VISVESVARAYA NATIONAL INSTITUTE OF TECHNOLOGY, NAGPUR

Summer Internship Program (SIP) (Online mode only) at VNIT, Nagpur

Brief:

A student enrolled in a reputed institution is encouraged to apply for summer internship program (SIP) at VNIT, Nagpur. The students would be given an opportunity to work on research/consultancy oriented project component under the able guidance concern supervisor.

Rules & Regulations for undertaking internship at VNIT for summer 2021

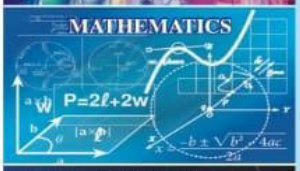
- Students who have completed 3rd year BE/BTech, 3rd or 4th Year B. Arch/BS-MS (Integrated MSc Courses) or 1st year MSc course at any recognized university or institutes are eligible to enroll as interns. Student having first class or CGPA higher than 6.75 in the latest grade card will be considered for SIP.
- This scheme will be available to outside VNIT students as well as VNIT students.
- *The total time duration for SIP 2021 is 24th May- 16th July 2021.*
- The duly filled application form (Hard copy) should reach to Dean, Academics on or before 07th May, 2021. The applications will be evaluated and selected scholars shall be intimated by the respective departments.
- The selected scholar needs to complete the joining formality by depositing joining fees (Rs. 5000 for VNIT student) (Rs. 5000 + Rs. 900 (*GST for non-VNIT Students*) = Rs. 5900/-) by Demand Draft favoring Director, VNIT) to the Dean (Acad) office on or before 20th May, 2021 (Thursday). The student must write his/her name and mobile number at the back of the DD.
- Internship taken against R & D project will get re-imbursement of fees from the project fund, after successful completion of internship.
- It is expected that at the end of internship, candidate will come out with tangible result such as conference/journal paper, development of lab experiment, filing of patent, etc. The intern will be required to give a seminar in the respective department at the end and submit a report to department head.
- The whole process will be monitored by office of Dean (Acad). A certificate of internship will be given to all interns after successful completion. A certificate will be signed by respective faculty in charge, HOD & Dean (Acd).
- During the internship period, the candidate will have to abide by all prevailing rules and disciplinary guidelines of the institute.

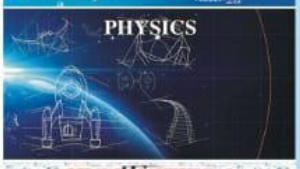
Summer Internship Program (SIP) - 2021 (Online Mode) at VNIT, Nagpur

Excellent Opportunity for Students to Work for Internship at VNIT Nagpur, for Skill Development.

ARCHITECTURE AND PLANNING

BASIC SCIENCE





BRIEF

Scholars at undergraduate, PG or doctoral level enrolled in reputed institutions are encouraged to apply for summer internship program (SIP) at VNIT as per the prescribed guidelines. The students would be given an opportunity to work on research/consultancy oriented project components under the able guidance of the concerned supervisors.

Total time duration for SIP 2021 is from 24th May- 16th July 2021.

Hard copy of the completed (SIP) application form should reach the Dean Academic, VNIT, Nagpur on or before 07th May 2021. The applications will be evaluated and selected scholars shall be intimated by the respective departments. The selected scholars need to complete the desired joining formalities by depositing fees (Rs. 5,000 + Rs. 900 (GST) = Rs. 5,900/- by Demand Draft favoring Director, VNIT) in consultation with respective supervisor on or before 20th May 2021. The internships are to be conducted through online mode only. Physically working in campus is not possible due to prevailing conditions.

1) List of Summer Internship Projects is available on the website along with the respective supervisor.
2) Interested scholar should contact the supervisor based on the topic/title of the project offered.
3) Scholar should seek consent from the respective supervisors.
4) Scholar should submit dully filled application form.
5) Separate application should be submitted for every topic selected.

