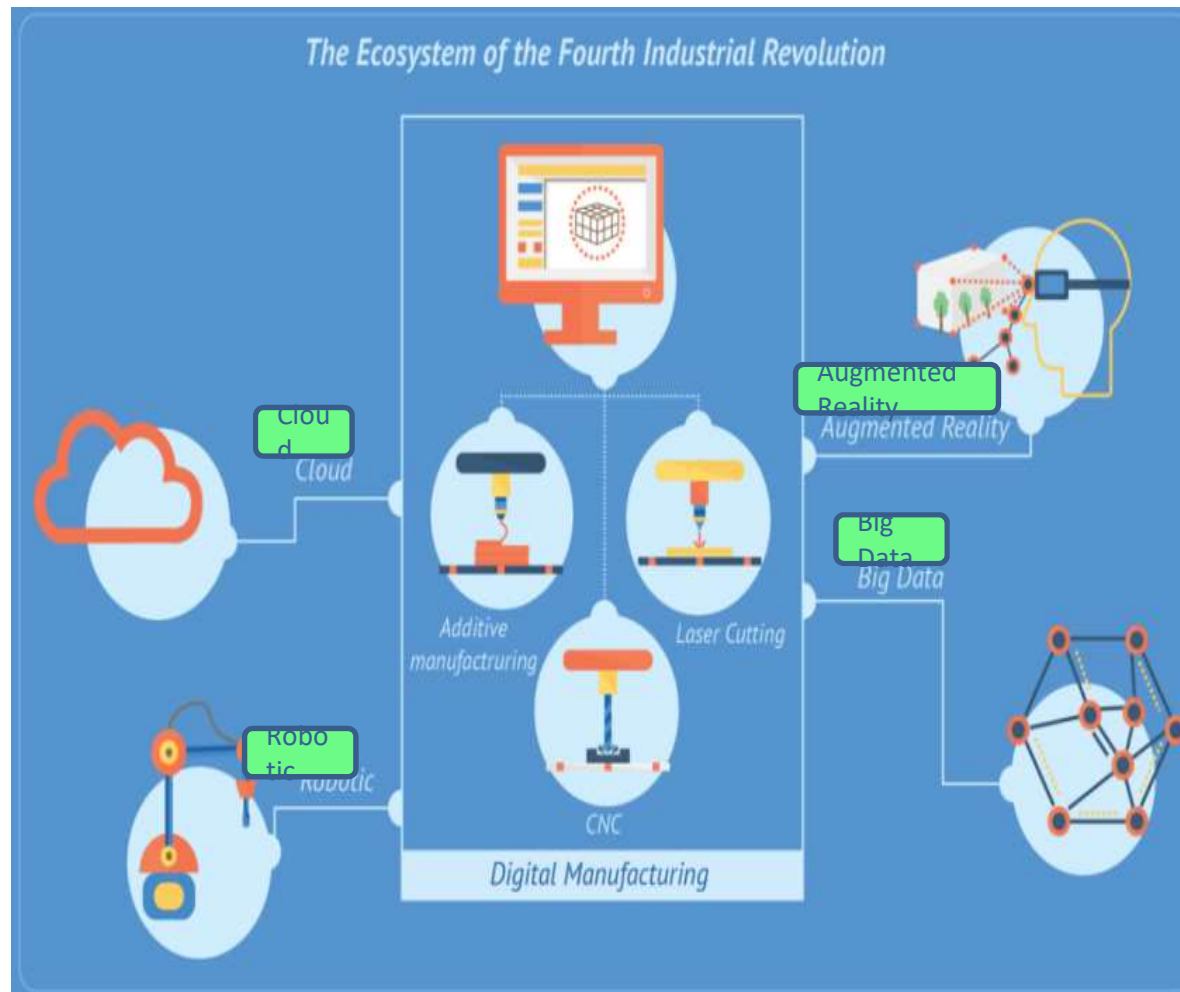


CNC, (Computer Numerical Control) is a Subtractive manufacturing process where a computer controls the cutting and shaping of parts (typically, metal).

B. Voc. DIGITAL MANUFACTURING

Context

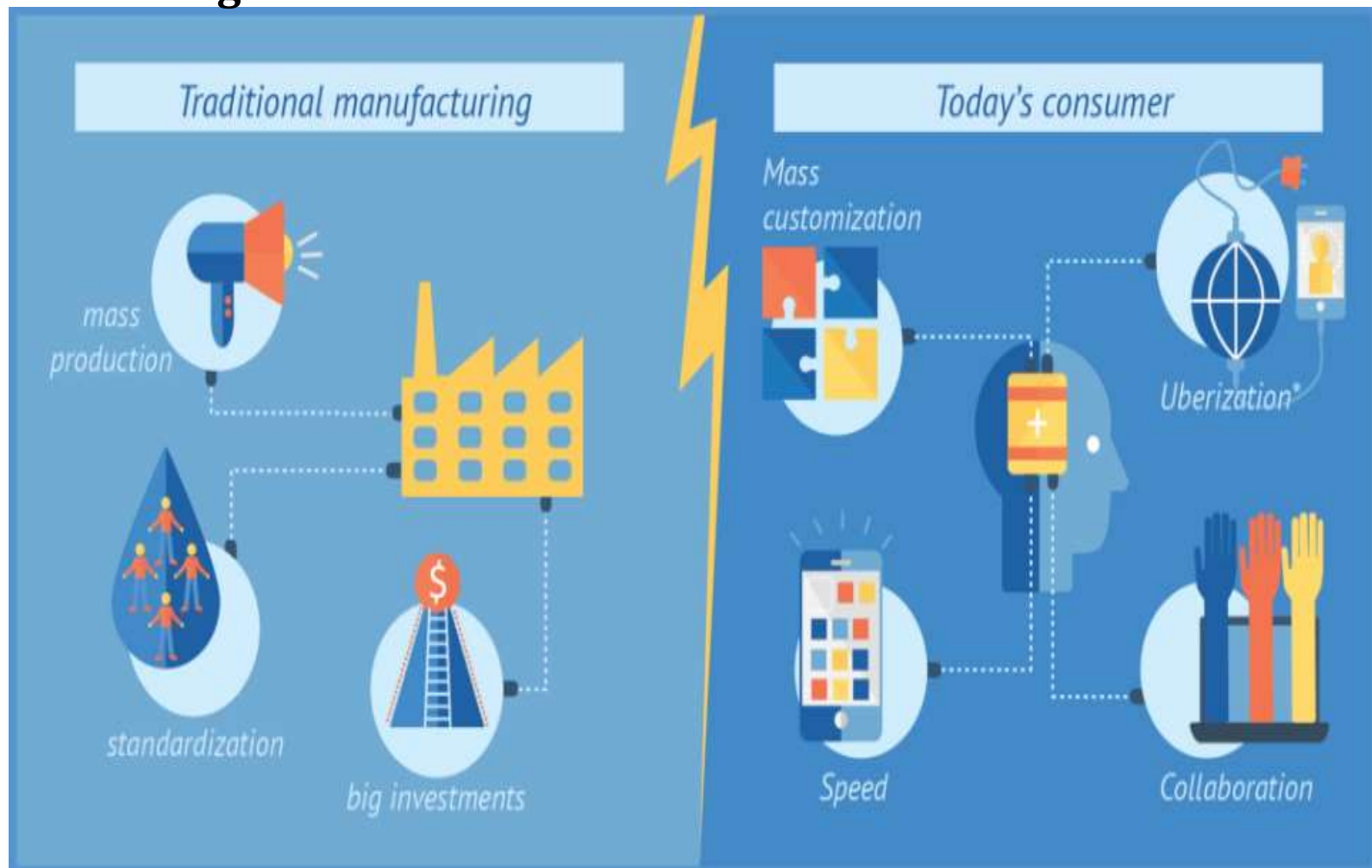
Digital Manufacturing belongs to a much larger trend known as the **Fourth Industrial Revolution**, which combines CAD design, digital manufacturing, robotics, sensors & data and analytics to **redefine industrial production**



