



NICMAR
UNIVERSITY
PUNE

School of Engineering

B.Tech. in Civil Engineering



NICMAR University, Pune

School of Engineering



B.TECH. IN CIVIL ENGINEERING

Programme Brochure
(2024-2028)

B.TECH. (CIVIL ENGINEERING)

INTRODUCTION

B.Tech. in Civil engineering at NICMAR University will certainly aid the future construction industry with a multidisciplinary industry-ready undergraduate programme focusing on sustainability and digitalization of the built environment. In order to do so a wide range of courses aims at present and future state of art technologies to provide knowledge in the areas of civil engineering.

The unique curriculum of the programme transcends the boundaries of engineering education and aims to empower students with the basic skills required to lead the construction industry in the modern era. It has been designed to encourage creative and analytical thinking coupled with the zeal for innovation and to foster technical skills contributing to students' overall personal and professional development.

Vision

To emerge as a globally recognized school for promoting innovation and sustainability, equipping students with the knowledge and skills to tackle complex modern-day challenges and transforming them into holistic professionals and responsible citizens.

Mission

We at the School of Engineering are committed to achieving the vision by,

M1 Provide transformative education by blending academic excellence with hands-on experience

M2 Promote a culture of interdisciplinary research, Industry Interaction, sustainability, quality and ethical values.

M3 Aim to nurture creative thinking in entrepreneurial and intrapreneurial endeavors.

M4 Prepare industry-ready professionals by enhancing industry-institute interactions.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

PEO1. To incorporate the skills required to design and execute complex infrastructure projects with professionalism and ethics.

PEO2. To enable the students to solve technological and managerial challenges in a built environment successfully.

PEO3. Foster the ability to pursue higher education, conduct research, and engage in a process of lifelong learning to remain active professionals.

PEO4. To inculcate the skills of digital tools for providing an effective solution to upcoming challenges in the construction industry.

PROGRAMME OUTCOMES (POs)

PO1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and cultural, societal, and environmental considerations.

PO4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7. Environment and sustainability: Understand the impact of professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSO1. Demonstrate the ability and sound knowledge of digital tools and advancements for effective construction.

PSO2. Demonstrate the ability and sound knowledge of construction project management to reduce cost and time overrun issues.

PROGRAMME HIGHLIGHTS

- Holistic course curriculum with immersive pedagogy and internships with industry interface.
- Ability enhancement through immersion programmes and projects.
- Methodical exposure to domains of civil engineering along with science & technology, humanities
- Exposure to multiple industrial sectors.
- Eight tracks of civil engineering application-oriented specializations offered throughout 4 years:
 1. Digitalization in the Construction Industry
 2. Construction Engineering & Management
 3. Structural Engineering
 4. Transportation Engineering
 5. Geotechnical Engineering
 6. Environmental Engineering
 7. Hydraulics
 8. Hydrology & Water Resources Engineering

The first year's curriculum includes courses, from different areas such as Basic science, Engineering science, and humanities to improve students' understanding of key aspects of Engineering and humanities.

In the second, third, and fourth years, the curriculum comprises courses in the major domains of civil engineering. Also, students have the opportunity to choose different tracks during 3rd and 4th years of engineering in the areas of Construction Engineering & Management, Structural Engineering and Transportation Engineering.

A total credit of 170 for a student to be eligible to get Under Graduate degree in Engineering. A student will be eligible to get Under Graduate degree with Honours or an additional Minor in engineering if he/she completes an additional 20 credits. These could be acquired through MOOCs.

DURATION AND ORGANISATION

The programme duration is of four years. It is organized into eight semesters with suitable breaks. Each Semester is devoted to classroom learning, acquiring hands-on experience in practice workshops, and developing a passion for research and innovation through projects. After the completion of eight semesters, the student will be awarded a B.Tech. degree.

ELIGIBILITY

- a) Candidate Passed HSC or its equivalent examination with Physics and Mathematics as compulsory subjects along with one of the Chemistry or Biotechnology or Biology or Technical Vocational subjects, or Computer Science or Information Technology or Informatics Practices or Agriculture or Engineering Graphics or Business Studies or Electronics or Entrepreneurship and obtained at least 45% marks (at least 40% marks, in case of Backward class categories, Economically Weaker Section and Persons with Disability candidates).
- b) Passed three years of D. Voc. Stream in the same or allied sector.
- c) Passed a minimum 3 years Diploma in Engineering and Technology and obtained at least 45% marks (at least 40% marks, in case of Backward class categories Economically Weaker Section (EWS) and Persons with Disability candidates).

Note:

- i. Candidates who have appeared for the class XII examination and are awaiting their final results will be provisionally admitted to the programme based on their performance in the selection process. These candidates must ensure that the pending mark sheets are submitted within one month of the commencement of programme, failing which the admission will be cancelled.
- ii. Any other criterion is declared from time to time by the appropriate authority as defined under the Act.
- iii. In case the eligibility criteria are not applicable, the decision of NICMAR University will be final.

ADMISSION PROCEDURE

Selection of students is made by the selection committee. Those interested in admission to the programmes offered by the NICMAR University, Pune may apply online, pay fees and upload documents through our website. All specified documents must be submitted. Incomplete applications will not be considered.

Application Fee:

UG Programmes:

Single programme preference: INR 1,000/-
Two programme preferences: INR 1,200/-
Three programme preferences: INR 1,400/-

Candidates' preference of programme will be considered, but the allotment will be done at the sole discretion of the admission department, NICMAR University. Candidates should appear for the selection procedure on the given dates.

Admission process will be conducted online and candidates can attend online UG-NCAT and PI from their residence or any suitable place as per their convenience.

Applications are scrutinised and eligibility is established on the basis of the documents submitted. Eligible candidates will be invited to appear for the selection procedure, which comprises Under Graduate NICMAR Common Admission Test (UG-NCAT) and Personal Interview (PI).

Details	Total Marks
Under Graduate NICMAR Common Admission Test (UG-NCAT)	100 marks
a) English Language	25 marks
b) Quantitative Aptitude	25 marks
c) Test of Reasoning	25 marks
d) General Knowledge	25 marks
Personal Interview (PI)	50 marks
Total	150 Marks

Valid scores of JEE / MH CET / PERA / CUET UG / Other States CET will be considered as an alternative for UG-NCAT.

For candidates appearing in NCAT & other additional entrance exam (as mentioned above), the highest score between these exams will be considered for final merit.

Selection of candidates is done on the basis of merit. Admission offer letters are issued in the order of merit.

RESERVED CATEGORY

Description of Caste/Tribe/Category/Class of Reserved Category	Percentage of Reservation
Scheduled Castes and Scheduled Castes Converts to Buddhism	13.0%
Scheduled Tribes	7.0%
De-notified Tribes (A)	3.0%
Nomadic Tribes (B)	2.5%
Nomadic Tribes (C)	3.5%
Nomadic Tribes (D)	2.0%
Other Backward Classes	19.0%
Total	50.0%

DOMICILE

Out of the total approved intake capacity, forty percent of the seats are reserved for the students having domiciled in the State of Maharashtra.

FEES AND PAYMENT SCHEDULE

The details of the total amount of fees payable with payment schedule for this programme are given below:

1. At the time of admission
 - a. Tuition Fee : Rs. 1,50,000/-
 - b. Security Deposit : Rs. 10,000/-
 - Total : **Rs. 1,60,000/-**
 2. Within 7 days of the commencement of Semester II : **Rs. 1,50,000/-**
 3. Within 7 days of the commencement of Semester III : **Rs. 1,50,000/-**
 4. Within 7 days of the commencement of Semester IV : **Rs. 1,50,000/-**
 5. Within 7 days of the commencement of Semester V : **Rs. 1,50,000/-**
 6. Within 7 days of the commencement of Semester VI : **Rs. 1,50,000/-**
 7. Within 7 days of the commencement of Semester VII : **Rs. 1,50,000/-**
 8. Within 7 days of the commencement of Semester VIII : **Rs. 1,50,000/-**
- Grand Total : Rs.12,10,000/-**

Note: Hostel and mess charges are additional.

The tuition fee includes classroom teaching, workshops as per the programme structure and other charges i.e. fees for examinations, evaluation, project work and assessments, library and students' welfare fund. The University provides a free group accident insurance and group mediclaim policy that covers all students.

The security deposit (Rs. 10,000/-) is refundable on completion of the programme (after adjustment of dues, if any from the student).

