

# Haryana Vishwakarma Skill University

## Frequently Asked Questions

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**Q1.** What is NSQF and its various levels?

**Ans.** NSQF is stand for National Standard Qualification Framework. It has 10 levels from 1 to 10.

**Q2.** What is the key features of this course?

**Ans.** It is under Dual Education System. Key features of the programme are:

- Earn-while-learn
- Dual education system
- Theory and practical: learn and apply the skills
- Industry integrated programme
- Entrepreneurial skills
- World class OJT facility
- Mobility and flexibility for multiple entry and exit options
- Highly subsidized fee
- Stipend support
- Placement assistance/ job prospects

**Q3.** What are the objectives of these programmes i.e. Dual Education System?

**Ans.** The main objective of Dual Education System programme is:

- I. To provide judicious mix of skills relating to a profession and appropriate content of General Education.
- II. To ensure that the students have adequate knowledge and skills, so that they are work ready at each exit point of the programme.
- III. To provide flexibility to the students by means of pre-defined entry and multiple exit points.
- IV. To integrate NSQF within the undergraduate level of higher education in order to enhance employability of the graduates and meet industry requirements. Such graduates apart from meeting the needs of local and national industry are also expected to be equipped to become part of the global workforce.
- V. To provide vertical mobility to students coming out of 10+2 with vocational subjects also.

**Q4.** What is the duration for entire course?

**Ans.** In the current session 2018-19, HVSU is going to run D.Voc, B.Voc., Diploma, Advanced Diploma and Post Graduate Diploma Courses. The details are as follows:

S. No.	Programme	Duration
1	D.Voc., B.Voc.	3 Years
2	Diploma, Advanced Diploma, Post Graduate Diploma	1 Year

**Q5. Who is the Corresponding Industry partner and respective OJT location?**

**Ans.**

S. No.	Programme	Industry	OJT Location
1	D.Voc. (Industrial Electronics)	East West	East West Automation technology Private Limited, Bahadurgarh
2	B.Voc. (Automotive Mechatronics, Automotive Manufacturing)	Hero Motocorp	Hero Morocorp-Dharuhera, Rewari
3	B.Voc. (Tool and Die Manufacturing, Robotics and Automation)	JBM Group	JBM Group, Gurugaon
4	Advanced Diploma in Plastic Technology	Trim India	Pataudi Road, Dhorka Village, Gurgaon
5	B. Voc. in BPM and Analytics	Concentrix	DLF Building 14, Tower C, 17th Floor, DLF Cybercity, Sector 25 A, Gurugram-122002
6	Post Graduate Diploma in Public Health	IQBIA	Delhi
7	Diploma in Ethnic Foods & Sweets Processing	Bikanervala Foods Pvt. Ltd.	Gurugram
8	Post Graduate Diploma in Geo-Informatics	Gurugram Metropolitan Development Authority	Gurugram

**Q6. What are the Eligibility Criteria?**

**Ans.**

S. No.	Programme	Eligibility
1	D.Voc. (Industrial Electronics)	10 <sup>th</sup> (with Science & Mathematics as Compulsory Subjects) <b>OR</b> 2 years ITI after 8 <sup>th</sup> Class with 2 subjects (1 Language & 1 Academic) passed from any recognised board / Equivalent
2	B.Voc. (Automotive Mechatronics, Automotive Manufacturing, Tool and Die Manufacturing, Robotics and Automation)	10+2 (PCM) <b>OR</b> 10 <sup>th</sup> plus (2 Years or 3 Years) Diploma in Automobile Engg/ Mech. Engg./ Production Engg./ Industrial Engg./ Computer Science/ Information Technology/ Power Engg./ Electronics/ Instrumentation/ Plastic Technology/ Electrical/ Electrical & Electronics/ Electronics & Communication/ Textile Technology/ Civil/ Chemical Engg./ Mechatronics <b>OR</b> 10 <sup>th</sup> + ITI (minimum 2 years) Technician/ Mechanic/ Maintenance/ Machinist/ Repair/ Mechanical/ Automobile/ Electrical/ Electronic Turner/ Tool & Die Making/ Sheet Metal/ Refrigeration & Air Conditioning/ Pump Operator/ Networking, with 2 Subjects (1 Language & 1 Academic) passed from any recognised board
3	Advanced Diploma in Plastic Technology	3 Years Polytechnic Diploma in Plastic Technology/ Polymer/ Mechanical/ Chemical/ Electronics/ Electrical
4	B. Voc. in BPM and Analytics	10+2 <b>OR</b> 10 <sup>th</sup> plus (2 year or 3 years) Diploma in Modern Office / Secretarial Practices / Business Management/ Financial Auditing and Accounting/ Hotel Management/ Computer Science/ Information Technology/ Electronics & Communication/ Communication/ OMCA <b>OR</b> 10 + ITI (minimum 2 year in Modern Office/Secretarial Practices/Business Management/Computer Science/Information Technology/Electronics & Communication/Communication) with 2 subjects (1 Language & 1 Academic) Passed from any recognized board
5	Post Graduate Diploma in Public Health	Graduate/Post-Graduate degree in Medicine, Ayush, Dental, Nursing, Pharmacy, Health Sciences, Physiotherapy, Occupational Therapy, Natural/ Life Sciences, BSW/ MSW
6	Diploma in Ethnic Foods & Sweets Processing	10+2 in any stream
7	Post Graduate Diploma in Geo-Informatics	B.E. or B.Tech./ Post Graduate degree in Geography, Geology, Agriculture, Architecture, Civil, Computer Science, Physics, Chemistry, Mathematics, Statistics, Soil Science, Earth Science, Environment, Urban Planning, Rural Management, Disaster Management, Forestry, Oceanography, MBA from a recognised University with a minimum 60% of marks

