

7.3.1. Other: Performance of the institution in the area distinctive to its priority and thrust

1. Major and Minor Projects

1(a) Minor Projects:

It is a known fact that projects are given the highest weightage in core company placements & higher studies admissions at esteemed universities. Doing minor project in the right way will help students as recruiters recognize that individual student is capable to work with time & resource constraints with an excellent output. Minor projects are being opted by the students in third year of their B. Tech Degree in JUIT in each department. Minor projects are being chosen by the students after the discussion with concerned faculty with whom student wishes to do the project. Some important points are being considered while selecting the minor project:

- 1. Based on the current technology trends:** As minor projects provide an effective platform to get skilled on technologies, so that the latest technologies are considered to work which are currently trending.
- 2. Application to the real time problem:** Any minor project should give some application or real time solution such as a social cause or an environmental issue.
- 3. Feasibility of minor project.**
- 4. Knowing about previously done minor project in the university:** Students advised to go through the department records to understand what kind of minor projects have already been done and to find how one can improvise it.
- 5. Literature surveys:** A lot of Ph.D scholars work on a project for years and publish research papers on them. Therefore, students go through the journals from public forums to learn about already completed projects and the methodologies they have followed.
- 6. Get expert assistance as and when needed:** Since students have very limited time, it is impractical to learn a completely new technology and integrate into minor project. Therefore, students advised to choose the appropriate mentors to assist greatly in getting technical assistance as and when needed.

1(b). Major projects:

The final year project signifies a milestone in an engineering student's life. It helps to bridge the gap between theory-based learning and skills-based learning and fulfill the purpose of synthesizing the knowledge acquired and demonstrating the student's aptitude. It helps to strengthen student's core skills and prepares them for future challenges. An innovative and worthwhile final year project helps to provide practical exposure that helps to enhance problem-solving skills, management skills, research, and analysis of the students.

- To explore their area of interest and work.
- To take up responsibilities; participate in group discussions to enhance their knowledge.
- To take up projects that are research-based and industry-oriented that can add value to student's resume.

Students are being directed to take in consideration few important points for final year project selection and development:

1. The best way to identify a project idea is to address real-time problems and develop relevant solutions. It helps to incorporate student's innovation and critical thinking skills. That can enhance and boost creativity and work on various projects that suit interests of the students. It helps students be aware of various technological trends and the feasibility of completing the final year project and give a larger vision and helps to ignite ideas for startups.

2. Importance of literature survey related to the area which student is going to choose for the major project. For example if student plans to work on a blockchain project he/she should read the research papers or journals to understand the recent technological advancements. It helps derive insightful findings and bring exciting solutions to pitch for various projects.

3. Major final year projects enable students to participate in group discussions and brainstorming sessions possess the required skills and knowledge. Working on a project with multiple ideas helps discover distinct ideas and approaches towards a single task. It helps enhance and develop problem-solving, management, and creative thinking skills.

4. Project documentation and presentation are some important aspects and helps to present the project in a prescribed format to the officials, which is helpful for future credentials. It helps enhance superior industrial skills and depict the core idea or vision behind developing the project prototype.

5. These projects help students to gain a competitive advantage and enhance communication

skills. Project planning skills help students gain experience, arena for new creative ideas, and bring out insightful project ideas for future endeavors. Here we present the final vital takeaways about project development planning:

- Analyze the project at every stage of documentation or presentation.
- Aim to improve your industrial skills to stand out among others.