The following conditions apply for the payment of fees and other dues.

For 1st Instalment (at the time of admission):

- The fees and other dues payable at the time of admission are as mentioned in the admission offer letter.

For 2nd Instalment Onwards:

- Fees are payable as per the notification given to the students by the department concerned.
- The fees are payable as per the schedule given, failing which, fees paid after this schedule will be subject to a late fine of Rs.100/- per day for First one Month, Rs. 200/- per day for Second Month, Rs. 300/- per day for Third Month. However, after Third Month, the University may cancel the registration of the student in his/her programme if no valid ground is established for the delay.

The NICMAR University reserves the right to revise any/all of the components of the above policy, including payment schedule and refund policy without any prior notice.

POLICY FOR CANCELLATION OF ADMISSION AND REFUND OF FEE

The NICMAR University, Pune has a policy of considering refund of the first instalment of tuition fee paid by the student at the time of acceptance of offer, against cancellation of admission. The University strictly follows UGC guidelines in respect of refund of fees. All request applications duly signed by the student must necessarily be received by the Admission Department, NICMAR University, Pune. All such requests in writing must be sent by hand/post/courier only. Any request for refund by e-mail/telephone/fax, etc. if not accompanied by a formal request in writing in the hard copy format within the time stipulated below will not be considered.

If a student chooses to withdraw from the programme of study in which he/she is enrolled, the University shall follow the following five-tier system for the refund of fees remitted by the student.

Sr. No.	Percentage of Refund of Fees*	Point of time when notice of withdrawal of admission is received in the University	Deadline
(1)	100%	15 days or more before the formally-notified commencement of the academic session.	on or before 28.07.2024
(2)	90%	Less than 15 days before the formally-notified commencement of the academic session.	29.07.2024 to 11.08.2024
(3)	80%	15 days or less after the formally-notified commencement of the academic session.	12.08.2024 to 26.08.2024
(4)	50%	30 days or less, but more than 15 days, after the formally-notified commencement of the academic session.	27.08.2024 to 10.09.2024
(5)	0%	More than 30 days after the formally-notified commencement of the academic session.	11.09.2024 onwards

*The security deposit, which is not part of the fees chargeable, shall be refunded in full (after adjustment of dues, if any from the student).

Note 1: In case of (1) in the table above, Processing Charges of Rs.5,000/- will be deducted from the refundable amount (as per refund policy of UGC).

Note 2: The refund policy will be strictly followed by NICMAR University, time to time as per UGC guidelines and updates.

HOSTEL AND LIVING EXPENSES [2024-25]

Hostel accommodation is available at NICMAR University, Pune. There is a separate hostel for girl students. All students have to abide by the Code of Conduct issued by NICMAR University, Pune.

The hostel accommodation within the campus is allotted purely on the first paid, first served basis (on the basis of hostel & food fees received in the NICMAR University, Pune). However, taking into the account the limited number of rooms available in the campus hostels, students requiring accommodation, who could not be accommodated inside the campus hostels, will be assisted in search of appropriate accommodation in the vicinity of the campus, if requested by the students and subject to availability of such accommodation.

The campus has four hostels which altogether provide 1139 single occupancy rooms for boys and 194 shared occupancy rooms for girl students. The details are as follows:

Sr. No.	Hostel	Capacity	Type of Occupancy	Charges (Rupees Per Month)	Remark
1.	Millennium Hostel	502	Single	7000/-	For boys
2.	Silver Jubilee Hostel	323	Single	7000/-	For boys
3.	Ultima Hostel	314	Single	7000/-	For boys
4.	Millennium Hostel	194	Shared (Double)	5880/-	For girls only

Note: Single occupancy in a two-bedded room for girls (if available) - Rs. 7000/- per month.

Food package charge is Rs. 350/- per head per day. The package includes breakfast with tea, buffet lunch, evening snacks with tea and buffet dinner.

The mess facilities are run by a Contractor hired by NICMAR University, Pune under the supervision of the Sr. Manager – Estate Administration. The Senior Manager according to the suggestions by the Students' Mess Co-ordinator prepares the menu on weekly basis.

Payment Schedule

Hostel and food fees are payable semester-wise within 7 days of the commencement of the semester. In case of delay, a fine of Rs. 75/- per day will be payable for the first 7 days, after which, the fine will be Rs. 125/- per day. The hostel and food fees once paid are non-transferable. Mess facility is mandatory for all students staying in NICMAR University, Pune.

Typically, the total living expenses including hostel & food fees expenses at Pune are approximately Rs. 18,000/- to Rs. 20,000/- per month.

Note: Hostel Accommodation and Food charges are inclusive of all taxes applicable.

FINANCIAL ASSISTANCE

NICMAR University, Pune extends merit scholarships to students aspiring to undertake full-time PG and UG Programmes. A student is eligible **for only one award or scholarship** as applicable. These merit scholarships are designed to recognize and motivate high-performing students, providing financial support based on their academic performance, as well as any other achievements or results in National Level/State Level entrance exams, which includes the NICMAR University, Pune Common Admission Test (PG-NCAT & UG-NCAT).

The brief details of Merit Scholarship categories are provided below:

1. **“Outstanding Performance Scholarships”**: Applicable for entire duration of the programme:
 - A. **“100% Fee Waiver Under the Exemplary Merit Scholarship”**: Available to the **2% (Upto 27 students) of Approved Intake Students (at least 1 student)**.
100% tuition fee waiver throughout the entire duration of the programme, exclusively accessible to the **2%** of students within the approved intake. *The availability of this benefit is contingent upon meeting the specified conditions outlined in the respective policy.*
 - B. **“75% Fee Waiver Under the Distinguished Merit Scholarship”**: Available to the **3% (Upto 40 students) of Approved Intake Students (at least 1 student)**.
75% tuition fee waiver throughout the entire duration of the programme, exclusively accessible to the **3%** of students within the approved intake. *The availability of this benefit is contingent upon meeting the specified conditions outlined in the respective policy.*
 - C. **“25% Fee Waiver Under the Meritorious Grant”**: Available to the **5% (Upto 67 students) of Approved Intake Students**.
25% tuition fee waiver throughout the entire duration of the programme, exclusively accessible to the **5%** of students within the approved intake. *The availability of this benefit is contingent upon meeting the specified conditions outlined in the respective policy.*
 - D. **“5% Fee Waiver Under the Commendable Assistance Grant”**: Available to the **30% (Upto 399 students) of Approved Intake Students**.
5% tuition fee waiver throughout the entire duration of the programme, exclusively accessible to **30%** of students within the approved intake. *The availability of this benefit is contingent upon meeting the specified conditions outlined in the respective policy.*
 2. **“Economically Weaker Section* [EWS] Scholarship”**: Applicable for entire duration of the programme:
 - **100% Fee Waiver: Available for up to 5 Students.**
We are excited to introduce a merit-cum-means scholarship opportunity for students with an annual family income of up to **Rs. 5 lakhs or less**. The scholarship entails a full tuition fee waiver for up to 5 students based on their outstanding performance in the admission process. To qualify for this fee waiver, candidates should have 80% & above in SSC & HSC for UG programmes; and 80% & above in SSC, HSC and 60% & above in Graduation for PG programmes.
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- **50% Fee Waiver: Available to the 10% (Upto 145 students) of Approved Intake Students.**

50% fee waiver scholarships are awarded to **10%** of students within the approved intake falling within the **Economically Weaker Section (EWS)**, encompassing individuals with an annual family gross income of up to **Rs. 8 lakhs or less**.

The availability of this benefit is contingent upon meeting the specified conditions outlined in the respective policy.

**Eligibility will also depend on exceptional performance as specified in the respective policy.*

3. "Rising Talent Scholarship": Applicable for entire duration of the programme

Up to Rs. 20,000/- (Per Year) Tuition Fee Relief for the 10% (Upto 145 students) of Approved Intake Students through Extra-curricular / Co-curricular Accomplishments.

A tuition fee waiver of up to Rs. 20,000 per year for the entire duration of the programme is exclusively accessible to 10% of students within the approved intake. *The availability of this benefit is contingent upon meeting the specified conditions outlined in the respective policy.*

4. Scholarships Offered by Sponsors:

(i). "International Education Foundation (IEF)* Scholarship" (for the students of minority community): Applicable for entire duration of the programme*.