**Q7. What is the course fee for various Programmes?**

**Ans.**

S. No.	Programme	Duration of Course (semesters)	Course Fees (Rs.)								Total Fee (Subsidized)
			On the Time of Admission			Semester wise Fee					
			Admission Fee	Security Fund (*Refundable)	Total	Tuition Fee	Examination Fee	Student Activity Fund	Misc Fund	Total	
1	B.Voc. (Automotive Mechatronics)	6	2000	1000	3000	2000	2500	300	200	5000	33000
2	B.Voc. (Automotive Manufacturing)	6									
3	B.Voc. (Tool and Die Manufacturing)	6									
4	B.Voc. (Robotics and Automation)	6									
5	B.Voc. (BPM and Analytics)	6	2000	1000	3000	2000	2000	300	200	4500	30000
6	D.Voc. (Industrial Electronics)	6	2000	1000	3000	1500	1500	300	200	3500	24000
7	Advanced Diploma in Plastic Technology	2	2000	1000	3000	2000	2500	300	200	5000	13000
8	Diploma in Ethnic Foods and Sweets Processing	2	2000	1000	3000	2000	2500	300	200	5000	10000
9	Post Graduate Diploma in Geo-Informatics	2	2000	1000	3000	1500	2000	300	200	4000	11000
10	Post Graduate Diploma in Public Health	2	2000	1000	3000	1500	2000	300	200	4000	11000

**Q8. What is the Intake for various courses?**

**Ans.** The intake for various courses at HVSU is as follows:

S. No.	Programme	Intake
1	D.Voc., Advanced Diploma, Post Graduate Diploma in Public health	20
2	B.Voc., Diploma (1Year), Post Graduate Diploma in GIS	30

Note: Seat Bifurcation as per Haryana Government Reservation Policy

Intake	AIC/ non domicile (15%)	Haryana Domicile (85%)				
		HOGC: (50%)	SC: (20%)	BC-A: (16%)	BC-B:(11%)	DA/PwD: (3%)
30	04	13	05	04	03	01
20	03	08	03	03	03	01

AIC: All India Category      HOGC: Haryana Open General Category

Note:

- Reservation of Seats for the domicile/ residents of village Panchayat (s): As per notification of the State Government 01 seat per branch (within sanctioned intake) is reserved for the domicile/ residents of the village Panchayat (s) which has gifted land free of cost/ on lease to the State Government.
- There will be 01 seat reserved for the migrants from the J&K under Supernumerary seats - over and above the sanctioned seats.