ENGINEERING

General Instructions for Students :

1. The period of work should not be less than 6 weeks including Sundays and Holidays under any circumstances. If the final duration turns out to be less than 6 weeks, the internship will not be deemed to have been satisfactorily completed to entitle to the certificate.
2. All correspondence and enquiries should be addressed to the Dean Academic, Visvesvaraya National Institute of Technology, South Ambazari Road, Nagpur 440010.
3. Summer interns must strictly follow the rules and regulations (oral and written) stipulated by VNIT. If any mal practice on the part of the summer intern is reported, the VNIT will be constrained to terminate their fellowship.
4. Based on specific supervisor's satisfactory recommendation the scholar will be entitled for the award of certificate.
5. For any accident occurring during the summer intern program, VNIT or Faculty or staff members involved in the programme will not be responsible.
6. Student has to sign indemnity bond prior to start of SIP.

SIP Certification :

After completion of the program, hard copy of the detail project report and no dues form duly signed by the guide, should be send to dean academic office. The SIP certificate shall be released for the successful scholars by post.

For more details, please follow the link : http://vnit.ac.in/wp-content/uploads/2021/01/Summer_Internship_Program-for_website.pdf

S.N.	Name of Faculty	Email id	Department	Broad Area of Internship (Only online mode)	Pre-requisite if any	Students core discipline choice if any	Remark if any
1	Dr. Ratnesh Kumar	ratneshkumars@apm.vnit.ac.in	Applied Mechanics	Design and development of low-cost post-disaster emergency shelters using bamboo	Knowledge of basics of structural design and IS codes	B. Tech. in Civil/Structural engineering or M. Tech. in Structural Engineering/Structural Dynamics/ Disaster Management	2 UG/1 PG
2	Dr. A Y Vyavahare	ayv@apm.vnit.ac.in	Applied Mechanics	Analysis and Design of PEB structures	Knowledge of design od steel structure, finite element analysis	B. Tech. in Civil/Structural engineering or M. Tech. in Structural Engineering/Structural Dynamics	2UG / 1PG
3	Dr. Sameer Deshkar	smdeshkar@arc.vnit.ac.in	Architecture & Planning	Climate Change Adaptation, Resilient Cities, Environmental Planning	Completed Urban Planning/ design course at UG Level, PG students to be well versed with GIS	B. Arch./ B. Plan./ B.Tech. (Plan), Masters in Urban Planning/ Regional Planning/ Environmental Planning	3 UG / 2 PG / 1 Ph.D Scholar
4	Dr. Kailas Wasewar	klwasewar@che.vnit.ac.in	Chemical Engineering	Mathematical Investigation on Recovery / Separation of Valuable Biochemicals as Biorefinary Approach	Knowledge of mathematical modeling	BTech/BE 2nd year completed and above including MTech/MSc in Chemical Engg./Technology / Biotechnology/ Biochemical/ Chemistry / Environmental / Bioprocess	3 UG / 2 PG

5	Sachin Mandavgane	sam@che.vnit.ac.in	Chemical Engineering	Design of biorefinery process	Unit operations and unit processes	B.Tech/ M Tech Chemical/Bio Tech/ Environment	2 UG/PG (Students should have studied coureses like Mass Transfer, Mechanical Operations)
6	Dr. A. S. Chaurasia	aschaurasia@che.vnit.ac.in	Chemical Engineering	Computational Studies of Biomass Gasification Processes for Valuable Products.	Basic Knowledge on design, modelling and simulation	BTech/BE 2nd year completed and above including MTech/MSc in Chemical Engg./Technology / Biotechnology/ Biochemical/ Chemistry / Environmental / Bioprocess/Energy/Environment	2 UG/2PG
7	Dr. Chayan Das	chayandas@chm.vnit.ac.in	Chemistry	Synthesis and characterisation of nanocomposites	Basic knowledge of Chemistry	M.Sc in chemistry/ Material Science	2 students (PG Final year /PG passed out)
8	Dr. Anupama Kumar	anupamakumar@chm.vnit.ac.in	Chemistry	Selective extraction of phytochemicals from Biomass waste		M.Sc in chemistry/ biochemistry /biotechnology/ microbiology/ environmental.	2 PG students