International Education Foundation is **offering tuition fee for the shortlisted students**, for the entire duration of the full time Post Graduate Programmes. This scholarship is available for the students of minority community, admitted to NICMAR University, Pune for the full-time programmes. The details are as follows:

- **Scholarship is available for the students of minority community.**

**Subject to approval and as per the scholarship & selection policy of IEF.*

(ii). "thyssenkrupp Uhde India Private Limited* Scholarship": Applicable for entire duration of the programme.

- **Scholarship for Special Category** for SoEE Programmes**

Scholarship for a **female candidate** (Offering full tuition fee).

- Candidate must be from Economically Weaker Section.
- Having an Engineering degree (only) at Undergraduate (UG) level

**Subject to approval and as per the scholarship & selection policy of thyssenkrupp Uhde India Private Limited.*

***As per thyssenkrupp Uhde India Private Limited policy.*

5. Scholarship for wards of Defence Personnel: Applicable for entire duration of the programme: * Limited to 1% (Upto 18 students) of the total intake.

- **Wards of Defence and Para-military personnel, both currently serving and retired, are eligible for this scholarship.**

The percentage of scholarship varies based on the rank of the personnel:

- Non-Commissioned Officers (NCOs): 25% Scholarship.
- Junior Commissioned Officers (JCOs): 15% Scholarship.
- Senior Commissioned Officers (SCOs): 10% Scholarship.

General Terms and Conditions

Students with any type of scholarship must comply with the following requirements for the continuance of the scholarship in the subsequent academic term / year. Breach of any one of these conditions shall render them liable to disqualification of the scholarship award.

Scholarships will not be offered to any student who postpones or seeks deferment to the University's full-time programmes for any reason whatsoever. Students with scholarship must comply with the following requirements for continuance of scholarship in subsequent academic term / year. Breach of any of these conditions will disqualify the student for the same and will make the student forfeit the scholarship. In such a case, the student will have to pay the necessary fees for the next academic year. The scholarship will be restored in subsequent term / year, depending on the fulfilment of the conditions stated below:

- i. The awardees' **attendance** in any course of study **shall not be less than 75%**.
- ii. Awardees **should pass** the **academic term/ year** in the **first attempt**.
- iii. The Awardee **must have minimum CGPA** as per below table:

Batch Size	Minimum CGPA			
	▶ Exemplary Merit Scholarship	▶ Distinguished Merit Scholarship	▶ Meritorious Grant ▶ Commendable Assistance Grant ▶ EWS Scholarship ▶ IEF Scholarship ▶ tkIS Scholarship	▶ Rising Talent Scholarship ▶ Scholarship for wards of Defence Personnel
≥ 300	7.5	7.3	7.2	7
≥ 60 and < 300	8	7.8	7.6	7.2
< 60	8.5	8.3	8	7.5

- iv. The awardees should have no adverse comments/grading on record from the disciplinary committee for any reason whatsoever.
- v. **No gap/break** in semester whatsoever during the entire programme is permissible*.
- vi. The awardees shall maintain high standards of conduct and behaviour and conform to the discipline of the NICMAR University, Pune as laid down in the 'Code of Conduct' of the NICMAR University, Pune.
- vii. In the event of admission cancellation, students are obligated to reimburse the entire fee waiver granted by the University up to the point of admission cancellation.

* Exceptional cases like serious medical conditions, family emergencies, or other unforeseen circumstances etc. may be considered with subject to approval of Vice Chancellor.

1. "Outstanding Performance Scholarships":

- A. "100% Fee Waiver Under the Exemplary Merit Scholarship": Available to the 2% (Upto 27 students) of Approved Intake Students (at least 1 student) - Applicable for entire duration of the programme
- B. "75% Fee Waiver Under the Distinguished Merit Scholarship": Available to the 3% (Upto 40 students) of Approved Intake Students (at least 1 student) - Applicable for entire duration of the programme
- C. "25% Fee Waiver Under the Meritorious Grant": Available to the 5% (Upto 67 students) of Approved Intake Students - Applicable for entire duration of the programme
- D. "5% Fee Waiver Under the Commendable Assistance Grant": Available to the 30% (Upto 399 students) of Approved Intake Students - Applicable for entire duration of the programme

The availability of this benefit is contingent upon meeting the specified conditions mentioned below.

- ✚ Eligibility is determined by exceptional performance as per the details mentioned in the respective policy.
- ✚ Aspirants need to undergo the admission process, which includes the NICMAR Common Admission Test (NCAT) or an equivalent score, and a Personal Interview (PI) or Counseling Session (for B.Arch.). Furthermore, they should qualify in the admission process according to the prescribed cut-off.
- ✚ Selected candidates for the Outstanding Performance Scholarships **will receive an offer letter** for admission **based on their scholarship eligibility**.
- ✚ **Programme Fee Waiver:** Students awarded this scholarship benefit from a comprehensive 100% tuition fee waiver (for A) / 75% tuition fee waiver (for B) / 25% tuition fee waiver (for C) / 5% tuition fee waiver (for D).
- ✚ **Exclusive Opportunity:** The scholarship is exclusively accessible to 2% (for A), 3% (for B), 5% (for C), 30% (for D) of students within the approved intake. This exclusivity enhances the prestige and value of the scholarship, making it a coveted opportunity and it cannot be clubbed

with each other and/or any other scholarships declared.

✚ **First Come-First Served Basis (A, B, C & D):** The scholarship will be awarded on a First Come-First Served basis, emphasizing the importance of prompt action by eligible students. Early applicants have a higher likelihood of securing this valuable financial assistance.

✚ **Financial Pre-requisites for Eligibility:** To qualify for the Outstanding Performance Scholarships and have the tuition fee waived, students meeting the criteria must submit the first installment of the programme fee as per the offer letter. This requirement ensures commitment from the student and facilitates the efficient processing of the scholarship.

A. “100% Fee Waiver Under the Exemplary Merit Scholarship”: Available to the 2% of Approved Intake Students (at least 1 student).

PG Programmes	Maximum Eligible Students	Best of Any One				
		CAT	MHT- CET	MAT	GMAT	NCAT
MBA ACM	14	90 percentile & above	92 percentile & above	95 percentile & above	650 & above	115 & above
MBA APM	3					
MBA REUIM	3	88 percentile & above	90 percentile & above	94 percentile & above	630 & above	110 & above
MBA	1					
M.Plan*	1	NA	NA	NA	NA	110 & above
MBA ENS	1	86 percentile & above	88 percentile & above	92 percentile & above	620 & above	105 & above
MBA SEM	1					

***GATE (Architecture & Planning / Civil Engineering) Qualified students will get scholarship benefit based upon their Ranking.**

UG Programme	Maximum Eligible Students	Best of Any One		
		JEE Main	MHT-CET	NCAT
B.Tech. in Civil	1	87 & Above	88 & Above	90 & above

UG Programme	Maximum Eligible Students	NCAT
Integrated MBA (BBA + MBA)	1	90 & above

UG Programme	Maximum Eligible Students	Best of Any One	
		NATA	JEE Paper 2 (NTA)
B.Arch.	1	<i>NATA / JEE Paper 2 (NTA) Qualified students will get scholarship benefit based upon their Ranking.</i>	

Note: If the quota for candidates eligible for a 100% fee waiver has been reached, further eligible candidates will be considered for scholarships in the subsequent category due to limited availability of scholarship seats.

B. “75% Fee Waiver Under the Distinguished Merit”: Available to the 3% of Approved Intake Students (at least 1 student).

PG Programmes	Maximum Eligible Students	Best of Any One				
		CAT	MHT- CET	MAT	GMAT	NCAT
MBA ACM	22	>=88	>=90	>=93	>=640	>=112

MBA APM	4					
MBA REUIM	4	≥87	≥88	≥92	≥620	≥107
MBA (NBS)	2					
M.Plan*	1	NA	NA	NA	NA	≥107
MBA ENS	1	≥85	≥86	≥91	≥610	≥103
MBA SEM	1					

***GATE (Architecture & Planning / Civil Engineering) Qualified students will get scholarship benefit based upon their Ranking.**

UG Programme	Maximum Eligible Students	Best of Any One		
		JEE Main	MHT-CET	NCAT
B.Tech. in Civil	2	≥86	≥87	≥88

UG Programme	Maximum Eligible Students	NCAT
Integrated MBA (BBA + MBA)	2	≥88

UG Programme	Maximum Eligible Students	Best of Any One	
		NATA	JEE Paper 2 (NTA)
B.Arch.	1	NATA / JEE Paper 2 (NTA) Qualified students will get scholarship benefit based upon their Ranking.	