B. Voc. DIGITAL MANUFACTURING

Context

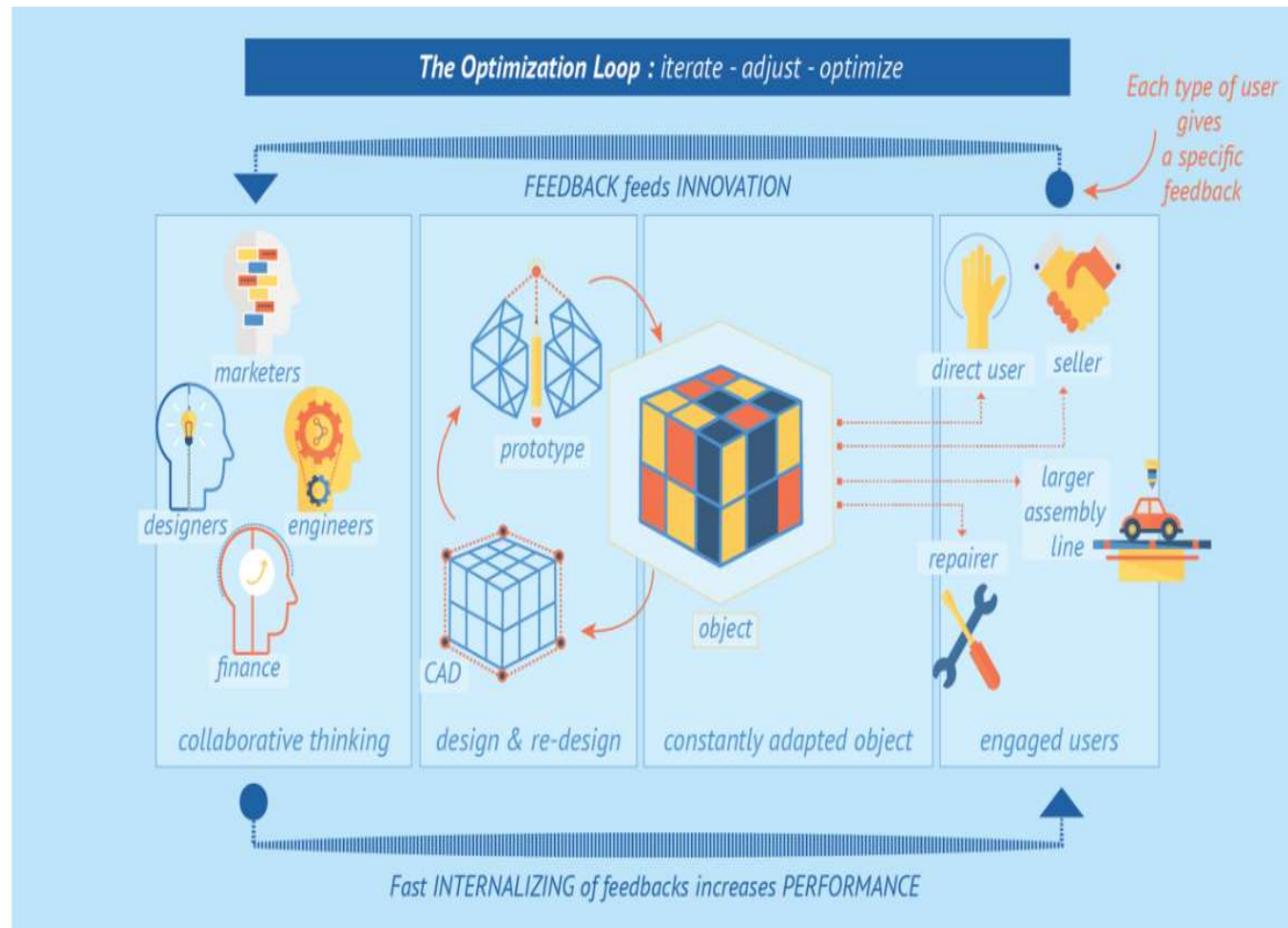
- ✓ Consumption is changing and production with it.
- ✓ The needs of today's consumers are not satisfied by traditional manufacturing.