**Q9. What is the selection process for various courses?**

**Ans.**

S. No.	Programme	Selection Process
1	D.Voc. (Industrial Electronics)	Step 1. Entrance Exam (70 Marks) Step 2. Personal Interview with industry + HVSU experts (30 Marks) Step 3. Combined merit (100 Marks) Step 4. Counseling based on the marks obtained in Combined merit Step 5. Final Merit List
2	B.Voc. (Automotive Mechatronics, Automotive Manufacturing, Tool and Die Manufacturing, Robotics and Automation)	Step 1. Entrance Exam (70 Marks) Step 2. Personal Interview with industry + HVSU experts (30 Marks) Step 3. Combined merit (100 Marks) Step 4. Counseling based on the marks obtained in Combined merit Step 5. Final Merit List
3	Advanced Diploma in Plastic Technology	
4	B. Voc. in BPM and Analytics	Step 1. Entrance Exam (70 Marks) Step 2. Group Discussion & Personal Interview with industry + HVSU experts (30 Marks) Step 3. Combined Merit (100 Marks) Step 4. Counseling based on the marks obtained in Combined merit Step 5. Final Merit List
5	Post Graduate Diploma in Public Health	Step 1. Merit List based on marks obtained in Qualifying Exam (70 Marks)
6	Diploma in Ethnic Foods & Sweets Processing	Step 2. Personal Interview with industry + HVSU experts (30 Marks) Step 3. Combined merit list of Qualifying Exam & Personal Interview Step 4. Counseling based on the marks obtained in Final merit
7	Post Graduate Diploma in Geo-Informatics	Step 1. Entrance Exam (70 Marks) Step 2. Personal Interview with industry + HVSU experts (30 Marks) Step 3. Combined merit (100 Marks) Step 4. Counseling based on the marks obtained in Combined merit Step 5. Final Merit List

**Q10. What is Min. and Max. Age criteria?**

**Ans.**

S. No.	Programme	Min. Age	Max. Age	Remark
1	D.Voc. (Industrial Electronics)	16	25*	*For Reserved Categories- (3 Year for OBC and 5 Year for SC/ST on Upper Age)
2	B.Voc. (Automotive Mechatronics, Automotive Manufacturing, Tool and Die Manufacturing, Robotics and Automation, BPM and Analytics)	18	30*	
3	Advanced Diploma in Plastic Technology			
6	Diploma in Ethnic Foods & Sweets Processing	18	35*	
5	Post Graduate Diploma in Public Health	21	35*	
7	Post Graduate Diploma in Geo-Informatics			

**Q11. What is the Entrance Test/Application fee for various courses?**

**Ans.** General: Rs. 200

BC/Kashmiri Migrants: Rs. 100

SC/ST: Free

PWD: Free

Female: Free

**Note:**

1. Category-wise fee is applicable for Haryana Domicile only.
2. Number of shortlisted candidates to be called for personal Interview/Group Discussion will be 5 time of total intake of the respective programme.
3. A candidate can give preference out of 4 programmes offered under Common Entrance Test (CET). The admission fee for CET (for all four programmes) would be only as per Gen (Rs. 200), BC/ Kashmiri Migrants (Rs. 100) and No-fees for SC, DA/ PwD, and Female.

**Q12.** What are the documents required to be uploaded?

**Ans.**

Sr. No.	Course Name	Documents Required
1	D. Voc. in Industrial Electronics	1. D.O.B 2. Category certificate 3. DMC (8th, 10th/ITI) 4. Certificates (8th, 10th/ITI) 5. Domicile certificate 6. Income certificate (for BC: Non-Creamy layer)
2	B. Voc. in Automotive Manufacturing	1. D.O.B
3	B. Voc. in Automotive Mechatronics	2. Category certificate
4	B. Voc. in Robotics & Automation	3. DMC (10th, 12th/ITI/Diploma)
5	B. Voc. in Tools & Die Manufacturing	4. Certificates (10th, 12th/ITI/Diploma)
6	B. Voc. in BPM and Analytics	5. Domicile certificates 6. Income certificate (for BC: Non-Creamy layer)
7	Advanced Diploma in Plastic Technology	1. D.O.B 2. Category certificates 3. DMC (10th, 12th/ITI/Diploma) 4. Certificates (10th, 12th/ITI/Diploma) 5. Domicile certificate 6. Income certificate (for BC: Non-Creamy layer)
8	Diploma in Ethnic Foods and Sweets Processing	1. Proof of Date of birth (DOB) 2. Category certificate (10th, 3 Years Polytechnic Diploma) 3. Certificate (10th, 3 Year Polytechnic Diploma) 4. Domicile certificate 5. Income certificate (for BC: Non-Creamy layer)
9	Diploma in Ethnic Foods and Sweets Processing	1. D.O.B 2. Category certificate 3. DMC (10th, 10+2) 4. Certificates (10th, 10+2) 5. Domicile certificate 6. Income certificate (for BC: Non-Creamy layer)
10	Post Graduate diploma in Public Health	1. D.O.B 2. Category certificate 3. DMC (10th, 10+2, Graduation, Post Graduation) 4. Certificates (10th, 10+2, Graduation, Post Graduation) 5. Domicile certificate 6. Income certificate (for BC: Non-Creamy layer)
10	Post Graduate Diploma in Geo-Informatics	1. D.O.B 2. Category certificate 3. DMC (10th, 10+2, Graduation, Post Graduation) 4. Certificates (10th, 10+2, Graduation, Post Graduation) 5. Domicile certificate 6. Income certificate (for BC: Non-Creamy layer)

## **Course: B.Voc. (Automotive Mechatronics)**

**Q1.** What is Automotive Mechatronics?

**Ans.** Mechatronics is a synergistic combination of precision mechanical engineering, electronic /computers, control and automation for product designing and their manufacturing.