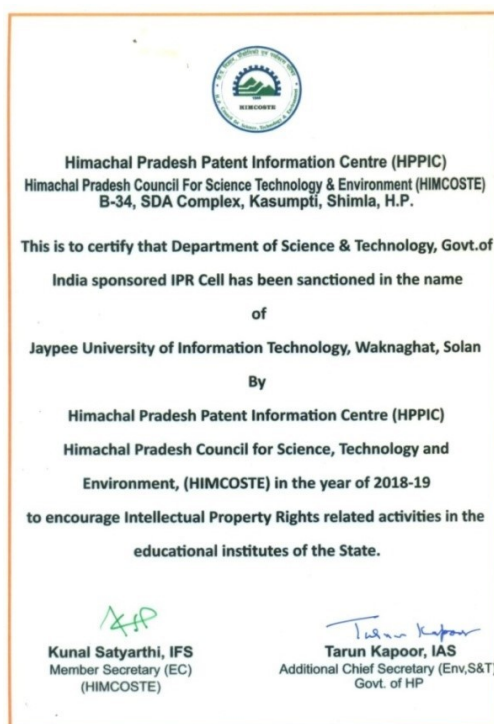
2. IPR CELL

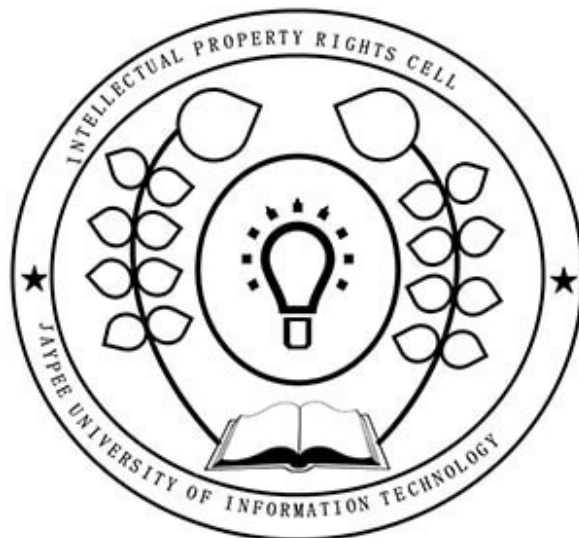
<https://www.juit.ac.in/ipr-cell>

IPR Cell of JUIT is TIFAC, DST sponsored working in collaboration with HP Patent Information Centre. IPR Cell offers IPR education; ensure identification, protection, and commercialization of innovations arising out of research work carried out in the University. The cell also activity involves in identifying GIs and imparting awareness to all stakeholders.

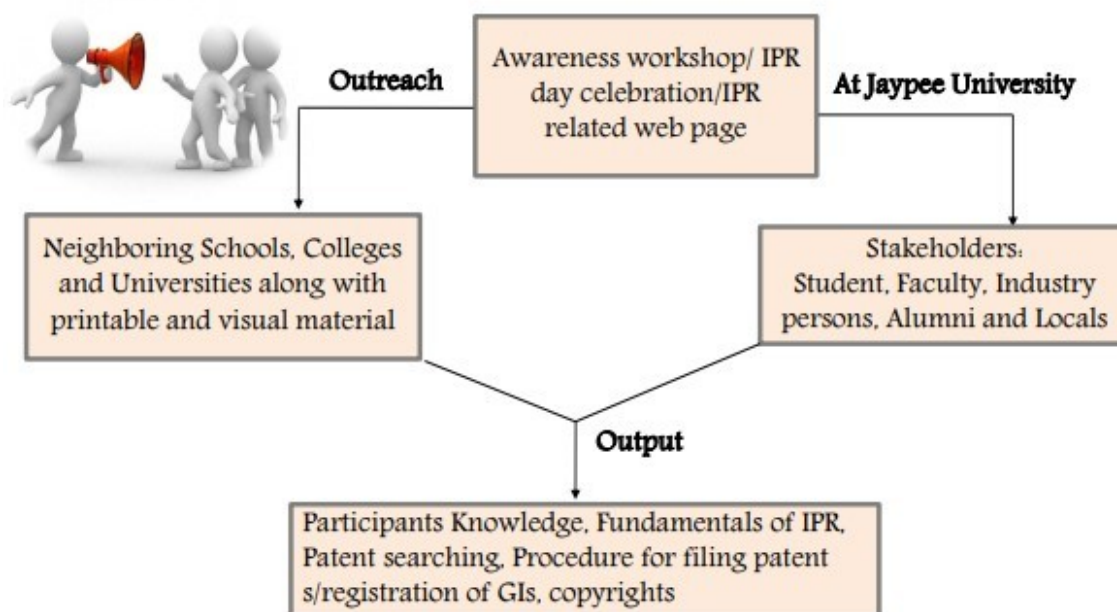
OBJECTIVES:

- To create awareness about IPRs in the University and neighboring institutions/universities/industries of HP
- To enable Patent search through HP Patent Information Center
- To provide technical assistance to inventors, locals regarding their inventions/GIs
- To promote better understanding of IPR and to identify more and more IPs