Note: If the quota for candidates eligible for a 75% fee waiver has been reached, further eligible candidates will be considered for scholarships in the subsequent category due to limited availability of scholarship seats.

C. “25% Fee Waiver Under the Meritorious Grant Scholarship”: Available to the 5% of Approved Intake Students

PG Programmes	Maximum Eligible Students (both categories)	Best of Any One				
		CAT	MHT- CET	MAT	GMAT	NCAT
MBA ACM	36	≥85	≥87	≥91	≥630	≥109
MBA APM	7					
MBA REUIM	7	≥82	≥85	≥90	≥610	≥104
MBA (NBS)	3					
M.Plan*	2	NA	NA	NA	NA	≥104
MBA ENS	2	≥78	≥83	≥90	≥600	≥100
MBA SEM	2					

***GATE (Architecture & Planning / Civil Engineering) Qualified students will get scholarship benefit based upon their Ranking.**

OR

Candidates having minimum 80 percent and above in Grade 10, Grade 12 / Diploma and Graduation Degree are also eligible for “Meritorious Grant Scholarship”

UG Programme	Maximum Eligible Students (both categories)	Best of Any One		
		JEE Main	MHT-CET	NCAT
B.Tech. in Civil	3	≥84	≥85	≥85

OR

Candidates having minimum 80 percent and above in Grade 10 and Grade 12 / Diploma are also eligible for “Meritorious Grant Scholarship”

UG Programme	Maximum Eligible Students (both categories)	NCAT
Integrated MBA (BBA + MBA)	3	>=85

OR

Candidates having minimum 85 percent and above in Grade 10 and Grade 12 / Diploma are also eligible for “Meritorious Grant Scholarship”

UG Programme	Maximum Eligible Students (both categories)	Best of Any One	
		NATA	JEE Paper 2 (NTA)
B.Arch.	2	NATA / JEE Paper 2 (NTA) Qualified students will get scholarship benefit based upon their Ranking.	

OR

Candidates having minimum 80 percent and above in Grade 10 and Grade 12 / Diploma are also eligible for “Meritorious Grant Scholarship”

Note: If the quota for candidates eligible for a 25% fee waiver has been reached, further eligible candidates will be considered for scholarships in the subsequent category due to limited availability of scholarship seats.

D. “5% Fee Waiver Under the Commendable Assistance Grant”: Available to the 30% of Approved Intake Students

PG Programmes	Maximum Eligible Students (both categories)	Best of Any One				
		CAT	MHT- CET	MAT	GMAT	NCAT
MBA ACM	216	>=83	>=85	>=89	>=620	>=107
MBA APM	45					
MBA REUIM	45	>=80	>=83	>=88	>=600	>=102
MBA (NBS)	18					
M.Plan*	9	NA	NA	NA	NA	>=102
MBA ENS	9	>=75	>=81	>=88	>=590	>=98
MBA SEM	9					

***GATE (Architecture & Planning / Civil Engineering) Qualified students will get scholarship benefit based upon their Ranking.**

OR

Candidates having minimum 75 percent and above in Grade 10, Grade 12 / Diploma and Graduation Degree are also eligible for “Commendable Assistance Grant”.

UG Programme	Maximum Eligible Students (both categories)	Best of Any One		
		JEE Main	MHT-CET	NCAT
B.Tech. in Civil	18	>=82	>=83	>=83

OR

Candidates having minimum 75 percent and above in Grade 10 and Grade 12 / Diploma are also eligible for “Commendable Assistance Grant”.

UG Programme	Maximum Eligible Students (both categories)	NCAT
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Integrated MBA (BBA + MBA)	18	>=83
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OR

Candidates having minimum 80 percent and above in Grade 10 and Grade 12 / Diploma are also eligible for "Commendable Assistance Grant".

UG Programme	Maximum Eligible Students (both categories)	Best of Any One	
		NATA	JEE Paper 2 (NTA)
B.Arch.	12	NATA / JEE Paper 2 (NTA) Qualified students will get scholarship benefit based upon their Ranking.	

OR

Candidates having minimum 75 percent and above in Grade 10 and Grade 12 / Diploma are also eligible for "Commendable Assistance Grant".

2. Economically Weaker Section [EWS] Scholarships: Applicable for entire duration of the programme:

• 100% Fee Waiver: Available for up to 5 Students.

We are excited to introduce a merit-cum-means scholarship opportunity for students with an annual family income of up to **Rs. 5 lakhs or less** belonging to the **Economically Weaker Sections (EWS)**. The scholarship entails a full tuition fee waiver for up to 5 students based on their outstanding performance in the admission process. To qualify for this fee waiver, candidates should have 80% & above in SSC & HSC for UG programmes; and 80% & above in SSC, HSC and 60% & above in Graduation for PG programmes.

• 50% Fee Waiver: Available to the 10% of Approved Intake Students.

These scholarships are awarded to 10% of students within the approved intake who are Economically Weaker encompassing individuals with an annual family gross income of up to Rs. 8 lakhs or less. If there are more than 10% of students who belong to EWS category, then this concession will be given on the basis of their merit.

PG Programmes	Maximum Eligible Students
MBA ACM	72
MBA APM	15
MBA REUIM	15
MBA (NBS)	6
M.Plan	3
MBA ENS	3
MBA SEM	3
MBA FB & E	3
PGD QSCM	9

UG Programmes	Maximum Eligible Students
B.Tech. in Civil	6
Integrated MBA (BBA + MBA)	6
B.Arch.	4

Aspirants need to undergo the admission process, which includes the NICMAR Common Admission Test (NCAT) or an equivalent score, and a Personal Interview (PI) or Counseling Session (for B.Arch.). Furthermore, they should qualify in the admission process according to the prescribed cut-off.

Eligibility Criteria:

- Students whose family has gross annual income below Rs. 8.00 lakh* (Rupees eight lakh only) are to be identified as EWSs for benefit of scholarship. Income shall also include income from

all sources i.e. salary, wages, agriculture, business, profession, etc. for the financial year prior to first academic year.

- Also, student whose family owns or possesses any of the following assets shall be excluded from being identified as EWS, irrespective of the family income: -
 - a. 5 Acres of Agricultural land and above,
 - b. Residential flat of 1000 square feet and above,
 - c. Residential plot of 100 square yards and above in notified Municipalities and
 - d. Residential plot of 100 square yards and above in any other area.
- The property held by a "Family" in different locations or different places/cities would be clubbed while applying the land or property holding test to determine EWS status.
- The family for this purpose includes Self, Parents, Siblings below the age of 18 years, Spouse and children below 18 years.

Procedure for scrutiny of application:

- Income certificate issued by tehsil/collector will be collected.
- An affidavit will be taken from student applicants with respect to asset declaration. Additionally, asset verification will be done by a third-party agency.
- After scrutiny of documents, scholarship will be awarded on the basis of merit.

* Rs. 5.00 lakh for 100% fee waiver criteria.

3. "Rising Talent Scholarship": Applicable for entire duration of the programme

Up to Rs. 20,000/- (Per Year) Tuition Fee Relief for the 10% of Approved Intake Students through Extra-curricular / Co-curricular Accomplishments.

- The "Rising Talent Scholarship" is designed to provide fee relief of up to Rs. 20,000/- per year for the entire duration of the programme at NICMAR University, Pune.
- This scholarship is exclusively accessible to the 10% of students within the approved intake who demonstrate exceptional accomplishments in extracurricular / co-curricular activities.
- The primary objective of this policy is to acknowledge and incentivize students who actively engage in and excel at extracurricular / co-curricular pursuits.
- The scholarship aims to contribute to a comprehensive and enriching educational experience by recognizing and rewarding exceptional accomplishments in extracurricular / co-curricular activities.