**Q2.** Why Study Mechatronics?

**Ans.** Mechatronics engineers design, create, apply sensors and actuators, develop control algorithms, use/ develop advanced functional materials for the design of mechanical systems for chassis stabilizing systems, anti-lock brakes, engine control units, disk drives, cameras, service and surgical robots and artificial hearts and miniaturized electro-mechanical devices etc

**Q3.** What is scope of Mechatronics?

**Ans.** Mechatronics being integration of Computer Science, Mechanical and Electrical & Telecom engineering expands the careers horizon, from core manufacturing with automated surveillance and automobiles designing to all the major companies implanting/applying robotics and Artificial intelligence into Industry, like Robert Bosch GmbH, Honeywell Automation FANUC India, ABB , Siemens, Yaskawa Motoman and FESTO

**Q4.** What are the career opportunities available in B.Voc. Automotive Mechatronics?

**Ans.** The Automotive Mechatronics offers a wide range of career opportunities in the field of Automobile Automation, Robotics, Manufacturing etc. Mechatronics engineers can work in different job roles as given below:

- I. Develop new solutions to industrial problems using mechanical and electronic processes and computer technology.
- II. Design and build new products by integrating various technologies, for example, developing robotic vehicles for underwater and space exploration.
- III. Build and test factory production lines introducing automation to improve existing processes.
- IV. Maintain and improve manufacturing processes and designs, for example, robotic lawn mowers and robot floor cleaners.
- V. Design, manufacture advanced control systems for automated solutions to the transfer of material, components or finished goods.

**Q5.** What type of jobs can I get after L4, L5, L6 & L7?

**Ans.**

- I. Level (L4):
    - a. Auto Component Assembly Fitter
    - b. Maintenance Technician Mechanical
    - c. Maintenance Technician Electrical
  - II. Level (L5): Operator Level as Automation Specialist
  - III. Level (L6): Supervisor Level as Manager Maintenance Mechanical & Electrical
  - IV. Level (L7): Manager Level as Shift Manager Maintenance
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## **Course: B.Voc. (Automotive Manufacturing)**

**Q1.** What is Automotive Manufacturing?

**Ans.** Automotive Manufacturing domain deals with the creation and assembling of various parts of automobiles. The study of automotive engineering is to design, develop, fabricate, and testing vehicles or vehicle components from the concept stage to production stage. The automotive engineering field is research-intensive and involves direct application of mathematical models and formulas.

**Q2.** What is the scope of Automotive Manufacturing?

**Ans.** Automotive Manufacturing is a 3 trillion USD revenue generating industry globally, with opportunity as Production engineer, process engineer, logistics engineer, procurement engineer, material planning engineer. You will get opportunities in many of the automotive companies in our country like GM, VW, Ford, Hyundai, Maruti Suzuki, Toyota, BMW. Heavy mode vehicle manufacturers like Mahindra, Ashok Leyland, Volvo, Scania, Bharat Benz. Heavy equipment manufacturers like Caterpillar, Komatsu, L&T. And also you can work for their tier 1 companies.

**Q3.** What careers are available in Automotive manufacturing?

**Ans.** Students will find job as a quality engineer, mechanical Engineer, Process Development Engineer, Manufacturing Engineer in auto industries.

**Q4.** What are the main courses which will be taught in 3 years' degree program?

**Ans.** Main courses includes: Applied mathematics, Applied Physics, Basics of Mechanical Engineering, Manufacturing Technology, Tool Engineering, Material science, Workshop Technology, welding Technology, Engineering Graphics and Drawing, Leadership and quality management etc.

**Q5.** What will be my career opportunities after L4, L5, L6 and L7?

**Ans.** The career Opportunities available are the following:

- I. Level (L4): welding operator/ machine operator/ Assembling and disassembling of auto components but under the supervision of a supervisor.
- II. Level (L5): Operator in machining/ welding.
- III. Level (L6): Master welder / Machine setter.
- IV. Level (L7): Supervisor in Quality Department.