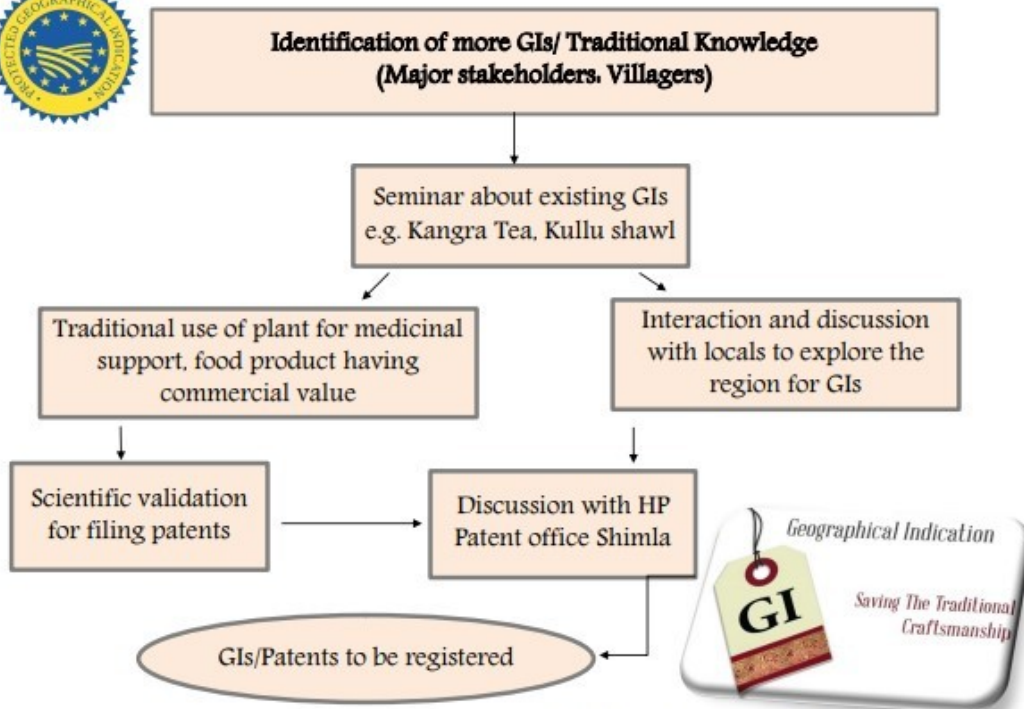




Action Plan: Awareness Drive



Additional Resources. Literature Hindi/ English

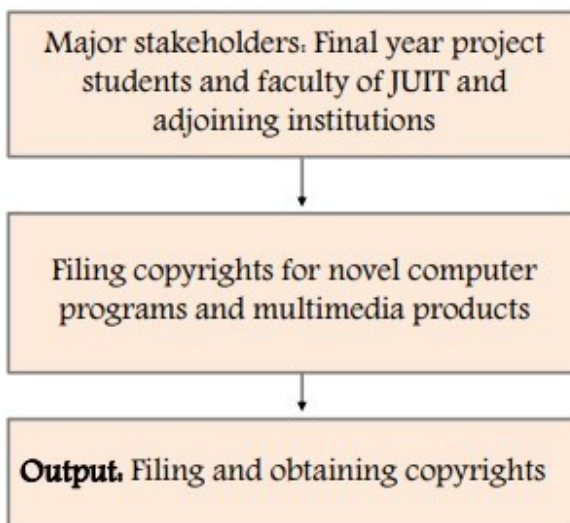


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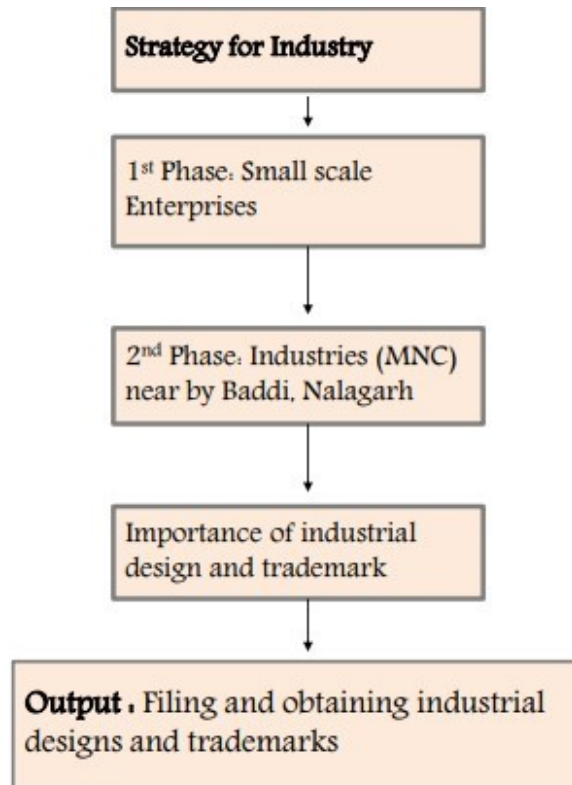