PG Programmes	Maximum Eligible Students
MBA ACM	72
MBA APM	15
MBA REUIM	15
MBA (NBS)	6
M.Plan	3
MBA ENS	3
MBA SEM	3
MBA FB & E	3
PGD QSCM	9

UG Programmes	Maximum Eligible Students
B.Tech. in Civil	6
Integrated MBA (BBA + MBA)	6
B.Arch.	4

Eligibility:

- Students who exhibit exceptional skills in extracurricular activities such as sports, fine arts, Performing Arts, Literary Competitions, Quizzes, Hackathons, or likewise are eligible to apply for these scholarships.
-

-
- Aspirants need to undergo the admission process, which includes the NICMAR Common Admission Test (NCAT) or an equivalent score, and a Personal Interview (PI) or Counseling Session (for B.Arch.). Furthermore, they should qualify in the admission process according to the prescribed cut-off.

Details of Extracurricular / Co-curricular Activities:

- Extracurricular / Co-curricular activities are often referred to as after-school activities that students participate in outside their regular academic curriculum. These include sports, fine arts, Performing Arts, Literary Competitions, Quizzes, Hackathons, and other pursuits that allow students to explore their interests and develop new skills.
- Engaging in such activities provides students with opportunities to enhance their social, physical, creative, and leadership abilities. Additionally, these endeavours hold substantial importance in college admissions, as they demonstrate a student's interests, dedication, and enthusiasm beyond their academic accomplishments.
- Extracurricular / Co-curricular activities are defined as activities that fall outside the regular academic curriculum but contribute to the overall development and well-rounded education of individuals.
- Activities can take place within or outside the university and include, but are not limited to:
 - Sports & Athletics
 - Winning / Participating in Inter-school/ Inter-college/ Varsity/ Recognized Sports Associations / Federations Sports competitions
 - Arts & Culture
 - Winning / Participating in drama, theatre, dance, singing, musical instrument, painting, drawing, pottery, sculpturing, etc.
 - Art exhibitions or gallery displays
 - Academic Competitions
 - Winning / Participating in quizzes, debates, academic/research writing, composing poeties/stories etc.
 - Winning / participating in Research projects and presentations
 - Winning / participating in science fairs, innovation competitions, or Hackathons
 - Technology & Coding
 - Coding competitions & hackathons.
 - Developing and implementing e-sports games. Winning and Participating in software development/testing projects etc.

Scholarship Selection Process:

- Selection is based on a combination of academic achievements and demonstrated excellence in extracurricular activities.
- The 10% of students within the approved intake who meet the eligibility criteria will be considered. Students will have to apply for this scholarship.
- The Scholarship Committee will evaluate candidates based on their achievements/ involvement and impact in the specified extracurricular areas in last 3 years. Committee shall call for required evidences in form of certificates/ medals/ photographs during participation/ performances/ newspaper media archives etc.

Combination of Activities:

- The university may consider a combination of these activities when awarding scholarships to well-rounded individuals.
- The selection process aims to reward students who positively contribute to the campus community in various aspects.

Criteria Alignment:

- The university may specify certain criteria or focus areas aligned with its institutional values and goals.
- These criteria will be communicated transparently to applicants and considered during the scholarship selection process.

Communication and Transparency:

- All information regarding the "Rising Talent Scholarship" and the extracurricular activities policy will be communicated transparently to eligible students.
 - Clear guidelines and instructions will be provided for the application process.
-

4. Scholarships Offered by Sponsors:

(i) **International Education Foundation [IEF] Scholarship** (for the students of minority community): **Applicable for entire duration of the programme.**

International Education Foundation is **offering tuition fee for the shortlisted students**, for the entire duration of the full time Post Graduate Programmes. This scholarship is available for the students of minority community, admitted to NICMAR University, Pune for the full-time programmes. The details are as follows:

- **Scholarship is available for the students of minority community.**

**Subject to approval and as per the scholarship & selection policy of IEF.*

(ii) **thyssenkrupp Uhde India Private Limited* Scholarship: Applicable for entire duration of the programme**

- **Scholarship for Special Category** for SoEE Programmes**

Criteria:

- Scholarship for a **female candidate**.
- **100% tuition fee waiver**
- Candidate must be from Economically Weaker Section.
- Having an Engineering degree (only) at Undergraduate (UG) level.

This is applicable for Admission to School of Energy and Environment (SoEE) programmes ONLY:

1. MBA in Sustainable Energy Management (first preference) or
2. MBA in Environmental Sustainability (second preference)

**Subject to approval and as per the scholarship & selection policy of thyssenkrupp Uhde India Private Limited.*

***As per thyssenkrupp Uhde India Private Limited policy.*

If the student is found to be meritorious and is able to clear thyssenkrupp Uhde India Private Limited selection requirements, she may be absorbed in thyssenkrupp Uhde India Private Limited upon successful completion of MBA programme. Scholarship is applicable only if the student clears exams as per the examination ordinance of NICMAR University, Pune.

5. Scholarship for wards of Defence personnel

- **Wards of Defence and Para-military personnel, both currently serving and retired, are eligible for this scholarship.**

** Limited to 1% of the total intake (at least 1).*

PG Programmes	Maximum Eligible Students
MBA ACM	7
MBA APM	1
MBA REUIM	1
MBA (NBS)	1
M.Plan	1
MBA ENS	1
MBA SEM	1
MBA FB & E	1
PGD QSCM	1

UG Programmes	Maximum Eligible Students
B.Tech. in Civil	1
Integrated MBA (BBA + MBA)	1
B.Arch.	1

The Defence Scholarship Opportunity is a programme designed to provide financial assistance for the education of wards (dependents) of currently serving and retired Defence and Para-military personnel. The scholarship offers varying percentages of financial support based on the rank of the personnel. The eligibility criteria and scholarship percentages are as follows:

- Non-Commissioned Officers (NCO's): Eligible candidates who are wards of NCOs can avail a 25% scholarship for their education.
- Junior Commissioned Officers (JCO's): Wards of Junior Commissioned Officers are eligible for a 15% scholarship to support their educational endeavors.
- Senior Commissioned Officers: Those who are dependents of Senior Commissioned Officers can benefit from a 10% scholarship to assist them in pursuing their education.

Applicants meeting the eligibility criteria are strongly encouraged to apply for this scholarship opportunity. The programme aims to empower and support the education of deserving individuals associated with the defence and para-military services. By taking advantage of this scholarship, eligible candidates can advance their education and contribute to their personal and professional development.

The availability of this benefit is contingent upon meeting the specified conditions mentioned below.

- Aspirants need to undergo the admission process, which includes the NICMAR Common Admission Test (NCAT) or an equivalent score, and a Personal Interview (PI) or Counseling Session (for B.Arch.). Furthermore, they should qualify in the admission process according to the prescribed cut-off.
- Selected candidates for the Outstanding Performance Scholarships **will receive an offer letter** for admission **based on their scholarship eligibility.**
- **First-Come-First Served Basis:** *The scholarship will be awarded on a First Come-First Served basis, emphasizing the importance of prompt action by eligible students. Early applicants have a higher likelihood of securing this valuable financial assistance.*

Scholarship Disclaimer:

- *Valid scores of Entrance Exams (other than NCAT) must have been obtained after 1st July, 2023.*
- *All admissions and scholarships granted by the university are contingent upon approval by the Admissions/Scholarship Committee and the competent authority of the University.*
- *NICMAR University retains the right to modify any or all components of the aforementioned policy without prior notice. Additionally, the University reserves the right to amend the terms of the scholarship periodically without prior notification. All matters are subject to the jurisdiction of NICMAR University, Pune.*

ACADEMIC REQUIREMENTS

The curriculum is organised into eight semesters. A student will need to complete 170 credits to complete the B.Tech. in Civil Engineering Programme. The semester-wise distribution of courses is indicated in Table 1.

i. Types of Courses

The curriculum includes various courses from different areas according to NEP guidelines such as Basic Science, Engineering Science, Civil Engineering, and Humanities to improve students' understanding of key aspects of Engineering along with equipping them with basic and advanced domain-specific courses. The courses are divided into various categories to ensure the all-round development of the students and provide adequate breadth and depth of knowledge. The courses are divided into categories such as Basic Science Course, Engineering Science Course, Programme Core Course, Programme Elective Course, Multidisciplinary, Open Elective, Vocational and Skill, Ability EC, SEC, Indian Knowledge System, Value Education Course, Research Methodology, Communication English, Project/Field Project, Project, Internship/ OJT, Co-curricular Courses as part of the curriculum to truly inculcate the habit of Self-learning. Depending on the type of the course, the total credits in the courses are further classified in Lecture (L), Tutorial (T), and Practical (P). In the lecture sessions, the students are familiarized with concepts and knowledge pertaining to the course. The tutorial components aid the students in better understanding of the concepts through problem-solving, case analysis, or hands-on practice. The practical component is designed for exclusive hands-on training.