9	Dr. Anupama Kumar	anupamakumar@chm.vnit.ac.i n	Chemistry	Theoritical studies of Phytochemicals		M.Sc in chemistry/ biochemistry /biotechnology/ microbiology/ environmental.	1 PG student
10	Dr. Srinivasan V	srinivasanv@civ.vnit.ac.in	Civil Engineering	Evaluation of foundation systems	Strong basics in Engineering mechanics, Mechanics of Solids, Numerical methods, Engineering Mathematics	B Tech in Civil Engineering, 2nd year and above, M Tech in Geotechnical Engineering/Allied disciplines	2 UG, 2 PG
11	Dr. Ashwini Mirajkar	abmirajkar@civ.vnit.ac.in	Civil Engineering	Water Resources Engineering/ Reservoir operation/ irrigation planning	Irrigation Engineering /Hydrology	-	2 UG, 2 PG
12	Dr. Rahul V Ralegaonkar	rvralegaonkar@civ.vnit.ac.in	Civil Engineering	Evaluating building performance by simulation	Knowledge of soft computing	B.tech in Civil engineering & allied braches of specialisations	Pre-final yr/ final yr students
13	Dr. V A Dakwale	vaidehidakwale@civ.vnit.ac.in	Civil Engineering	Performance evaluation of sustainable Building Materials	basic knowledge of building simulation tool	B Tech civil Engineering / M Tech in allied branches of Civil Engineering	2 UG pre final/final year or 1 PG
14	Dr. Mansi A. Radke	mansi.radke@cse.vnit.ac.in	Computer Science and Engineering	Multimodal Information Retrieval	Basic programming and fundamentals of Computer science	Computer Science and Engineering pursuing B.Tech or M.Tech/ Information Technology	2 UG / 1 PG stduent

15	Dr.Parag Deshpande	psdeshpande@cse.vnit.ac.in	Computer Science and Engineering	Data analytics,GIS database,Machine learning	Python, Web development,DBMS	Computer Science and Engineering pursuing /completedB.Tech or M.Tech/ Information Technology	1UG/1PG
16	Dr. Praveen Kumar	praveenkumar@cse.vnit.ac.in	Computer Science and Engineering	computer vision and deep learning	Basic fundamentals of image processing, computer vision, machine learning	Computer Science and Engineering pursuing (3rd year or later)/completedB.Tech or M.Tech/ Information Technology	2UG/1PG
17	Dr. Makarand M. Lokhande	mml@eee.vnit.ac.in	Electrical Engineering	Electrical modeling battery for solar PV and EV application	Good in Matlab/scilab programming, power electronics	Electrical Engineering	2 PG / 1 Ph.D. scholar
18	Dr. Jay Prakash Singh	jayprakashsingh@eee.vnit.ac.in	Electrical Engineering	Effective control for a telerehabilitation system, Applications of nonlinear dynamics, chaos theory	Knowledge of control systems, nonlinear dynamics	B.Tech/M.Tech in Electrical Engg., Electronics Engg. MSc. in Phy./Maths	2 UG/1 PG
19	Dr. Pradyumn Chaturvedi	pradyumn.c@eee.vnit.ac.in	Electrical Engineering	Impact of EV Charging Infrastructure on Grid Power Quality (study, simulation, analysis), Design and modellling of Smart	Knowledge of MATLAB Simulink/Programming, Control System Design, Modelling of Power Electronic Converters	Electrical Engineering	2UG/2PG/1PhD