Copyrights



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PATENT STATUS OF JUIT

- International Patents
- List of Patents Granted
- Patents granted to other institutes with Inventor in JUIT
- List of Patents Published
- Patents published from other institutes with Inventor in JUIT
- List of Patents Filed
- Patents filed from other institutes with Inventor in JUIT
- Copyrights
- Design Registrations
- Trade Mark

<https://www.juit.ac.in/patent-status-ipr>

IPR CELL POLICY

JUIT recognizes the importance of innovations and assists in translating them into products, processes and services for both commercial benefits and achieve the widest public good. The features of this IP Policy aim to meet such needs. IP policy is designed to identify, protect and leverage the bouquet of IPs that is generated from research, patents, copyrights, design rights and trademarks amongst others, that serve the purpose of knowledge diffusion and commercialization. JUIT acknowledges the intellectual assets like patents, copyright, know-how, designs and other creative and innovative products generated during the scientific, R&D pursuits of its faculty and its students which provide a competitive edge to the university. It, therefore, has formulated its IP policy to provide guidance to its faculty, staff, students, research scholars and outside agencies on the practices and rules of the Institute regarding Intellectual Property Rights (IPR) and obligations which include its ownership, commercial exploitation, technology transfer and end confidentiality requirements. The policy is expected to promote a conducive environment for both curiosity driven and market-driven research and development activities at JUIT and creation of original works of authorship. Nothing in this Policy overrides provisions of prevailing national law including The Patents Act, 1970 and Patent (Amendment) Rules, 2016.

2. Scope This policy covers all rights arising from the intellectual property devised, created or generated by the faculty members, staff, students, research scholars persons employed in sponsored research and consultancy projects and consultancy projects and visiting scientist/ professors/ professionals who participate in teaching/research work being carried out at the Institute either on full-time/part-time basis. The IP arising from academic research includes patents, designs, copyright, Plant Breeder's Right, know-how and undisclosed information

Identification, disclosure and commercialization of Intellectual Property

a. JUIT encourages Researchers to identify research results with potential commercialization value, which may enhance the reputation of the Institute through bringing them to public use and benefit. Researchers shall be required to present in writing the draft-publications containing scientific results to the relevant Head of Department before publishing them, and

shall state in writing that, to the best of their knowledge such works do not contain any results for which protection may be obtained or which can be exploited in any way.

b. Researchers, including employees, students and Visiting Researchers are obliged to disclose all Intellectual Property falling within the scope of Paragraph 4.1 to JUIT IPR Cell.

c. Copyrighted Works shall be excluded from the disclosing obligation set out in Paragraph 4.2 except for those which were developed in the performance of a sponsored research or other third party agreement.

d. Since protection and successful commercialization of Intellectual Property might depend on prompt and efficient administration, Inventors are required to disclose all potentially exploitable Intellectual Property as soon as they become aware of them. The disclosure must be made in writing by completing the Intellectual Property Disclosure Form available from the JUIT IPR Cell.

e. Inventors shall fully disclose all research activities and results relevant to the Intellectual Property and provide information about themselves, in particular the percentage of their contribution to the creation of the Intellectual Property and the circumstances under which it was created. **f.** In case of incomplete disclosure, the form may be sent back to the Inventor(s) requesting for additional information. The date of disclosure shall be the day on which the person or department designated by the Institute receives the full disclosure signed by all Inventors.

g. Premature disclosure may compromise the protection and commercialization of Intellectual Property. To avoid any loss of potential benefits, Researchers are required to make reasonable efforts to identify Intellectual Property early in the development process and consider the consequent impacts of any public disclosure.

h. After full disclosure of all relevant information the person or department shall record the Intellectual Property in JUIT IP register.

i. A Committee shall be constituted, as and when need arises, by JUIT for making decisions for Patent commercialization, such as the ones concerning the terms of an assignment/licensing agreement or establishment of a spin-off enterprise, on a case-by-case basis, giving due consideration to all circumstances.

j. JUIT may decide not to apply for registered industrial property protection or may withdraw an unpublished application, if it is more appropriate for the purposes of commercialization to

treat the Intellectual Property as a confidential know-how. In such cases Inventor(s) shall be requested in writing to refrain from any public disclosure of the Intellectual Property.