The instructors are well trained to impart education using traditional and innovative pedagogical methods like hands-on training, Case Analysis, Team building exercises, peer-to-learning, flipped classrooms and presentations, etc.

a. Basic Science Courses (BSC)

These are the subjects mainly from Basic science areas to provide students with the foundation knowledge required to excel in engineering professional.

b. Programme Core Courses (PCC)

These are the subjects that focus on building the foundations for holistic development and the core domains of civil engineering. These subjects will provide the students with a complete understanding of the analysis, design, and construction process across various civil engineering domains coupled with techniques and tools for better analysis and understanding.

c. Engineering Science Courses (ESC)

This set of courses will enable the students to cultivate skills in other branches of engineering which requires them to become holistic paraprofessionals in the civil engineering domain.

d. Programme Core Elective (PCE)

These electives are designed to provide the students with depth knowledge of civil engineering domains or specialized in three tracks to become expert professionals in their careers.

e. Open Course Elective (OCE)

These electives are offered across different programmes of NICMAR University and are designed to empower the students with advanced skills and knowledge to excel in their careers.

f. Humanities and Social Sciences including Management Courses (HSM)

This liberates the course from the traditional assessment structure of grading and brings in better learning.

ii. Project Work

A student has to start his project work from 7th semester and perform through the entire 7th semester. The student is expected to work on a problem to apply the knowledge acquired during their study. The student will be allotted a Guide by NICMAR University. If the student chooses to have an external guide or mentor from outside, NICMAR University will nominate one of the internal faculty members as a co-guide.

iii. Internship

As part of the curriculum, each student has to undergo supervised field training with reputed organizations. During this period, they may be trained in any domain or function of Civil Engineering. Organizations for internship are carefully selected from among the reputed firms. Based on their performance, students may receive Pre-Placement Offers (PPO). Alternatively, students may opt for working on assignment-based project topic under the guidance of a faculty member. Students will be required to submit a report of their internship and make a presentation on the same.

FACULTY

Faculty is the foundation on which NICMAR University programmes are designed to grow. Therefore, careful attention is paid to attracting the best talent from the academic world as well as industry. The courses are taught by expert faculty members of the University, eminent professionals from the industry from all over the country, and visiting experts from Indian and foreign universities as well as international organizations

Table 1
School of Engineering
B.Tech. Civil Engineering Scheme
Batch-2024-2028

Semester-1							
S. N	Course Code	Course Type	Course Title	Credit Allocation			Total Credit
				L	T	P	
1	246061FEM	ESC	Fundamental of Engineering Mathematics	3	1	0	4
2	246061EPT	BSC	Engineering Physics	3	0	0	3
3	246061EPP	BSC	Engineering Physics Practicals	0	0	1	1
4	246061EME	MD	Elements of Mechanical Engineering	3	0	0	3
5	246061BSM	PCC	Basic and Sustainable Construction Materials	2	0	0	2
6	246061EGT	BSC	Computer-Aided Engineering Graphics	1	0	0	1
7	246061EGP	BSC	Computer-Aided Engineering Graphics Lab	0	0	1	1
8	246061BWP	VSC	Basic Workshop Practices	0	0	1	1
9	246061IKS	IKS	Indian Knowledge System	2	0	0	2
10	246061CET	AEC	Communicative English	1	0	0	1
11	246061CEW	AEC	Communicative English Workshop	0	0	1	1
12	246061ART	CC	Cultural Activities/NSS/Yoga education/Sports/Performing art	2	0	0	2
Total Semester Credits							22
Total Number of Hours / Week				17	1	8	26
Semester-2							
S. N	Course Code	Course Type	Course Title	Credit Allocation			Total Credit
				L	T	P	
1	246062AEM	ESC	Advanced Engineering Mathematics	3	1	0	4
2	246062ECT	BSC	Engineering Chemistry	3	0	0	3
3	246062ECP	BSC	Engineering Chemistry Practicals	0	0	1	1
4	246062EET	MD	Elements of Electrical and Electronics Engineering	3	1	0	4
5	246062EEP	MD	Elements of Electrical and Electronics Engineering Practicals	0	0	1	1
6	246062ENM	MD	Engineering Mechanics	2	1	0	3
7	246062CWP	VSC	Construction Workshop Practices	0	0	1	1
8	246062BIE	BSC	Biology for Engineers	1	0	0	1
9	246062LAN	AEC	Modern Indian /Foreign Language	2	0	0	2
10	246062CCC	CC	Cultural Activities/NSS/Yoga education/Sports/Performing arts	2	0	0	2
Total Semester Credits							22
Total Number of Hours / Week				16	3	6	25
Semester-3							
S. N	Course Code	Course Type	Course Title	Credit Allocation			Total Credit
				L	T	P	
1	246063NME	ESC	Numerical Methods in Engineering	3	0	0	3
2	246063BUC	PCC	Building Construction	3	0	0	3
3	246063ARP	PCC	Architectural Planning	0	0	1	1
4	246063SUT	PCC	Surveying	2	0	0	2
5	246063SUP	PCC	Surveying Practice	0	0	1	1
6	246063CNT	PCC	Concrete Technology	3	0	0	3
7	246063CNP	PCC	Concrete Technology Practicals	0	0	1	1
8	246063SOM	PCC	Strength of Materials	3	0	0	3
9	246063EVT	PCC	Environmental Engineering	3	0	0	3
10	246063EVP	PCC	Environmental Engineering Practicals	0	0	1	1
11	246063COI	VEC	Constitution of India	1	0	0	1

1	246063MAO	MAT	Mathematics for Lateral Entry students -1	3	1	0	0
2							
Total Semester Credits							22
Total Number of Hours / Week				21	1	8	30

Semester-4							
S. N	Course Code	Course Type	Course Title	Credit Allocation			Total Credit
				L	T	P	
1	246064OTE	ESC	Optimization Techniques in Engineering	3	0	0	3
2	246064FMT	PCC	Fluid Mechanics	3	0	0	3
3	246064FMP	PCC	Fluid Mechanics Practicals	0	0	1	1
4	246064STA	PCC	Structural Analysis	3	1	0	4
5	246064SMT	PCC	Soil Mechanics	3	0	0	3
6	246064SML	PCC	Soil Mechanics Practicals	0	0	1	1
7	246064HET	PCC	Highway Engineering	3	0	0	3
8	246064HEL	PCC	Highway Engineering Practicals	0	0	1	1
9	246064PYT	MD	Introduction to Python	1	0	0	1
10	246064PYL	MD	Python lab	0	0	1	1
11	246064MAT	MAT	Mathematics for Lateral Entry students -2	3	1	0	0
Total Semester Credits							21
Total Number of Hours / Week				19	2	8	29

Semester-5							
S.N	Course Code	Course Type	Course Title	Credit Allocation			Total Credit
				L	T	P	
1	246065EMT	PCC	Engineering Management	2	0	0	2
2	246065EML	PCC	Engineering Management Lab	0	0	1	1
3	246065ASA	PCC	Advanced Structural Analysis	2	1	0	3
4	246065SAL	PCC	Structural Analysis lab	0	0	1	1
5	246065RCC	PCC	Design and Drawing of RCC Structures	3	0	0	3
6	246065RCL	PCC	Design and Drawing of RCC Structures lab	0	0	1	1
7	246065FEN	PCC	Foundation Engineering	3	0	0	3
8	246065TRE	PCC	Transportation Engineering	3	0	0	3
9	246065HWR	PCC	Hydrology and Water Resource Engineering	3	0	0	3
10	246065PST	MD	Programming for Problem Solving	1	0	0	1
11	246065PSL	MD	Problem Solving Using MatLab	0	0	1	1
Total Semester Credits							22
Total Number of Hours / Week				17	1	8	26