**Q6.** What is the amount of stipend which i will be receiving from the company during my On job Training (OJT)?

**Ans.** Stipend of around Rs. 9000/- per month will be given during the OJT as per the industry rules/policies.

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**Course: B.Voc. (Tool and Die Manufacturing)**

**Q1.** What do you mean by Tool and Die Manufacturing?

**Ans.** Die is a specialized tool, used in manufacturing industries to cut or shape material, mostly using a press, like molds. Dies are generally customized to the items they are used to create,

**Q2.** What is the scope of tool and die manufacturing?

**Ans.** B.Voc. (Tool and Die Manufacturing) NSQF level 7 graduates can pursue their career in:

- (a) The Auto Manufacturing.
- (b) As M.Voc. at NSQF level 9 i.e. Masters' in various fields such as Tool Engineering, Production, industrial engineering, tool and mould designing etc.

**Q3.** What type of jobs can get after L4, L5, L6 and L7?

**Ans.**

- I. Level (L4): the student may work as Technician
  - a. Tool Room Operator/
  - b. CNC Operator (Technician)
- II. Level (L5): the student may work as Senior Technician
  - a. Tool Room Operator
  - b. Die Maker
- III. Level (L6): the student may work as Master Technician
  - a. Tool Room Operator
  - b. Die Maker
- IV. Level (L7): the student may work as Tool Room Engineer

**Q4.** What carriers are available after completing the course?

**Ans.** B.Voc. (Tool and Die Manufacturing) NSQF Level 7 can find employment in industries which utilize mechanical machinery. The job openings in this sector include development, manufacture, design and maintenance of tool. The career aspects are huge with respect to the manufacturing field. The well-trained graduate in the field of tool and die manufacturing can find placement in the auto manufacturing industries like JBM, Hero Motocorp, Hero Honda 2 Wheelers, Mahindra & Mahindra 2 wheelers, Maruti, Tata Motors, Bajaj, TVS and their ancillary units etc.

**Q5.** What will be the amount of stipend to be given to students?

**Ans.** For On Job Training (OJT), JBM Group is providing stipend:

- I. First Year: Around Rs. 8500/- per month
  - II. Second Year: Around Rs. 9000/- per month
  - III. Third Year: Around Rs. 9500/- per month
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**Q6.** What are main courses which will be taught in the course?

**Ans.**

- I. Manufacturing Technology
- II. CNC programming and machining
- III. Metrology
- IV. CAD/CAM
- V. Die maintenance & press tools
- VI. Metal working processes
- VII. Machine design
- VIII. Pneumatics and hydraulics
- IX. Non-conventional machining, SQC etc.

**Q7.** What are sectors for job after completing this course?

**Ans.** Tool & Die manufacturing market in India is experiencing increased demand from industries such as:

- I. Automotive
  - II. Plastic
  - III. Electronics
  - IV. Electrical
  - V. Healthcare and
  - VI. Machine Tools
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## **Course: B.Voc. (Robotics and Automation)**

**Q1.** What do you mean by Robotics and Automation Programme?

**Ans.** Robotics and Automation is the use of control systems and information technologies to reduce/minimize the need for human work in the production of goods and services., automation being a step beyond mechanization.

**Q2.** What is the Scope of Robotics and Automation Course?

**Ans.** A course in robotics trains and educates a student in the field of artificial intelligence, computer-aided manufacturing, computer integrated manufacturing system, computational geometry, robot motion planning, digital electronics and micro processing. Robots are mainly used for carrying materials including heavy parts to and from inconvenient locations and handling hazardous materials like nuclear waste.

**Q3.** What are the Future/ Career opportunities of Robotics and Automation?

**Ans.** One can expect jobs at Manufacturing industries, ISRO, DRDO, HAL, all major Auto Industries like Hero Corp, Maruti, etc Private industries, Automobiles, Appliance and industrial tools. Also sales/ marketing careers are also available in robot technology, computer controlled machine programming, robotic sales and more.

**Q4.** What are the main subjects taught?

**Ans.** Basics of Automation, Basics of Robotics, Kinematics and Dynamics of Machines, Automation system Design, Electrical Machines and Drives, Sensors and Instrumentation, Automatic control system, Totally Integrated automation, Robotic Design and control, Linear Integrated Circuits, Special Machines and Controllers.

**Q5.** What are the jobs can I get after doing L4, L5, L6, L7?

**Ans.** Students can perform various jobs after completing:

- I. Level (L4): Welding Technician.
- II. Level (L5): Robotics & Automation Associate.
- III. Level (L6): Robotics & Automation Junior Executive.
- IV. Level (L7): Robotics & Automation Executive.