k. Intellectual Property not falling within the scope of Paragraph 6 may also be disclosed to the Institute by Researchers under the terms of this Policy. In such cases the Institute shall decide,

within days from the full disclosure of all relevant information, whether to exploit the Intellectual Property.

l. During the evaluation and commercialization period the full description of the Intellectual Property shall be disclosed to third parties under a confidentiality agreement

<https://www.juit.ac.in/IPR/IPR%20Policy.pdf>

Faculty members

<https://www.juit.ac.in/IPR/IPR%20Team.pdf>

Student members

<https://www.juit.ac.in/ipr-student-members>

PAST EVENTS

https://www.juit.ac.in/ipr-past_events

3. Teaching Assistance ship (Fellowship) for Ph. D. and M. Tech Students

A PhD and M. Tech degree is regarded as one of the highest academic accomplishment in any field of studies, and it helps a scholar to earn the right of being referred as a masters and doctor of philosophy respectively. A student who wants to have expertise and wishes to gather in-depth high level knowledge and understanding of a particular subject pursue a M. Tech or PhD degree. It allows them to acquire research, academic, administrative, industrial, managerial and clinical positions in their respective fields of study.

This may cost a fortune to the individuals. Thus, to encourage students to pursue higher

levels of research in their respective fields of study, various government and private institutions offer PhD scholarships. These scholarships help students in pursuing their research and completing their thesis. Generally, fellowships are opportunities lasting 1-3 years and focus on the professional development of the fellow.

The duration of a PhD program varies from 4-5 years and thus the financial costs become a burden for many. Therefore, here in JUIT a rigorous selection procedure for the Ph.D. qualification has been opted where candidate first needs to clear the written examination followed by the panel interview. During the tenure of Teaching Assistance ship selected Ph. D. student will be engaged for few hours per week assisting in UG and PG laboratories.

4. OUTREACH ACTIVITIES

<https://www.juit.ac.in/outreach-activities>

Science and engineering outreach, also called Education/Public Outreach is an umbrella term for a variety of activities by research institutes, universities, and institutions aimed at promoting public awareness of science and engineering and making informal contributions to the education. In JUIT we aimed to provide awareness to the schools in H.P. or nearby states for the same purpose.

Public talks/ lectures/ discussions

Visiting secondary schools

School students and teachers are an important target group for science outreach. Outreach activities include visiting schools, giving talks at assemblies, discussions with students, or participation in events such as career fairs and science and technology camps.

Workshops/schools for teachers and/or students

Inviting groups of school students to our campus for lab visits and workshop. Lectures for various discipline will be delivered to those students. Another method of science outreach invites school teachers to participate in workshops where they are able to learn effective strategies to engage students in science.

Supporting science fairs and similar events

Besides organizing independent events, we also support existing events that promote sciences awareness. JUIT faculty and staff regularly participate in International, National and state level science and engineering events for this purpose.

Training on working of Biogas Reactor - Air Force Station, Chandigarh

Anaerobic digestion of food waste produces biogas which is used for cooking or lighting. We installed the biogas reactor for the utilization of wastes for generating biogas in the 3BRD Air Force Command station Chandigarh in last month on dated 21 September 2020.

ACTION PLAN

The Outreach team has a focus on working with schools in the H.P. and nearby states to raise aspirations and improve motivation among local students in order to widen participation in higher education. Our outreach programmes give participants the opportunity to find out what it's like to study and work in subject specific areas across the whole University. Each of these programmes also provides practical help with study techniques, support and an introduction to life at the University.

We seek to provide impartial information and advice to support subject choice for and options and future higher education progression. We also work with teachers and advisers so that they can provide appropriate guidance to their students. All of our activities, are provided free of charge to schools. When selecting students for participation in an activity, we ask schools to give priority to students from groups who are currently under represented in higher education and who have the potential to progress to university.

PAST EVENTS

https://www.juit.ac.in/outreach-past_events

News coverage

<https://www.juit.ac.in/outreach-outreach-news>

5. UNNAT BHARAT ABHIYAN

Unnat Bharat Abhiyan is a flagship programme of Ministry of Education (MOE), Govt. of India that aims to bring transformational change in rural development. The scheme aims to link higher educational institutions with at least five villages, so that they can contribute to economic and social betterment of villages. Jaypee University of Information Technology, Waknaghat is an active participating Institute for UBA. Five villages in vicinity of university campus (Chawsha, Richhana, Bisha, Wakna, and Dumehar) have been adopted for enhancement of their standards of living, better environment for education and living.