				Transformer (study, simulation, analysis)			
20	Dr. P. S. Kulkarni	pskulkarni@eee.vnit.ac.in	Electrical Engineering	Feasibility of various Energy Sources for powering telecom towers	Sound Knowledge of Matlab/ Simulink programming, Energy Sources, power electronics	Electrical Engineering	2 PG / 1 Ph.D. scholar
21	Dr. Ankit A. Bhurane	ankitbhurane@ece.vnit.ac.in	Electronics and Communication Engg	Biomedical Signal Processing	Student should have worked on Machine/Deep learning projects with hands-on experience in Matlab/Python	Any engineering student satisfying the pre-requisite is eligible.	Predicted outcome: Publications in reputed journals/conf.
22	Dr. Vishal Satpute	vrsatpute@ece.vnit.ac.in	Electronics and Communication Engineering	Computere vision for object detection	Knowledge of Digital Signal Processing	B.Tech/M.Tech in Electronics Engg., Electronics and Communication Engineering and allied branches	2UG/1PG/3UG
23	Naga Raju Gande	gnagaraju@mth.vnit.ac.in	Mathematics	Numerical methods for conservation laws	Python 3.x, Partial differential equations	Mathematics: M. Sc. final year; Integrated M. Sc. third year and above; First year Ph.D.	2 students, fellowship may be provided.
24	Dr. Vishnu Pratap	vpsingh@mth.vnit.ac.in	Mathematics	Optimization, Fuzzy Set	-	Mathematics: MSc, Integrated MSc	1UG/1PG

	Singh			Theory			
25	Dr. Ravikumar Dumpala	ravikumardumpala@mec.vnit.ac.in	Mechanical Engineering	Surface Engineering - Tribology and Bio-medical Related Applications	UG 2nd year and above	Mechanical, Materials Science	3 UG
26	Dr. Ravi K. Peetala	rkpeetala@mec.vnit.ac.in	Mechanical Engineering	Compressible flows and Convective Heat Transfer	-	Mechanical	2UG/ 2PG
27	Dr. T V K Gupta	tvkgupta@mec.vnit.ac.in	Mechanical Engineering	Manufacturing	atleast UG 3rd Year and interest to work in Manufacturing, COMSOL sotware, etc	Mechanical, Aerospace	2 UG
28	Dr. Sukanta Roga	rogasukanta@mec.vnit.ac.in	Mechanical Engineering	Renewable Energy (Wind & Solar), and Scramjet Engines	UG 6th semester onwards and knoledge of CFD is preferable	Mecahnical, energy, aeropspace and chemical engineering	3 UG / 2 PG / 1 Ph.D Scholar
29	Dr. Nitin Kumar Lautre	bidunitin@gmail.com	Mechanical Engineering	Advance processes, welding, Joining, Production and Industrial engineering	-	Mechanical	1 UG/ 1 PG /1 PhD
30	Dr. Gaurav Tiwari	gauraviitdelhi@gmail.com	Mechanical Engineering	Finite element analysis, crashworthiness, ballistics	strength of material, basic idea about modeling and finite element analysis softwares	Mecahnical, civil, applied mechanics, production, manufacturing, aerospace engineering	1 UG/ 1 PG

31	Dr. Avishkar Bhaurao Rathod	avishkarrathod@mme.vnit.ac.in	Metallurgical and Materials Engineering	Wear - Surface Engineering, Physical Metallurgy, Special Steel Making	Basic Knowledge of Metallurgical and Materials Engineering	BTech/BE 2nd year completed and above including MTech in Process Metallurgy/Materials Engineering/Mechanical Enginering	3 UG / 2 PG / 1 Ph.D Scholar
32	Dr. Y.Y. Mahajan	yymahajan@mme.vnit.ac.in	Metallurgical and Materials Engineering	Material characterisation by Non destructive Testing (UT/Phase array)	Basic knowledge of Ultrasonic testing	B.Tech. Final year in Metallurical and Materials Engineering / MTech in Process Metallurgy/Materials Engineering	1UG/1PG
33	Dr. Y.Y. Mahajan	yymahajan@mme.vnit.ac.in	Metallurgical and Materials Engineering	Developments in the aluminum metal matrix composites	Basic knowledge of Composite Materials	B.Tech. Final year in Metallurical and Materials Engineering / MTech in Process Metallurgy/Materials Engineering	1UG/1PG
34	Dr. Nikhil Ninad Sirdesai	nikhilsirdesai@mng.vnit.ac.in	Mining Engineering	Physico-mechanical response of rocks under varied thermal environments	UG/PG/PhD candidates with sufficient knowledge of rock mechanics, thermo-dynamics and statistical methods	Mining: B.Tech (3rd Year and Above), M.Tech (1st Year), PhD; Civil: B.Tech (Geotech) (3rd Year and Above), M.Tech (Geotech), PhD	2 students (UG/PG/PhD) , fellowship may be provided
35	Dr. Nikhil Deep Gupta	nikhildeepgupta@cvn.vnit.ac.in	VLSI and Nanotechnology	Optoelectronics Devices, Photonic Switches	Knowledge of Electromagnetic Fields and Theory and Electronic Devices	B.Tech./M.Tech. in Electronics/Optics related domains or M.Sc. (Physics/Electronics/Optics)	2 students at max.

