NARESH VASHISHT CENTRE FOR TINKERING AND INNOVATION

नरेश वशिष्ठ टिंकरिंग एंड इनोवेशन केंद्र

INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES) DHANBAD, JHARKHAND, INDIA 826004
nvcti@iitism.ac.in | www.iitism.ac.in | 0326- 2235870

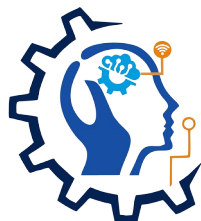## MINOR IN PRODUCT DEVELOPMENT INTERNSHIP (PDI) PROGRAM

1. OBJECTIVE

To create a dynamic product development ecosystem by engaging students through an internship program focusing on converting innovative ideas into a product or process.

2. PROGRAM DETAILS

a) Academic section of the Institute will run a Minor program in Product Development Internship (PDI) for the UG students of IIT (ISM). The program will be offered by NVCT, IIT (ISM) Dhanbad

b) **Eligibility for Minor in PDI**: All UG students of IIT(ISM) Dhanbad who have completed at least two regular semesters in the institute, are eligible for the Minor in PDI.

c) The courses under PDI will be floated in every Summer, Monsoon, and Winter semesters.

d) Minor in PDI will begin from the date of joining for the program at the start of each semester and continue for a period of maximum 12 months, subject to satisfactory performance of the student.

e) The students will have to register in each of the three semesters (one course in each semester). Each course will be of **9 credits.**

f) There will be no registration fee for the course.

g) A student must earn a total of **27 credits** in three semesters to obtain the Minor in Product Development Internship in the chosen domain. The students will be required to complete the Minor program in three semesters.

   However, those who want to leave the MPDI program in between the specified duration owing to successful completion of the project, will be awarded with a Certificate of Internship of the total availed duration, and the concerned student(s) will not be eligible for a minor degree.

h) Depending on the performance of students in the registered courses, letter grades will be awarded and displayed on the Grade Sheet of the respective semester. *However, the credit will not be counted towards the calculation of SGPA and CGPA.*

i) Student(s) will have to register for the following courses (one course in each semester in a series) in the above-mentioned program:

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LIST OF COURSES

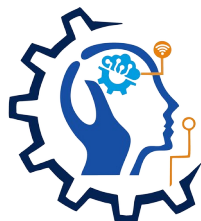| Sl. No.	Course Code	Name of the course	L-T-P
		SERIES – 1	
1.	IEN601	Internship in Smart Manufacturing-1	0-0-9
2.	IEN602	Internship in Robotic Technology-1	0-0-9
3.	IEN603	Internship in Electronics and IoT-1	0-0-9
4.	IEN604	Internship in Data and Software Technology-1	0-0-9
5.	IEN605	Internship in Animation and Game Design-1	0-0-9
6.	IEN606	Internship in Electric Mobility-1	0-0-9
7.	IEN607	Internship in Finance Technology-1	0-0-9
8.	IEN608	Internship in Aeronautics and Space Technology-1	0-0-9
		SERIES – 2	
1.	IEN609	Internship in Smart Manufacturing-2	0-0-9
2.	IEN610	Internship in Robotic Technology-2	0-0-9
3.	IEN611	Internship in Electronics and IoT-2	0-0-9
4.	IEN612	Internship in Data and Software Technology -2	0-0-9
5.	IEN613	Internship in Animation and Game Design-2	0-0-9
6.	IEN614	Internship in Electric Mobility -2	0-0-9
7.	IEN615	Internship in Finance Technology-2	0-0-9
8.	IEN616	Internship in Aeronautics and Space Technology-2	0-0-9
		SERIES – 3	
1.	IEN617	Internship in Smart Manufacturing-3	0-0-9
2.	IEN618	Internship in Robotic Technology-3	0-0-9
3.	IEN619	Internship in Electronics and IoT-3	0-0-9
4.	IEN620	Internship in Data and Software Technology -3	0-0-9
5.	IEN621	Internship in Animation and Game Design-3	0-0-9
6.	IEN622	Internship in Electric Mobility -3	0-0-9
7.	IEN623	Internship in Finance Technology-3	0-0-9
8.	IEN624	Internship in Aeronautics and Space Technology-3	0-0-9

3. APPLICATION PROCESS

a) NVCTI will invite applications from the UG students at the beginning of the Summer, Monsoon, and Winter semesters as per the following timeline (preferably).

   i. February-March (For Summer Semester)

   ii. May-June (For Monsoon Semester)

   iii. November-December (For Winter Semester)

b) Students may apply for the program in the subject areas of the Technology Clubs of the institute by submitting a project proposal in the prescribed format within the announced timeline, well before the commencement of the semester (Monsoon, Winter, or Summer).

c) Students can apply individually or in a team consisting of a maximum of three students. While applying, the role and responsibility of each team member must be clearly specified.

d) The proposal must be novel, innovative, and original. An undertaking is required to be submitted by the applicants regarding the originality of the proposal.

e) The maximum intake for the Minor in PDI will initially be capped at a total of 50 interns per semester.

4. SHORTLISTING PROCESS

a) It is advisable that the project proposal is endorsed by a faculty mentor (having expertise in the domain area) before submission.

b) Applications will be shortlisted by a committee comprising of HOC, FICs of NVTIL, and Club Faculty In-charges.

c) A list of shortlisted applications will be released by the end of April (For the Summer Semester), July (For the Monsoon Semester), and November (For the Winter Semester).

5. FACILITIES, STIPEND, AND PROGRESS EVALUATION

a) The student(s) will be allowed to use the NVCTI lab facilities during the internship period. Additionally, if needed, students will also be allowed to access any other laboratory/workshop of the institute with permission from the concerned lab-in charge/HoD.

b) Consumables/Contingencies will be provided to the students from NVCTI as and when required.

c) *During the PDI, a stipend of INR 6000/- per month will be admissible to the students during regular semesters. However, a stipend of Rs. 8,000/- will be given for working in NVCTI during summer semester by staying in the campus. Stipend will be provided for a maximum of 12 months period. The stipend will be released at the end of each month. However, no stipend will be provided for the period during which a student is engaged in some external internship/assignments/ academic programs during the MPDI program.*

d) Registered students will be kept on probation initially for a period of two months. The same may be extended depending on performance in the project. Due internship amount will be released only after the completion of the probation period.

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e) A student registered under the program can avail internship/fellowship/financial support only from one source at a time during the course duration.

f) The progress will be evaluated at the end of every month during the entire course duration. The progress will be monitored by a committee comprising the FICs of NVTIL and the student's faculty mentor (or a team of students) and chaired by the HoC/NVCTI. Committee will submit a report stating the nature of progress either 'Satisfactory'(S) or 'Unsatisfactory'(X).

g) In a Semester, after the first unsatisfactory report, the student will get a warning note. After two consecutive unsatisfactory reports, the stipend will be temporarily stopped. After three unsatisfactory reports, the internship will be terminated, and grade "X" will be given for the MPDI program in the enrolled semester.

h) Undisciplined activities reported during the internship period will also result in the termination of the internship and assignment of the "F" grade.

6. IP, PRODUCT COMMERCIALIZATION, AND INCUBATION

a) NVCTI through its pool of industry-based mentors/collaborators will help in the commercialization of a product developed. Moreover, interested inventors and mentors will also be supported to incubate the start-ups at the institute's incubation Center with active support from industry-based mentors/collaborators in fundraising, scaling, and acceleration.

b) All Intellectual Property created under the PDI shall belong to IIT (ISM) Dhanbad. The IPR policy of the institute will be applicable for the uses of IP by inventors/owners.