**Q6.** How much stipend will be Paid?

**Ans.** For On Job Training (OJT), JBM Group is providing stipend:

- I. First Year: Around Rs. 8500/- per month
  - II. Second Year: Around Rs. 9000/- per month
  - III. Third Year: Around Rs. 9500/- per month
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## Course: D.Voc. (Industrial Electronics)

**Q1.** What is Industrial Electronics?

**Ans.** Industrial electronics is a branch of electronics that deals with electronic devices used in industries, such as Automotive, Telecom, CNG, UPS, white goods etc. and their wire harnessing. It also deals with entire range of Molex Housing, Connectors, Terminals and Headers. The branch covers wire cutting, stripping, soldering, moulding, assembling etc.

**Q2.** What is the scope of the project?

**Ans.** Scope of Industrial Electronics ranges from design and maintenance of PLCs., microprocessors, computer hardware, wire harnessing, Industrial Electronics can handle the manufacturing of wires for all types of modern day Automotive, telecom etc processes. It is the fastest developing field.

**Q3.** What careers are available in Industrial Electronics?

**Ans.** Having a look at the career prospect, there is bound to be huge demand for competent engineers in electronic industry to cope this demand in technology.

- A D.Voc in Industrial Electronics can apply in 2<sup>nd</sup> year of B.Voc or other graduate courses.
- Wire harnessing companies, Telecommunication and IT industries, Power electronics and other industries like Petroleum, steel etc.
- with computers and electronic equipments in medical, manufacturing and aeronautical fields.

**Q4.** What kind of jobs can I get after Level 3?

**Ans.** After the completion of first year in Diploma in Industrial Electronics, the students will be NSQF L3 certified and will be able to work on the wire cutting machines, crimping machines, and wire stripping machines. The students will be able to cut, crimp and strip wire manually. The student assembles the wire into housing.

**Q5.** What kind of jobs can I get after Level 4?

**Ans.** After the completion of second year in Diploma in Industrial Electronics, the students will be NSQF L4 certified and will be able to work on the automated and semi-automated wire bonding machines. He will be efficient enough to handle customer complaints and install new wires.

**Q6.** What kind of jobs can I get after Level 5?

**Ans.** After the completion of third year in Diploma in Industrial Electronics, the students will be NSQF L5 certified and will be able to understand the product requirements, manufactures the product and market the product.

**Q7.** What are the main industries for future prospect?

- Ans.**
- a. Relicab Cable Manufacturing Limited.
  - b. East West Automation Technologies Pvt. Ltd.
  - c. WHMA etc
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## **Course: Advanced Diploma (Plastic Technology)**

**Q1.** What is Plastic Technology?

**Ans.** The methods used to convert plastics materials available in the form of pellets, granules, powders, sheets or fluids and pass through process resulting into forming various shapes or parts. The plastic materials may contain a variety of additives which influence the properties as well as the process ability of the plastics, to achieve specific results.

**Q2.** What is the scope of Advanced Diploma in Plastic Technology?

**Ans.** The public sector organizations including Oil and Natural Gas Corporation, Oil India Limited, polymer corporations of different states, petrochemical research laboratories, and the Ministry of Petroleum and Chemicals offer several jobs to plastic professionals in their various positions. Companies like Motherson, Nocil, Finolex, Minda, Krishna Maruti, Trim India are potential employers. Self-employment is another opportunity available in front of them. Advanced Diploma holder, may work as instructor at relevant engineering/technical institutes or universities. Student may also pursue higher education in both mode i.e. conventional education or go for higher NSQF level certification.

**Q3.** What are the main subjects offered in the course? Is there any specialization?

**Ans.** The main focus of the program will be on two broad areas of the partner industry- Plastic processing and Mould maintenance & Manufacturing. The student will learn the skill on the defined pattern of On the Job Training and its syllabus as per the advance practices and processes being used and implemented time to time in the partnering industry.

**Q4.** What is the program methodology of Advanced Diploma in Plastic Technology?

**Ans.** The University works on innovative "On Job Training (OJT)" pivoted, credit based, dual mode- Out Campus model where On Hand experiential training is imparted on the industry shop floor and classes taken by HVSU faculties/ trainers in the classroom.

**Q5.** What are the outcome/objective of the offered course?

**Ans.**

- Provide well trained professionals for the plastics and allied industries to meet the requirement.
- Student will get hands on experience in various aspects of plastic technology viz. plastic materials and manufacturing, properties, applications, processing, product design, mold design, quality control and introduction to recycling directly on the shop floor.
- Program will help the graduates to take up responsibilities in production, design and marketing in the plastics industries and contribute for the growth of industry.
- After due experience, diploma holder can become entrepreneurs as they can easily start up processing, design and marketing units

**Q6.** What is the amount of stipend which I will be receiving from the company during my On the job training (OJT)?

**Ans.** Stipend of about Rs. 8500/- will be given during the OJT as per the industry rules/ policies as agreed by industry partner with HVSU.