APPLICATION FORM FOR SUMMER INTERNSHIP AT VNIT

Applicant Type – Student	**Area of Interest (Dept)**–
If Student – UG (B.E.,B.Tech) /PG (M.Sc.)	Broad area of Research Interest:

- **PERSONAL DETAILS**–
  - NAME – _____
    FIRST NAME LAST NAME
  - GENDER –**M/F**
  - Date of Birth (DD-MM-YYYY) – | | | | |
  - EMAIL – _____
  - CONTACT NO. – +91 | | | | | | | | | | |
  - ADDRESS FOR CORRESPONDENCE –
    - CITY – _____
    - STATE –_____
    - PINCODE – | | | | | |
  - PERMANENT ADDRESS –
    - CITY – _____
    - STATE – _____
    - PINCODE - | | | | | | |

- **ACADEMIC DETAILS –**

	INSTITUTION	**YEAR OF COMPLETION**	**CGPA / %**
CLASS X / SSC			
CLASS XII / HSC			
UG – SEM I			
SEM II			
SEM III			
SEM IV			
SEM V			
SEM VI			
SEM VII			
SEM VIII			
PG- SEM I			
SEM II			
SEM III			
SEM IV			
ANY OTHER			

- **OTHER DETAILS –**

  - CURRENTLY STUDYING IN –

    - COURSE - _____
    - SEMESTER –
    - INSTITUTION & PLACE - _____

- DETAILS OF PREVIOUS INTERNSHIPS –

SUBJECT	GUIDE	INSTITUTION	DURATION	YEAR

- DETAILS OF PROJECTS / TRAINING, IF ANY -

- ANY OTHER ACADEMIC/CO-CURRICULAR ACHIEVEMENT –

- ANY OTHER INMFORMATION/EXTRA CURRICULAR ACTIVITIES -

- NAME OF THE GUIDES WITH WHOM YOU WOULD LIKE TO WORK (along with the consent letter of the respective guide(s) –

1. _____
2. _____
3. _____

DECLARATION

I affirm that the information given above is correct. I have carefully read all the **"Instructions to Applicants"** given under the **VNIT Summer Research Internship Programme** as mentioned on website of VNIT and shall abide by the same.

Name – _____

Signature –

Place -_____Date - _____

CHECKLIST (Please tick the Box)

1. Duly completed Application Form – ☐
2. Letter of Recommendation(s) – ☐
3. Consent letter of the guide ☐

Note – 1. LoR from the professor from the institution where candidate is currently studying is must. Extra Sheets can be attached for further information

Two Referee Name with complete address, email address and contact details

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For Official Use Only

Based on the evaluation of the above application form, the following candidate is selected for Summer Internship Program (SIP) 2021.

Name of the Student	Supervisor Details & Signature	Endorsement by Head of the Department

The above recommendation is forwarded to **Dean, Academics** for further processing.

Payment Details –

1. Name of the Bank:
2. Bank Address:
3. DD Number:
4. Amount (Rs.):