Vision:

Unnat Bharat Abhiyan is inspired by the vision of transformational change in rural development processes by leveraging knowledge institutions to help build the architecture of an Inclusive India

Mission:

To enable higher educational institutions to work with the people of rural India in identifying development challenges and evolving appropriate solutions for accelerating sustainable growth. It also aims to create a virtuous cycle between society and an inclusive academic system by providing knowledge and practices for emerging professions and to upgrade the capabilities of both the public and the private sectors in responding to the development needs of rural India.

Goals:

- To build an understanding of the development agenda within institutes of Higher Education and an institutional capacity and training relevant to national needs, especially those of rural India.
- To re-emphasize the need for field work, stake-holder design for societal objectives as the basis of higher education.
- To provide rural India and regional agencies with access to the professional resources of the institutes of higher education, especially those that have acquired academic excellence in the field of science, engineering and technology, and management.
- To develop new professions and new processes to sustain and absorb the outcomes of

research.



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Link on the JUIT site: <https://www.juit.ac.in/unnat-bharat-abhiyan>

6. Covid Relief and Fee concession for Military Wards

The primary objective of the Indian Army is to safeguard the nation's territorial integrity from external aggression and threats and maintain peace and security within its borders. The military, or armed forces, protects our country's land, sea, and airspace from foreign invasion. The army performs dozens of missions such as disaster response, safe guarding in case of any internal riot or conflict.

But when a service member is injured or dies in a combat zone, the consequences for his or her family can be profound and long-lasting. Although the Indian government provides family pension to the retired military personnel and also provides pension to the war widows and their children. The amount of pension depends on the rules governed by the government. These families can survive with this amount of pension. Schooling of military personnel's children is possible also several other kinds of facilities and relaxation are given at some

places for these children. It is difficult to the children of ex-serviceman or the children of war widow to bear the expenses of higher education. Everyone should contribute in some capacity to help these children. In JUIT the relaxation in the fees for the military wards is being given since academic year 2019-2020. According to this criterion 30% tuition fees concession to wards of serving and retired Armed Forces and paramilitary forces personnel for Undergraduate programs is being given. An additional 5 percent (30+5=35%) discount in tuition fee for wards of war widows is being also given. For undergraduate courses here in JUIT 10 percent seats are reserved for such categories. In last few years number of military ward get benefited through this scheme and made their carriers.

Fee relaxation during Corona times

The corona crisis in the country for the last two years has had a profound impact on the lives of the people and caused great emotional, psychological, financial, and social distress. The coronavirus crisis has created a massive disruption in the financial “norm” of higher education.

JUIT, as a part of its social commitments, has a responsibility of helping students who are facing hardship to continue their studies. In view of COVID-19, the Management has approved a onetime special COVID relief package (CRP) of reduction in tuition fee by 20 percent for academic year 2020-21. The Management has also approved a onetime special COVID relief package (CRP) of reduction in tuition fee by 12.5 percent for academic year 2021-22 only. So, that the students and parents had relief in these tough times.

7. Summer and Industrial Training

The purpose of Industrial Training is to expose students to real work environment experience and to gain the knowledge through hands on observation and job execution. From the industrial training, the students will also develop skills in work ethics, communication, management and others. Industrial training is beneficial to the students. It significantly improved their 'attitude', 'communication', 'work attitude'. The experience gained has given them the opportunity with better employment prospects. Moreover, this practical training program allows students to relate theoretical knowledge with its application in the manufacturing industry. The objectives of industrial training are:

- To provide students the opportunity to test their interest in a particular career before permanent commitments are made.
- To develop skills in the application of theory to practical work situations.
- To develop skills and techniques directly applicable to their careers.
- Internships will increase a student's sense of responsibility and good work habits.
- To expose students to real work environment experience gain knowledge in writing report in technical works/projects.
- Internship students will have higher levels of academic performance.
- Internship programs will increase student earning potential upon graduation.
- To build the strength, teamwork spirit and self-confidence in students life.
- To enhance the ability to improve students creativity skills and sharing ideas.
- To build a good communication skill with group of workers and to learn proper behavior of corporate life in industrial sector.
- The student will be able instilled with good moral values such as responsibility, commitment and trustworthy during their training.