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## **Course: B.Voc. (BPM and Analytics)**

### **Q1. What is Business Process Services?**

**Ans.** BPS marries the process and technology with the people who run them. It covers everything from simple task-based processes (like payment processing or document management), all the way up to the knowledge-intensive, industry-specific processes that traditional BPO doesn't usually touch. It covers any mix of people, processes and technology - not just the technology systems that carry out the processes.

### **Q2. What is the scope of B.Voc. Business Process Management & Analytics?**

**Ans.** On completion of the program students would have learned to apply quantitative modelling and data analysis techniques to solve real world business problems, successfully present results using data visualisation techniques, demonstrate knowledge of statistical data analysis techniques utilised in business decision-making, apply principles of Data Science to the analysis of business problems, use data mining software to solve real-world problems and employ cutting edge tools and technologies to analyse Data Analytics.

The application of Business Process Management & Analytics Executive or analyst is almost in all the sectors like:

- Healthcare
- Banking, Financial Service and Insurance
- IT/ITes
- Social Networking
- Telecommunication
- Education
- FMCG
- Retail
- Pharmaceutical

### **Q3. What careers are available in B.Voc. (BPM & Analytics)?**

- Ans.**
- a. NSQF level 7 graduates can pursue their career in the industries like BFSI, IT/ITes, Telecom, Pharmaceuticals, Retail, Infrastructure, Social Networking, etc.
  - b. NSQF level 7 Graduates may pursue their NSQF level 8/9/10 i.e. Masters' and Doctoral Degree in various fields such as Banking, Business Analytics, Business Administration, Hospitality & Tourism Management, Data Analyst, Big Data, Healthcare Management, etc.
  - c. Companies have recognized the immense business value which can be delivered using data. Google, Amazon, Facebook, Baidu, IBM, HCL, TCS are just some of the companies which have made investments in data products such as self-driving cars, voice / image recognition, wearable devices etc. This has caused a huge demand of skilled professional in data related jobs around the world. Job profiles such as Data Analyst, and Statistician are being largely hunted by companies. Not only they are being handsomely paid, but a career in analytics has much more to promise.
  - d. A candidate with Process Management and Analytical skills earn Rs. 13.10L yearly as compared to a candidate with only big data skills who earns Rs. 9.80 L yearly.
  - e. The demand of Process Management and Analytics across industry like Banking, IT/ITes, Manufacturing, Energy FMCG and Healthcare is high. Banking and financial contributed
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nearly 46 per cent of all analytics and data science jobs, followed by e-commerce and pharma, among others.

- f. Amazon, Citi, HCL, Goldman Sachs and IBM stand out to be the leading organisations with most number of analytics openings.

**Q4.** What type of jobs can I get after Level 4, Level 5, Level 6 and Level 7?

- Ans.**
- a. After 1st Year of Course student will be able to work efficiently on the Computers for data entries and will be able handle customer queries at Business Process Services
  - b. After 2nd Year of Training and class the student will able to work in the area of E-mail Processing; Transaction Processing, Voice processing at Domestic Level.
  - c. After completion of 3rd Year the Students will be able to work in the area of Chat Process, Voice Process Domestic/International, Health Business Processes, Data Analytics.
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## **Course: Diploma (Ethnic Foods and Sweets Processing)**

**Q1.** What Is ethnic food?

**Ans.** The ethnic foods are defined as foods originating from a heritage and culture of an ethnic group which use their knowledge of local ingredients of plants and/ or animal sources. Thus, ethnic food can be called as an ethnic group's or a country's cuisine that is culturally and socially accepted by consumers outside of the respective ethnic group.

**Q2.** What is ethnic food processing?

**Ans.** Processing of ethnic foods combines raw ingredients to produce marketable ethnic food products that can be easily prepared and served by the consumer. It typically involves activities such as mincing, emulsification and cooking (such as boiling, broiling, frying and grilling), pasteurization and many other kind of preservation and canning or other packaging.

**Q3.** Example of Indian ethnic food.

**Ans.** Aloo Tikki, Chilla, Chat, Dahi bada, Choley-Baturey, Kachori, Poori-Bhaji, Amritsari Kulche, Dosa, Daal-Baati-Churma, Indian Bread, Sarson ka saag, Chane ka saag, Baingan Bharta, Daal, Sahi Paneer, Biryani, Kheer, Rabdi, Laddo, Ghevar, Balusahi, Bengali Mithai, Petha, Imrati, Gajar Ka Halwa etc.