B. Voc. DIGITAL MANUFACTURING

Context

Digital Manufacturing enables **perpetual feedback**, from every actor, at every step of your clients demands an **adaptative product**. Because small production runs are fast and inexpensive ,products continuously **evolve** and **adapt** **Loyalty**



B. Voc. DIGITAL MANUFACTURING

CNC Machines



B. Voc. DIGITAL MANUFACTURING

Students working in
DEI FAB LAB on CNC
Machines



B. Voc. DIGITAL MANUFACTURING

Equipment:

- ❖ **Stratasys Fortus 400mc 3D Printer System - 355 x254 x254 mm**
- ❖ **Objet 30 Pro Desktop 3D Printer - 300 x 200 x150mm**
- ❖ **Mojo 3D Printer Desktop 3D Printer - 127 x 127 x127mm**
- ❖ **Makerbot Replicator 2 Desktop 3D Printer - 280 x150 x150mm**
- ❖ **Steinbichler COMET L3D 2M professional 3D scanner System**
- ❖ **CNC Machines**
- ❖ **Fully Equipped Mechanical Workshop**
- ❖ **Fully equipped Electronics workshop**

- ❖ **This course harnesses creativity and innovation and promotes do-it-yourself for obtaining optimal solutions.**
- ❖ **Makes students responsible and generates a sense that they can bring about change and make a difference to themselves and in society at large.**
- ❖ **Evolution of an idea to its application can be facilitated by the implementation of Digital Fabrication Laboratories, having digital tools for product development.**

B. Voc. DIGITAL MANUFACTURING

- **To promote multiple incubation facilities that will nurture and facilitate the entire 'idea-to-startup' activity.**
- **To provide mentorship to potential student entrepreneurs through industry support.**
- **Rural entrepreneurs wanting to transform a frugal innovation or a skill based practice into a high yield technology will be given preference.**
- **To organize university-wide competitions to promote the ideation process in the SIX domains are termed as "SIGMA SIX Q" within each existing mode of education (V/e – DEI – de):**
 - **Conventional Education;**
 - **Vocational Education; and**
- **Electronic / Distance Education**

B. Voc. DIGITAL MANUFACTURING

Capital Goods Skill Council - QP-NOS and Model Curriculum

Sub Sector	QP Code	Occupation	QP Name	NSQF Level
Machine Tools, Dies, Moulds and Press Tools, Plastics Manufacturing Machinery, Textile Manufacturing Machinery, Process Plant Machinery, Electrical and Power Machinery, Light Engineering Goods	CSC/Q011 5	Machining	CNC Operator - Turning	3
Machine Tools, Dies, Moulds and Press Tools, Plastics Manufacturing Machinery, Textile Manufacturing Machinery, Process Plant Machinery, Electrical and Power Machinery, Light Engineering Goods	CSC/Q012 0	Machining	CNC Setter cum operator Turning	4
	CSC/Q012 0	CNC Setter cum Operator - Turning	CNC Setter cum Operator - Turning	
Machine Tools, Dies, Moulds and Press Tools, Plastics Manufacturing Machinery, Textile Manufacturing Machinery, Process Plant Machinery, Electrical and Power Machinery, Light Engineering Goods	CSC/Q030 3	Fitting and Assembly	Fitter - Fabrication	3
Machine Tools, Dies, Moulds and Press Tools, Plastics Manufacturing Machinery, Textile Manufacturing Machinery, Process Plant Machinery, Electrical and Power Machinery, Light Engineering Goods	CSC/Q030 4	Fitting and Assembly	Fitter Mechanical Assembly	3
Machine Tools, Dies, Moulds and Press Tools, Plastics Manufacturing Machinery, Textile Manufacturing Machinery, Process Plant Machinery, Electrical and Power Machinery, Light Engineering Goods	CSC/Q030 5	Fitting and Assembly	Fitter Electrical and Electronic Assembly	3
Machine Tools, Dies, Moulds and Press Tools, Plastics Manufacturing Machinery, Textile Manufacturing Machinery, Process Plant Machinery, Electrical and Power Machinery, Light Engineering Goods	CSC/Q030 6	Fitting and Assembly	Tool and Die Maker	5
Machine Tools, Dies, Moulds and Press Tools, Plastics Manufacturing Machinery, Textile Manufacturing Machinery, Process Plant Machinery, Electrical and Power Machinery, Light Engineering Goods	CSC/Q040 1	Design	CNC Programmer	4
	CSC/Q040 1	CNC Programmer	CNC Programmer	
Machine Tools, Dies, Moulds and Press Tools, Plastics Manufacturing Machinery, Textile Manufacturing Machinery, Process Plant Machinery, Electrical and Power Machinery, Light Engineering Goods	CSC/Q040 2	Design	Draughtsman - Mechanical	4
Machine Tools, Dies, Moulds and Press Tools, Plastics Manufacturing Machinery, Textile Manufacturing Machinery, Process Plant Machinery, Electrical and Power Machinery, Light Engineering Goods	CSC/Q12 01	Shop Floor Management	Production Engineer	5
Manufacturing Machinery, Process Plant Machinery, Electrical and Power Machinery, Light Engineering Goods	1	Service	Installation	4

B. Voc. DIGITAL MANUFACTURING

Compliance to NSQF Levels

Production & Manufacturing	Turning	Machinist	MES	MAN701	
Production & Manufacturing	Milling	Machinist	MES	MAN703	
Production & Manufacturing	Grinding	Polisher	MES	MAN706	
Capital Goods	Quality Inspector – components	Quality Inspector – components	QP-NOS		CSC/ Q 0601
Capital Goods	Production Engineer	Production Engineer	QP-NOS		CSC/ Q 1201
Capital Goods	Design Engineers - (mechanical)	Design Engineers - (mechanical)	QP-NOS		CSC/ Q 0405
Capital Goods	Draughtsman- Mechanical	Draughtsman- Mechanical	QP-NOS		CSC/ Q 0402
Capital Goods	CNC Operator - Vertical Machining Centre	CNC Operator - Vertical Machining Centre	QP-NOS		CSC/ Q 0116
Capital Goods	CNC Setter cum Operator- Vertical Machining Centre	CNC Setter cum Operator- Vertical Machining Centre	QP-NOS		CSC/ Q 0123
Capital Goods	Machinist - Conventional Turning	Machinist - Conventional Turning	QP-NOS		CSC/ Q 0110
Capital Goods	Machinist - Conventional Milling	Machinist - Conventional Milling	QP-NOS		CSC/ Q 0108
Capital Goods	Grinder - Hand and Power tools	Grinder - Hand and Power tools	QP-NOS		CSC/ Q 0302
Capital Goods	CNC Setter cum Operator - Turning	CNC Setter cum Operator - Turning	QP-NOS		CSC/ Q 0120
Capital Goods	CNC Operator - Turning	CNC Operator - Turning	QP-NOS		CSC/ Q 0115
Capital Goods	Machinist - Conventional Surface Grinding Machines	Machinist - Conventional Surface Grinding Machines	QP-NOS		CSC/ Q 0109
Capital Goods	Service Engineer - Installation	Service Engineer - Installation	QP-NOS		CSC/ Q 0501
Capital Goods	Service Engineer – Installation & Commissioning	Service Engineer – Installation & Commissioning	QP-NOS		CSC/ Q 0404