Semester-6							
S.N	Course Code	Course Type	Course Title	Credit Allocation			Total Credit
				L	T	P	
1	246066ETT	PCC	Estimation & Costing	3	0	0	3
2	246066ETL	PCC	Estimation & Costing Lab	0	0	1	1
3	246066DSS	PCC	Design and Drawing of Steel Structures	3	0	0	3
4	246066DSL	PCC	Design and Drawing of Steel Structures Lab	0	0	1	1
5	246066ADR	PCC	Advanced Design of RCC	2	1	0	3
6	246066SHT	PCC	Structural Health Monitoring	2	0	0	2
7	246066SHP	PCC	Structural Health Monitoring Practicals	0	0	1	1
8	246066ABC	PEC	Elective-I	3	0	0	3
9	246066ABC	OEC	Open Elective-I	3	0	0	2
10	246066ABC	OEC	Open Elective-II	2	0	0	2
11	246066MPR	PRO	Minor Project	0	0	0	0
Total Semester Credits							21
Total Number of Hours / Week				17	1	8	26

Semester-7							
S. N	Course Code	Course Type	Course Title	Credit Allocation			Total Credit
				L	T	P	
1	246067RMT	RM	Research Methodology	4	0	0	4

2	246067ABC	PEC	Elective-II	3	0	0	3
3	246067ABC	PEC	Elective-III	3	0	0	3
4	246067ABC	PEC	Elective IV	3	0	0	3
5	246067ABC	PEC	Elective-V	3	0	0	3
6	246067PRW	Project	Project Work	0	0	4	4
Total Semester Credits							20
Total Number of Hours / Week				8	0	24	35
Semester-8							
S. N	Course Code	Course Type	Course Title	Credit Allocation			Total Credit
				L	T	P	
1	246068ABC	PEC	Elective-VI	3	0	0	3
2	246068ABC	OEC	Open Elective-III	3	0	0	3
3	246068INT	Project	Internship	0	0	24	12
4	246068PLE	VEC	Professional Practice, Law & Ethics	2	0	0	2
Total Semester Credits							20
Total Number of Hours / Week				16	0	8	24
Total credit							170

Note:

- *Only for lateral entry students
- ABC: Course Character

Programme Core Elective

Topics	Elective-I	Elective-II	Elective-III	Elective-IV	Elective-V	Elective-VI
Construction Technology & Management	246066COT Contracts & Tenders	246067MCP Modern construction Practices	246067BMO Building Information Modelling	246067ARC AI and Robotics in Construction	246067ASU Advanced Surveying	246068CME Construction Methods and Equipment
Structural Engineering	246066PES Pre-engineered Structures	246067COC Concrete Composites	246067FEL Finite element method	246067ESD Earthquake Engineering and Structural Dynamics	246067PCO Prestressed Concrete	246068DIE Design of Advanced Infrastructure Elements'
Transportation Engineering	246066TEM Traffic Engineering and Management	246067MSC Metro Systems and Engineering	246067MAE Marine Engineering	246067UTS Urban Transportation Planning and Systems	246067RSE Road Safety Engineering	246068APD Airport Planning and Design

Open Elective

OEC-1	OEC-2	OEC-3
246066ABC	246066ABC	246068ABC
246066RIM Risk Management	246066SCM Supply Chain Management	246068AMA Asset Management
246066FMG Financial Management	246066ECO Managerial Economics	246068VOP Valuation of Properties
246066BUD Business Development	246066PFA Project Formulation & Appraisal	246068DMG Disaster Management
246066ENS Environment and Sustainability	246066OOHR Organizational behaviour & Human resource management	246068LET Leadership and Entrepreneurship

Six Programme Elective Courses need to be chosen from the table

The student has to select based on semester one from the given set of electives either in a selected track or anyone from the given elective.

To specialize with any of the three tracks, it is essential to complete the compulsory course pertaining to that specialization in Semesters 6,7 and 8.

If the students choose not to specialize in any track then students are free to choose any courses from the programme electives of Semesters 6, 7, and 8 from their respective pool to complete the total credit requirement.

*Three electives from **Open Elective Course** need to be identified by the student to complete the total credit requirement.*

N.B: Specific electives will be offered subject to meeting the minimum quorum and the list may be updated based on academia and industry inputs to make the curriculum more robust and market-oriented.

ASSESSMENT

Course Examination

Typically course examination comprises two parts: Term end examination and Internal assessment. However, depending on the nature of the course, certain courses will be evaluated completely on the basis of Continuous Internal Assessments.

Examinations Scheme

The weightage for internal and term end examinations for a course will be 50% and 50% respectively for all programmes of the university. The term end examination for all programmes will be of 50 marks and for a duration of two hours. Separate passing shall be applicable with a minimum 40% in each assessment. The examination scheme may vary as per the guidelines of the regulatory body, if any. The backlog courses examination scheme shall remain as per the previous examination ordinances/ rules/ regulations for candidates admitted thereafter.

a) Internal Assessment (IA)

Internal assessment is the continual assessment of the performance of a candidate during the study of a course done by the concerned faculty member. For a course with Term end examination, 50% weightage is assigned to internal evaluation. This internal evaluation of candidates should be carried out by at least 3 or more components as given below. Maximum weightage for a component must not exceed 40% of the total internal marks.

- Class-participation
- Case analysis and presentation
- Quizzes/ Class test/ Surprise test/ Assignments (announced/ unannounced)
- Term papers/Decision sheets/ Project reports
- Research Paper Presentations /Viva
- Individual assignment/ Group assignments/ Presentations/ Decision sheets
- Sessional / Mid-term examination
- Field project
- Role Play/Simulation
- Any other school/ programme/ course specific component

b) Term End Examinations

The Term End Examinations (TEE) conducted for the regular courses taught in the respective Term shall be referred to as the Term End Examinations. The Term End examinations shall be conducted on campus or at remote locations in physical or digital mode. The mode and location of examinations would be declared by the examination department along with the schedule of the examinations.

c) Laboratory: 50 Marks

The Laboratory session is held every week as per the timetable and the performance of the student is evaluated in every session for 25 Marks. At the end of the semester, a test is conducted for 25 marks.

d) Project Work

Students' project works are evaluated by a guide and an internal faculty during Semester 7th. Final project work will be carried out by the students in Semester 7. The final project seminar is

evaluated by guide and internal faculty during Semester 7 and the viva voce is evaluated by a guide and an external expert during Semester 8.

AWARD OF DEGREE

On successful completion of four years, the eligible student will be awarded B.Tech. Recognition of any other interim completion of degree requirements by the student will be subject to University academic regulations that prevail at that point in time.

STUDENT DEVELOPMENT

NICMAR University has a number of schemes in place to provide full or partial financial support to a variety of student activities. The university strongly believes that co & extra-curricular activities significantly contribute to the all-round development of its students.

ABOUT NICMAR UNIVERSITY, PUNE

NICMAR University, Pune is established under State Private University Act. (Government of Maharashtra Act. No. XXXVI of 2022). University is situated at Balewadi, 14 kilometres away from the Pune Central Railway Station and 7 kilometres from the Savitribai Phule Pune University and along the Mumbai-Bangalore expressway. It has over 4,71,853 square feet built up area and more 1,25,000 square feet area under construction on a 10-acre plot of land built using the latest materials and technologies and is equipped with state-of-the-art facilities. The campus buildings blend harmoniously with the landscaped greenery all around.

The University is having barrier-free environment for the independence, convenience and safety of all persons including people with disabilities. The physical infrastructure of the campus includes classrooms, seminar rooms, tutorial rooms, mini auditorium, workshops, engineering laboratories, student common room, multi-purpose hall, placement GD room, placement PI room, placement corporate room, faculty cabins, offices, placement office, student lounge, boys' and girls' hostels, executive hostel, warden and lady warden residence, a library with stack areas, reference section and documentation centre, scholar's cabins, computerised catalogues, inter-campus online library, computer centres, 24-hour internet and e-mail facility, a guest house, a modern and well-equipped kitchen, students, faculty and staff dining halls.

Other facilities include a photocopying centre, solar water heating, sewage treatment plant, vermiculture, rain water harvesting system, lift facilities for all hostels, cafeteria, generator backup to all the buildings, doctor, dispensary, first-aid kits, community hall, indoor and outdoor recreation infrastructure i.e., football ground, basketball court, tennis court, badminton court, volleyball court, gymnasium (separate for boys & girls), recreation hall with table tennis, carrom boards, chess boards, T.V. with dish connection, students' parking facility (two wheeler), stationery and general store, xerox services, laundry facility, multipurpose open court (students' play area of 10000 sq.ft. approx.), auditorium having 1000 seating capacity, classroom, syndicate room, computer lab, amphitheatre, and basement parking etc. The campus is equipped with CCTV and round the clock security services.