**Q4.** Example of Haryanvi food.

**Ans.** Besan masala roti, Mixed dal. Hara dhaniya choliya, Kadhi pakora with chawal & bajra, Malpua, Mithe chawal, Bajra masala khicdi, bura roti ghee, Bathua ka raita, Bajra aloo roti, Kachri ki chutney, Tamatar chutney, Rajma chawal, Lassi, Kheer, Halwa.

**Q5.** What are the areas where one can find employment?

**Ans.** In the Food processing companies and food research laboratories, Restaurant, Food Retailers, Catering establishment, Food wholesalers, Hospitals, Self-employment etc.

**Q6.** What are the main course which will be taught in 1 year programme?

**Ans.** Food Science, Haryanvi cuisines, Convenience food making, Traditional snacks & savoury making, Baking technician, Cottage cheese maker, Indian ethnic food, Indian sweets, Entrepreneurship development, Communication skills, Yoga.

**Q7.** What will be my career Opportunities after L4, L5.

**Ans.** 1<sup>st</sup> Semester:

- (a) Operator Convenience Food Making
- (b) Operator Snacks & Savoury Processing

2<sup>nd</sup> Semester OJT comprise of training that will enable the student to become job ready for the job-roles of Ethnic Foods & Sweets Maker or a Supervisor in such industry.

**Q8.** What is the amount of stipend which I will be receiving from the company during my On job training?

**Ans.** Around Rs .7000/- per month.

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## **Course: Post Graduate Diploma (Public Health)**

**Q1.** What is Public Health?

**Ans.** Public Health is the discipline which works to prevent disease and promote health through organised efforts. While doctors treat people who are sick, the public health workforce work to prevent people from taking risk in the first place.

**Q2.** What is the scope of this programme?

**Ans.** This program will enable the student to comprehend basic concepts, scope and importance of public health, conduct basic data analysis and interpretation to identify gaps in various public health programmes.

**Q3.** What careers are available in Public Health?

**Ans.** The careers in Public health may entail the following:

- a. Plan and conduct Public Health studies.
- b. Collect and analyse data
- c. Refer patients and clients to assistance programmes.
- d. Plan rehabilitation care
- e. Respond to environmental disasters or other crisis situations

**Q4.** What types of jobs can I get after completing the course?

**Ans.** For Public Health professionals the roles are in variety of areas from Project Managers to Analysts which are as following:

- a. Project Managers
- b. Health Administrators
- c. Health Educator
- d. Public Health Officer
- e. Social Worker
- f. Statistician

**Q5.** What type of organizations will give employment?

**Ans.** The employment will be available in following type of organisations

- a. Public Health Departments
  - b. NGOs
  - c. Consulting Organisations
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## **Course: Post Graduate Diploma (Geo-Informatics)**

**Q1.** What is Geo-Informatics?

**Ans.** Geo-Informatics is a new technology which is the integrative capabilities of Geographical Information Systems (GIS) Remote Sensing and GPS. It is emerging as critical components in the global infrastructure, in universities and in society.

**Q2.** Why Geo-Informatics?

**Ans.** Recognize, establish, and acquire spatial data related to projects in their field of interest, as well as identify noteworthy gaps in or problems with existing information.

**Q3.** What are applications of Geo-Informatics?

**Ans.** Disaster Management

- Flood Forecasting
- Drought Analysis
- Forest Fire
- Earthquake
- Tsunami Damage
- Heat Wave
- Landslide Mapping
- Search and Rescue
- Oil Spill

Agriculture Management

- Agriculture Revenue
- Real-time Crop Yields
- Crop Forecasting
- Current food security
- Future food demand
- Length of growing period
- Water stress & soil moisture

Climate Change

- Sea Level Rising
- Desertification
- Pollution Modelling
- Land surface Temperature Change
- Smog
- Effect of climate change on Coral reefs

Urban planning

- Land use management,
  - Land availability and development monitoring.
  - Transport strategic planning
  - Public facilities and shops catchment area and
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#### Environment Assessment

- Site selection for solid waste
- Environmental Impact Assessment
- Forest Cover Mapping
- Forest Type Mapping
- Forest Inventory
- Sustainable Mining
- Wetland Inventory
- Mangrove assessment
- Deforestation
- Afforestation
- Changes analysis of Timber line
- Wild life management

And others such as Mining, Archaeology, Geography, Cartography, Transport management, Rural Development, Decision Support System, Water management, Weather forecasting, Marine Science etc.

**Q4.** What is the scope of Geo-Informatics?

**Ans.** GIS is used within community and regional planning, disaster management, landscape architecture, agriculture, urban planning, transport planning, geology, archaeology, civil engineering, and natural resource ecology management, etc.

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