B. Voc. DIGITAL MANUFACTURING

Compliance to NSQF Levels

Sector	Course Name	Job role(s) Covered	MES/ QPNOS	MES Code	QP-NOS Code
Production & Manufacturing	Turning	Turner	MES	MAN101	
Production & Manufacturing	Advance Turning	Advance Turner	MES	MAN202	
Production & Manufacturing	Milling	Milling Operator	MES	MAN103	
Production & Manufacturing	Advance Milling	Advance Miller	MES	MAN204	
Production & Manufacturing	Surface Grinding	Polisher	MES	MAN105	
Production & Manufacturing	Cylindrical Grinding	Polisher	MES	MAN206	
Production & Manufacturing	CNC Turning	CNC Machinist	MES	MAN307	
Production & Manufacturing	CNC Milling	CNC Machinist	MES	MAN308	
Production & Manufacturing	Basics of Forging Technology & Process	Forging Operator	MES	MAN109	
Production & Manufacturing	Die Manufacturing Inspection of Die & Handling	Die Supervisor	MES	MAN210	
Production & Manufacturing	Advanced Forging Technology & Heat Treatment	Forging Supervisor	MES	MAN311	
Production & Manufacturing	Basic Mechanical Drafting	Draftsman	MES	MAN112	
Production & Manufacturing	Advanced Mechanical Drafting	CAD Designer	MES	MAN213	
CONSTRUCTION	3D Designer Using ProE	CAD Designer	MES	CON222	
CONSTRUCTION	3D ADVANCED Designer Using ProE	CAD Designer	MES	CON323	
MATERIAL MANAGEMENT	Assistant Storekeeper	Assistant Storekeeper	MES	MAM 104	

B. Voc. Digital Manufacturing

Compliance to NSQF Levels

Sector	Course Name	Job role(s) Covered	MES/ QPNOS	MES Code	QP-NOS Code
Capital Goods	Fitter – Fabrication	Fitter – Fabrication	QP-NOS		CSC/ Q 0106
Capital Goods	Maintenance fitter – Mechanical	Maintenance fitter – Mechanical	QP-NOS		CSC/ Q 0901
Capital Goods	CNC Programmer	CNC Programmer	QP-NOS		CSC/ Q 0401
Capital Goods	Service Engineer - Breakdown Service	Service Engineer - Breakdown Service	QP-NOS		CSC/ Q 0503
Capital Goods	Technician Instrumentation	Technician Instrumentation	QP-NOS		CSC/ Q 0802
Capital Goods	Calibration Technician	Calibration Technician	QP-NOS		CSC/ Q 0801
Capital Goods	CNC Operator Grinding Machine Centre	CNC Operator Grinding Machine Centre	QP-NOS		CSC/ Q 0117
Capital Goods	Fitter - Fabrication	Fitter - Fabrication	QP-NOS		CSC/ Q 0106
Capital Goods	Fitter - Mechanical Assembly	Fitter - Mechanical Assembly	QP-NOS		CSC/ Q 0115
Capital Goods	CNC lathe Programming & Operation for plastic industries (CNC-L) or Lathe Operator	CNC lathe Programming & Operation for plastic industries (CNC-L) or Lathe Operator	MES/ QPNOS	PLA703	ASC/Q1901
Capital Goods	CNC Operator	CNC Operator	QP-NOS		ASC/Q1903
Capital Goods	Fitter	Fitter			CSC/ Q 0102
Capital Goods	Tool & Die Maker	Tool & Die Maker	QP-NOS		CSC/ Q 0104

B. Voc. Digital Manufacturing

DDM – Industry Linkages

Direct Digital Manufacturing	CAPARO Jamshedpur	4
	AMTEK GROUP Jamshedpur	4
	HONDA MSL, Tapukara, India	4
	CROMPTON GREAVES, Raisen, M.P.	4
	KOTSONS Ltd., Agra,	4
	SRF Ltd., Gurgaon	4
	CADENSWORTH India Ltd	5

B. Voc. Digital Manufacturing

Crompton Greaves
Limited

Crompton Greaves Limited
Distribution Transformers Division (T2): Power Systems

Plot No. T1-T5, MPAKVN Industrial Area, District: Bhind, Matanpur 477 116, Madhya Pradesh, India
T: +91 7539 409 029 F: +91 7539 283 585



Smart solutions.
Strong relationships.

Ref: T2P/Appreciation letter/2015

Date: 15/05/2015

TO WHOMSOEVER IT MAY CONCERN

The Crompton Greaves Ltd. enthusiastically supports Dayalbagh Educational Institute's proposal for starting a course on Direct Digital Manufacturing (DDM) for education of students and training of industry employees. The development of such a facility in the area can play an important role to increasing the involvement of existing companies into innovative manufacturing techniques and will hopefully attract new companies to invest in this field.

We are excited to have the opportunity to contribute to this effort and support your university proposal to make this manufacturing initiative a great success. We look forward to expanding our partnership to support this new manufacturing opportunity to develop the highly skilled workforce needed to strengthen our regional economy.

DEI's initiative will align educational programs and curricula with the needs of industry partners in the additive manufacturing sectors and will engage the manufacturers in talent planning activities to ensure development of training opportunities to address specific talent development needs.

FOR CROMPTON GREAVES LTD.

Guru Charan Suri

Sr. Manager & Cluster Head, M.P.

Human Resource

Registered Office:
CG House, 6th Floor, Dr Annie Besant Road, Worli, Mumbai 400 030, India
T: +91 22 2423 7777 F: +91 22 2423 7733 W: www.cgglobal.com



AVANTHA
GROUP COMPANY

B. Voc. Digital Manufacturing

Cadensworth



Dear Sir,

We, Cadensworth (India) Limited endorse and support Dayabagh Educational Institute proposal for Skill Development Course on Direct Digital Manufacturing that will be used to build an Additive Manufacturing capability at DEI. Cadensworth, believes the award of the proposed program will provide the following benefits:


1. To Provide training and education resource in specific Additive Manufacturing technologies, fused deposition modeling and electronics printing, that are key to our industries growth.
2. To enable the commercialization of new product offerings manufactured by Cadensworth (India) Limited.
3. To help grow the Indian manufacturing base in support of domestic manufacturing, leading to improved competitiveness.

Should the proposed program be awarded, we, Cadensworth (India) Limited pledges support as a collaborating partner with DEI. Our company has the required R&D and engineering staffs that will provide technical expertise to maintain the equipment, develop curriculum, and advise student internship and projects.

Furthermore, growing DEI education activities in this area will enable Cadensworth to hire more staff and grow business while leveraging large company needs in addition.