ANTI-RAGGING POLICY OF NICMAR UNIVERSITY, PUNE

As per the directives issued by the Hon'ble Supreme Court of India and the University Grants Commission (UGC), ragging is a cognizable and punishable offence and is totally banned in or out of the University. The University shall take necessary action in accordance with the UGC Regulations for Curbing the Menace of Ragging in Higher Educational Institutions, 2009, against those found guilty of ragging and/or abetting ragging, actively or passively, or being part of a conspiracy to promote ragging.

The University gives paramount importance to the safety and security of every student and follows a zero-tolerance policy against Ragging. Helpline Numbers: 020-66859248/9322069331/1800-180-5522. Any student found indulging in ragging or any related activity will be dealt with strictly by appropriate disciplinary action as prescribed under Clause 9 of the Anti-Ragging Regulation of UGC.

Please visit: <https://www.antiragging.in/> for UGC regulations against ragging.

SUPPORT SERVICES

i. Department of Information Technology

Computer centre at NICMAR University Pune, has sufficient number of computers with a state-of-the-art AR VR studio (Augmented Reality and Virtual Reality), Learning Management

System(LMS), leading application packages like Microsoft Project Management, Oracle suite of Project Management packages including Contract Management, Enterprise Portfolio Project Management, Professional Project Management, and Contractor and Risk Analysis; Autodesk suite of Building Information Modeling comprising 24 software products including, AutoCAD, Revit, Navisworks, Infracore etc.; Project Wise 365 and 15 software products from Bentley Systems India Pvt. Ltd., Risk Management Software packages including, @Risk, Evolver, Stat Tools, Top Rank, Neural Tools, Precision Tree, CANDY, Microsoft Dynamics ERP, Highrise Construction ERP; Orell Digital Language Software package is available for students to develop proficiency in English; TURNITIN for plagiarism check, Prochain for Critical Chain Project Management, VisiLean for Lean Construction & BIM Management, CalQuan for quantity calculation and cross section drawing for linear projects and HDM-4 for checking engineering and economic viability of road projects, etc.; Internet and e-mail facilities are to all students. The centres are open from 9.00 a.m. to 5.30 p.m. Students get hands on practice under the able guidance of qualified and experienced faculty members. The campus of NICMAR University at Pune is equipped with Video Conferencing System, interactive screens, Construction 4.0 lab and virtual classroom platforms such as MS Teams, Webex and Zoom to run online classes and other online activities. Biometric Attendance.

ii. Library

The NICMAR University library is designed to support the students, faculty & research scholars. It is a specialized library in the area of Construction Management, Project Management, Real Estate Management & Infrastructure Development. In addition, the library provides knowledge resources in a variety of Management & Engineering subjects such as: Information Technology, Engineering, Environment, Social Sciences, all areas of Management, Smart Cities, Entrepreneurship, Architecture, Planning, Taxation, Law etc.

The Library is the hub of the academic life of the NICMAR University campus. Housed in spacious halls on the first floor of academic block, the library is well stocked with textbooks, technical journals, periodicals and electronic resources. It holds a collection of more than 28000 titles, comprising over 25700 Books, Periodicals, Standards, Cases, Technical Notes, Bound Volumes of Periodicals, Theses & Audio-Visual Materials. It also subscribes to electronic resources which include Scopus – The Citation Database, PROQUEST ABI Inform Complete (9800+ Titles), ASCE Journals (41 Titles), ASCE Proceedings (875 Titles), SCIENCEDIRECT – Business Management & Accounting (121 Journals), TAYLOR & FRANCIS Online (80 Journals), SAGE – Urban Studies & Planning (42 Journals), SAGE – Management (22 Journals), PROQUEST e-Book Central – Business & Engineering (68,500+ Books), ELSEVIER E-Books (155 Titles), PEARSON E-Books (54 Titles), and MCGRAW HILL E-Books (35 Titles). Other titles include ‘All India Reporter’, ‘Economic & Political Weekly’ and Economic & Business databases of M/s CENTRE FOR MONITORING INDIAN ECONOMY (CMIE) including ProwessIQ, Industry Outlook, Economic Outlook, States of India and the CapEx. It also subscribes to the Anti-plagiarism software ‘Turnitin – Originality Check’ for the faculty.

iii. Internet and E-mail

Dedicated 1+ Gbps Internet bandwidth for 24X7 is provided to students through Wired LAN & WiFi with a backup provision. Each student is provided with the University e-mail ID for academic communications alongwith Office 365 Access.

iv. Classrooms

NICMAR University has large, medium and syndicate capacity classrooms which are well-equipped with public audio system, Interactive Display Panel, LCD projectors, computers with internet connections and are fully air-conditioned.

v. Extra-curricular Activities

Students’ training at NICMAR University, Pune goes beyond the confines of classroom and curriculum. In order to foster a holistic development of students, the University supports and encourages its students to plan, organise and participate in various co & extracurricular activities. The Student Council represents the general body of students and organises various techno-managerial, sports and cultural events, and celebrates all the major festivals throughout the year, involving the student clubs and student volunteers.

Some salient features are as follows:

- Well-equipped, state-of-the-art facilities exist for indoor and outdoor sports such as badminton, table tennis, basketball and football etc.
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- Students are encouraged to participate in intra and inter-college co-curricular, cultural and sports competitions.
 - Various intra and inter-college events like Udbhav, Sanskriti, Chakraview, Teknikala, NICMAR Premier League, Spardha, E-Summit, Academic Conclave, and Reverbs, etc. are organised for the development of co & extra-curricular skills of students.
 - Students also bring out in-house magazines, newsletters and similar publications.
 - Students of NICMAR University pursue their varied hobbies and interests after academic hours through different special interest clubs actively functional on the campus. Various activities are organised by the Music club, Photography club, Dance club, Technical club, Movies and Dramatics club, Sports club, Literary club, R & D club, Start-up club, Design club and Fashion club throughout the year. All these clubs are managed by students.
 - Separate well-equipped gymnasia are available for girls and boys, assisted by qualified sports supervisors.
 - An international sports stadium is just across the road and students can access swimming pools, gymnasia, field tracks and other facilities on payment basis.

Thus, the University leaves no stone unturned to ensure that the students have a memorable and enriching campus life contributing to their all round development.

NICMAR UNIVERSITY EDUCATIONAL LOAN PARTNERS

The banks/financial organisations mentioned below offer educational loans to the students desirous of pursuing NICMAR University's programmes.

- **HDFC Credila Financial Services Ltd.** [Toll Free No.: 1800-209-3636/Ph. No.: 9765491467]
- **ICICI Bank** [Ph. No.: 8956019228 Or SMS ELOAN to 5676766]
- **Saraswat Co-operative Bank Ltd.** [Ph. No.: 020-27292957/58 OR Give a missed call on this number: 9029050027]
- **IDFC First Bank Ltd.** [Toll Free No.: 1860-500-9900/Ph. No.: 9096923798/9049873109]
- **State Bank of India, SPBB, Baner, Pune** [Email: sbi.13295@sbi.co.in]
- **Bank of Baroda** [Give a missed call on this number 8467001122 Or Toll free number 1800223344/45 Or Ph. No.: 7709977826/8007352007/9948505144]
- **Canara Bank** [Email: rahcopne@canarabank.com]
- **Bank of Maharashtra** [Ph.No.: 89992 15408/96232 93296/8888969602]
- **Credenc Web Technologies Pvt. Ltd.** [Website: <https://www.credenc.com/>, Ph. No.: 7738486004, Email: contact@credenc.com]
- **propelld** [Website: <https://www.propelld.com/>, Mr. Sagar Kaushik, Ph. No.: 8147495172]
- **kuhoo** [Website: <https://www.kuhoo.com/>, WhatsApp No.: 74000 03839, Ph.No.: 74000 03940]

Applicants may contact the branches of these banks/financial organisations for further details and information.

DISCIPLINE AND CODE OF CONDUCT

Students shall be courteous and formal in conduct with faculty and staff at all times, failing which appropriate disciplinary action shall be taken against the erring student. A Code of Conduct for the students is issued at the time of admission and it is mandatory for all students to abide by.

Disclaimer: The NICMAR University reserves the right to revise any/all of the components of the above policy, including payment schedule and refund policy without any prior notice.

The University reserves the right to revise the contents of the brochure from time to time without any prior notice. All matter is subject to NICMAR University, Pune jurisdiction only.



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