Cadensworth (India) Limited is a committed local partner of DEI dedicated to supporting its mission to: "encourage excellence, diversity, and engaged learning by providing a contemporary and accessible education".

With Warm Regards,


Santosh M Nair
Sr. General Manager

Corporate Office: Cadensworth India Limited Manalakkshmi Building, 156 & 157, Village Road, Nanganbadam, Chennai-600 034.	Regd. Office: Cadensworth India Limited 375, Grandy House, No.35, Mount Road, Guindy, Chennai-600 032. CIN # U52352TN000291133014 Board # : 044 3023 0500, Fax # : 044 3023 0699 www.cadensworth.com
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B. Voc. Digital Manufacturing

Seeking help for getting Collaborators for KAUSHAL proposal on Digital Manufacturing

Manish Dua <manish.dua@honda2wheelersindia.com>

Thu, Mar 26, 2015 at 3:49 PM

To: rakesh mehta <rakeshm0806@gmail.com>

Cc: rahulswarup.sharma@gmail.com

Dear Dr. Rahul Swarup Sharma

In 2 wheeler market there is a stiff competition, lot of manufacturers have already come into the market and launching every year new models with higher fuel efficiency, better quality(Q) product with lesser Cost (C) and delivery (D) as soon as possible. For achieving all these QCD parameters company has to adopt some new very fast& effective methods like introducing Reliable CNC machines, Very advance machining which can produce better quality parts in a lesser cycle time & needs a new software like CAD , CAM , PRO E etc with the help of which we can design our product very fast.

In Honda motorcycle also we are using CNC Advance Machining and some usage of CAD CAM is also there so we can definitely help DEI in Designing the Course, Internship , and students will surely have extra edge in interview if he knows about the above subject.

Regards

Manish Dua
Asst. General Manager
Production Body division
09871795448

B. Voc. Digital Manufacturing

Kotsons Pvt. Limited



Date: 31/03/2015

TO WHOMSOEVER IT MAY CONCERN

This is to confirm that our Organization has been hiring the students passing out from various Vocational Courses offered by Dayalbagh Educational Institute for the past six years.

After reviewing the contents of Vocational Course on Digital Manufacturing (i.e. covering Advance Machining, CNC, CAD and 3D Printing) proposed by DEI, we find this course to be very useful, as largest workforce in India is required solely in the digital manufacturing domain.

Digital manufacturing is a new revolution and the lack of skilled personnel and the increasing gap between the supply and demand of well-skilled workers in digital manufacturing is acting as a major hurdle for India to emerge as a center of innovation.

We find the students joining us have very good skills in the related course and are useful to our Organization.

Students graduating in Digital Manufacturing course will be useful to us and we will be happy to hire them. We plan to keep considering the students of Dayalbagh Educational Institute for hiring in our Organization in future too.



For KOTSONS PVT. LTD.
For KOTSONS PRIVATE LTD.

Authorized Signatory
MANAGER HR

B. Voc. Digital Manufacturing

1	Jyothy Labs	OBJET 30	Polyjet	05-09-2011
2	Cadensworth India Ltd	CONNEX 350	Polyjet	09-09-2011
3	Cadensworth India Ltd	OBJET 30	Polyjet	09-03-2011
4	Vestas	CONNEX 500	Polyjet	8-09-2011
5	Bray Technical Services	OBJET 30	Polyjet	11-10-2011
6	Hero Moto Corp	OBJET 30	Polyjet	16/11/2011
7	Protostar	OBJET 30	Polyjet	17-04-2013
8	Bhoomareddi College of Engineering	OBJET 30	Polyjet	07-12-2012
9	Polymedicure Ltd	OBJET 30 Pro	Polyjet	06-09-2012
10	Padmini	OBJET 24	Polyjet	19-09-2012
11	General Motors	Eden 500 V	Polyjet	27-09-2012
12	IISC	Connex 260	Polyjet	22-10-2012
13	IISC	Eden 500V	Polyjet	19/10/12
14	Pink City	OBJET 30	Polyjet	09-11-2012
15	Honda	Eden 500V	Polyjet	20-12-2012
16	3M	Connex 350	Polyjet	18-01-2013
17	CIPET	Eden 350V	Polyjet	19-03-2013
18	School of Engineering, IIT Mandi	Objet 24	Polyjet	03-04-2013
19	IIT Kharagpur	OBJET30 Scholar	Polyjet	07-03-2013
20	IIT Roorkee	Objet30 Pro	Polyjet	10-09-2013
21	NPOL	OBJET 30 Pro	Polyjet	04-10-2013
22	Delhi Control Devices	OBJET 24	Polyjet	30-06-2013
23	Dentcare Dental Lab Pvt. Ltd.	E260V	Polyjet	10-10-2013
24	Delhi Technological University	OBJET30 Scholar	Polyjet	26-03-2014
25	Kohler India Corp. Pvt. Ltd.	OBJET 30 Pro	Polyjet	31-03-2014
26	Dayalbagh Educational Institute	MOJO	FDM	03-04-2014
27	Dayalbagh Educational Institute	OBJET 30 Pro	Polyjet	22-04-2014
28	Elofic Industries Ltd.	OBJET 24	Polyjet	16-04-2014
29	Anna University	EDEN260V	Polyjet	09-07-2014
30	Anna University	U PRINT SE	FDM	09-07-2014
31	Robert Bosch Engineering and Business	Dimension Elite	FDM	24-07-2014
32	Maruti Suzuki India Ltd	OBJET Connex 500	Polyjet	8/1/2014
33	JJ Implants	Objet 30 Orthodesk	Polyjet	28-08-2014
34	Hindware Sanitary (HSIL)	OBJET 24	Polyjet	
35	Hero Cycles	Dimension 1200es	FDM	01-10-14
36	Dayalbagh Educational Institute	Fortus 400MC	FDM	29-01-15
37	IIT Delhi	Uprint SE	FDM	5/27/2014
38	Cadensworth India Ltd	Fortus 400MC	FDM	
39	CUSAT	Uprint SE	FDM	11/11/2014
40	SCMS	OBJET 30 Pro	Polyjet	8/12/2014
41	Cubistry	OBJET 30 Pro	Polyjet	11/4/2014
42	Tata Elxsi	Connex 500	Polyjet	12/31/2015
43	NEPA (JSK International)	Objet 24	Polyjet	2/28/2015
44	AIIMS	Dimension	FDM	
45	The Plastics Export Promotion Council (Tat	Dimension SST 1200	FDM	4/2/2015
46	BML Munjal University	OBJET 30	Polyjet	4/18/2015
47	Target 3	OBJET EDEN 260VS	Polyjet	4/30/2015

B. Voc. Digital Manufacturing

Chhotanagpur Rope
Works Pvt. Ltd.



CHHOTANAGPUR ROPE WORKS

PVT. LIMITED

ROPES & CORES

FROM JUTE, SISAL, MANILA & OTHER FIBERS

TO WHOMSOEVER IT MAY CONCERN

This is to confirm that our Organization has been hiring the students passing out of the following Vocational Courses conducted by Dayalbagh Educational Institute for the past three years:

1. Electrician
2. Fitter

We find the students joining us have very good skills in the related course and are useful to our Organization.

We plan to keep considering the students of Dayalbagh Educational Institute for hiring in our Organization in future too.

For Chhotanagpur Rope Works Pvt. Ltd.


Ram Prवेश Lal

General Manager (Production & P.A.)



B. Voc. Digital Manufacturing

Syscom



28th February 2015

TO WHOMSOEVER IT MAY CONCERN

This is to confirm that our organization has been hiring the students passing out of the following vocational courses conducted by Dayalbagh Educational Institute for the past 3 Years.

1. Fitter
2. Electronics
3. Electrician

We find the students joining us have very good skills in the related course and are useful to our Organization.

We Plan to keep considering the students of Dayalbagh Educational Institute in future too.

For SYSCOM CORPORATION LTD.

A handwritten signature in black ink, appearing to read "Pradeep", written over a horizontal line.

PRADEEP KUMAR PANDEY
ASSTT.MANAGER-HR

B. Voc. Digital Manufacturing

SRF



TO WHOMSOEVER IT MAY CONCERN

Date: 27/02/2015

This is to confirm that our Organization has been hiring the students passing out of the following Vocational Courses conducted by Dayalbagh Educational Institute for the past 1 years:

1. Different Vocational Training program
2. Diploma Engineering Courses

We find the students joining us have very good skills in the related course and are useful to our Organization.

We plan to keep considering the students of Dayalbagh Educational Institute for hiring in our Organization in future too.

For SRF Limited,

A handwritten signature in blue ink that reads 'Manish' with a horizontal line underneath.

Manish Kumar Srivastava

DGM- HR & Administration

B. Voc. Digital Manufacturing

Redington



Redington (India) Limited
No.153, Ground Floor,
Okhla Industrial Estate, Phase - III,
New Delhi - 110 020, India
Tel : +91 11 3084 5301
CIN : L52599TN1961PLC028758
www.redingtongroup.com

Dear Sir,

July 06, 2018

We **Redington India Limited**, endorses and supports Dayalbagh Educational Institute proposal for Skill Development Course on Direct Digital Manufacturing that will be used to build an Additive Manufacturing capability at DEI. Redington, believes the award of the proposed program will provide the following benefits:

- 1- Provide a training and education resource in specific Additive Manufacturing technologies, fused deposition modeling and electronics printing, that are key to our industry growth.
- 2- Enable the commercialization of new product offerings manufactured by Redington India Limited
- 3- Help grow the Indian manufacturing base in support of domestic manufacturing, leading to improved competitiveness.

Should the proposed program be awarded, we Redington India Limited pledges support as a collaborating partner with DEI. Our company has the required R&D and Engineering staff that will provide technical expertise to maintain the equipment, develop curriculum, and advise student internship and projects.

Furthermore, growing DEI education activities in this area will enable Redington to hire more staff and grow business while leveraging large company needs in addition.

Redington India Limited is a committed local partner of DEI dedicated to supporting its mission to: "encourage excellence, diversity, and engaged learning by providing a contemporary and accessible education".

Thanking you,

With Best Regards,

Vinod Kumar
Senior Manager - 3D Business Unit
vinod.yadav@redington.co.in



B.Voc. Telematics

Dayalbagh Educational Institute, Agra

SEMESTER 1

S. No.	Type	Code	Name	Credits
1	Major	ITV101	Basic Electronics	3.0
2	Major	ITV102	Basic Electronics Lab	1.5
3	Major	ITV103	Project I	1.5
4	Major	VCC101	Communication Techniques English	2.0
5	Major	VCC102	Fundamentals of Accounting and Finance	3.0
6	Major	VCC103	IT Fundamentals	3.0
7	Major	VCC104	Basic Mathematics	3.0
8	Major	VCC105	Import Export License	3.0
9	Major	VCC106	Entrepreneurship	3.0
10	Core	CEC191	Cultural Education	2.0
11	Core	ESC191	Environmental Studies	2.0
12	Core	GKC191	Sc. Meth/ GK/ Current Affairs	1.0
13	Core	RDC191	Rural Development	1.0
14	Core	RDC192	Social Service	1.0

SEMESTER 2

S. No.	Type	Code	Name	Credits
1	Major	VTE204	Electronics II	4.0
2	Major	VTE205	Programming I	4.0
3	Major	VTE206	Electronics Lab	4.0
4	Major	VTE207	Programming Lab	4.0
5	Major	VCC201	Appr. Of Arts I	3.0
6	Major	VCC202	Appr. Of Arts II	3.0
7	Major	CAC291	Co-Curricular Activities	3.0
8	Major	CRC291	Comp. study of Religion	2.0
9	Major	RDC291	Agricultural Operations	1.0
10	Core	GKC291	Sc. Meth/ GK/ Current Affairs	1.0
11	Core	RDC291	Social Service	1.0

SEMESTER 3

S. No.	Type	Code	Name	Credits
1	Major	ITV301	Python based Data Mngt. And Visualiz.	4.0
2	Major	ITV302	Principles of IoT	4.0
3	Major	ITV303	Computer Networks	4.0
4	Major	ITV304	Microcontrollers	3.0
5	Major	ITV305	Data Mngt. & Visualiz. Lab in Python	3.0
6	Major	ITV306	Computer Networks Lab	3.0
7	Major	ITV307	Microcontroller Lab	3.0
8	Major	ITV308	Project II	3.0
9	Major	ITV309	Soft Skills & Personality Development	2.0
10	Core	GKC391	Sc. Meth GK and Current Affairs III	1.0
11	Core	RDC192	Social Service	1.0

















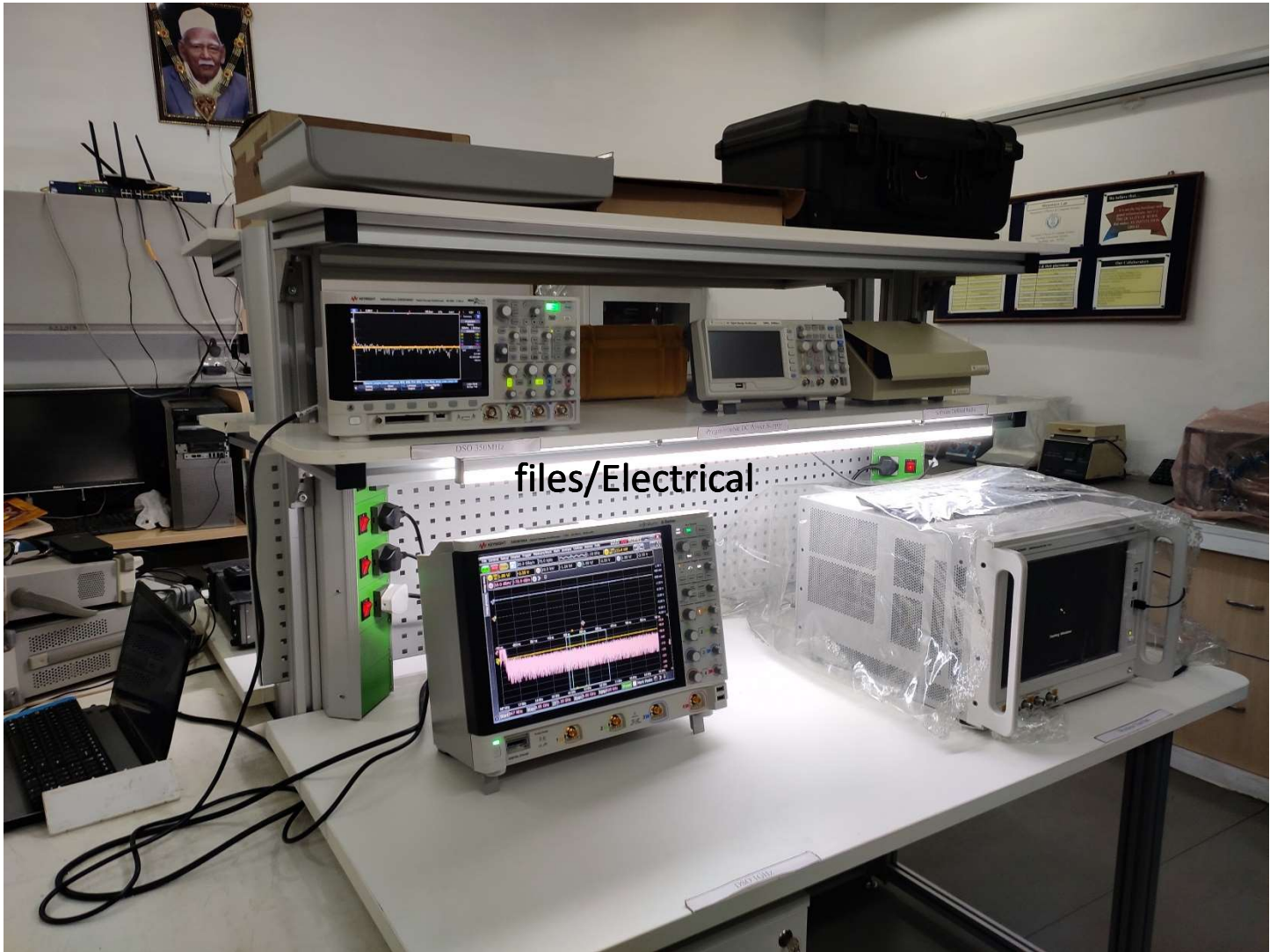












files/Electrical

B.Voc. WS&SWM

Prof. Soami P. Satsangee

Courses Offered

- **B.Voc. (Water, Sanitation and Solid waste management)**
 - Diploma in Water, Sanitation and Solid Waste Management – one year
 - Advance Diploma in Water, Sanitation and Solid Waste Management – two year
 - B.Voc. in Water, Sanitation and Solid Waste Management – three year

Objectives of the Course

- Develop an understanding regarding water crisis and its prevention.
- Create awareness of Government schemes and projects related to Water, Sanitation and Solid Waste Management.
- To create deeper understanding of status, problems and solutions of solid waste in India.
- To develop skills in innovative techniques in waste management.
- To do innovative projects on "Waste to Wealth".

Vision of Waste Management Program



Benefits for society and students

- Waste is not a waste until it is not wasted truly. There is a huge scope in this waste in form of energy, recycled products etc.
- Create awareness leading towards Zero Waste Economy
- Dealing of waste can improve health and hygiene and also fosters a sense of community and belonging.
- Teaching of “Cradle to Cradle” model which signifies the usage of green products and then returning them back to environment. This model is sustainable and considerate of life and future generation.
- Students get aware that how much our environment is important to us and follow the path of sustainable development.
- Today there are so many companies working on recycling of paper and electronic waste which can absorb our students.
- This course trained students to become entrepreneurs.

Link with 6Qs

- Our course deals with the different types of waste i.e. agricultural waste, water pollution, paper waste etc.
- Finding out the solutions to get rid of the waste generated and make our surroundings clean and healthy.

Values Imbibe in the Course

- Dignity of labour, respect of soiled hands
- Minimalism
- Cleanliness and Hygiene
- Team Spirit

- Instruments:
 - Paper Recycling Unit
 - Biodigester
 - Water testing Kit
 - Leaf shredder
 - Arsenic-testing Kit

- No. of Students: 120



Paper Recycling Unit



Vertical Gardening



Visit with NGO



Edible Crockery



Composting





SMART WAYS TO HANDLE WASTE

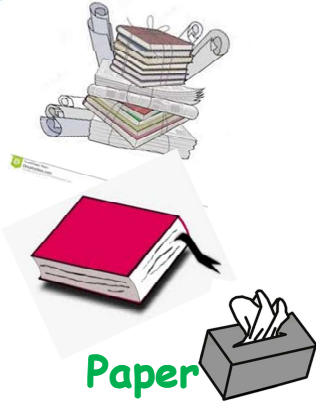


DEI is strongly committed towards waste management and believes in generating minimal waste and manage it till its final disposal

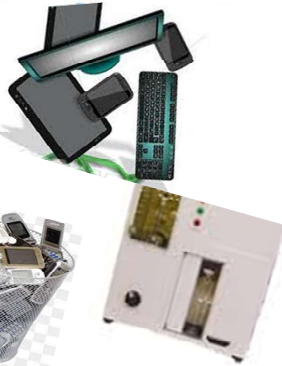
WASTE



Organic Waste



Paper Waste



E-Waste



Liquid Waste



Rain Water Harvesting



Compost



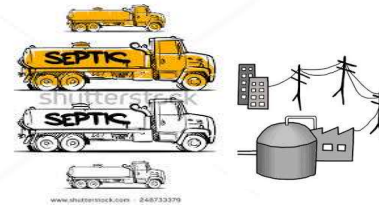
Biogas Plant



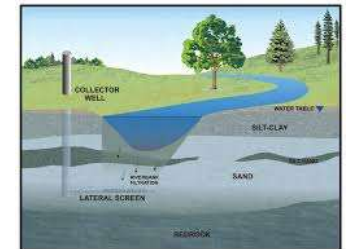
Paper Recycling Unit



Repair Art/crafts



Septic Biodigester Tanks



River Bank Filtration

1. Curricular Aspects

Programs Offered

A. B.Voc. (Water, Sanitation and Solid waste management)

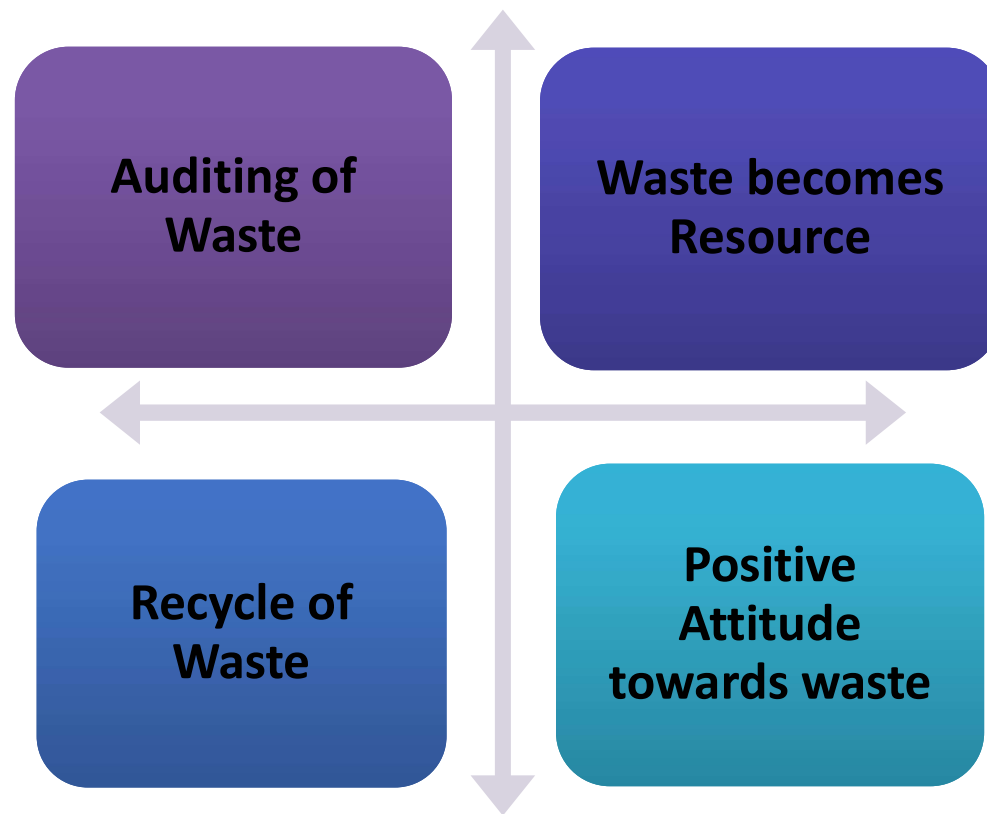
- Diploma in Water, Sanitation and Solid Waste Management – one year
- Advance Diploma in Water, Sanitation and Solid Waste Management – two year
- B.Voc. in Water, Sanitation and Solid Waste Management – three year

B. New Programs Introduced (2019)

- PG Diploma in Waste Management and Social Entrepreneurship
- MBA in Waste Management and Social Entrepreneurship

Vision of Waste Management Program

Zero Waste System



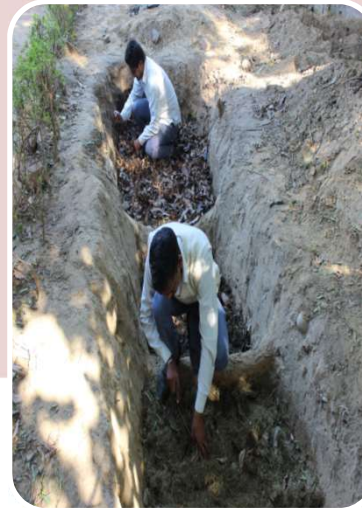
Activities



Waste Segregation at Source



Recycling of Paper



Compost pit using Food Waste



Compost Preparation from Biomass

Activities



Creating awareness about waste



Paper recycling



Waste audit



Solid waste segregation



Sorting of waste in Radha Nagar



Plastic reuse

Edible Cutlery



- **Natural resources**
(Rice, Wheat & Jowar)
- **Flavors : Sweet , plain , spicy & more**
- **Decomposition : 4 to 5 days**
- **Eco-friendly**



Projects by students



Paper from Rice Straw



Soap Making



Drum Vertical Gardening



Reuse of coconut Shell



Hydroponics



Model of STP



Vertical Gardening

“Kabaad Se Jugaad”



University Sustainable Innovation Centre
Dayalbagh Educational Institute
Dayalbagh, Agra-282005

Mobile: +919760230620
Email: incharge.usic@dei.ac.in
Website: www.dei.ac.in

Three year B.Voc. Program: Water, Sanitation and Solid Waste Management



Dayalbagh Educational Institute, Dayalbagh, Agra—282005

“Recycle, Reduce, Reuse ... close the loop!”

Objectives of the Course

- To develop an understanding regarding water crisis and its prevention.
- To create awareness of Government schemes and projects related to Water, Sanitation and Solid Waste Management.
- To develop skills of Water, Sanitation & Solid Waste Management and their audit for betterment.
- To create deeper understanding of status, problems and solutions of solid waste in India.
- To do innovative projects on "Waste to Wealth".



Course Features

- Three year vocational degree program approved by UGC.
- Multiple entry and exit facility.
- Training & Internship in Industry, NGOs & other Municipal bodies.



Future Plans

- To provide training and support to students to become job creators.
- To create Zero-waste awareness and its implementation on campus.

