

**i-Max NEP 2020 Platform also Includes
"360-Degree Career Development Centre"**



GeM
Government
eMarketplace

**GeM Certified
OEM**

India to the Max! Through YOU!

i-MAX

**NEP 2020
for Architecture
& Planning**

i-max.org



With NEP 2020 for Architecture & Planning, You Bring Genuine Innovation, and True Differentiation for Your Institution!

The Finest Delivery of Architecture & Planning Education: *Right from the Induction, to the Final Placement & Start-Up!*

NEP 2020 for Architecture & Planning meets every crucial **Qualitative Requirement** of NEP 2020 in letter and spirit - with innovative approaches, and tools. It ensures Recognizing, identifying, and fostering the unique capabilities of each student, and helps them add value to themselves, their families, society and the country.

Indian students come from unique backgrounds. Their requirements are very different. They need India-specific approaches and tools to meet the requirements of NEP 2020.

NEP 2020 for Architecture & Planning is a professional skill-acquisition platform with over hundred unique, innovative tools specifically developed for Indian students.



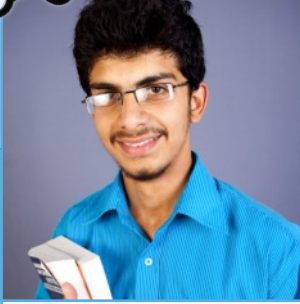
Executive Summary of Contents: NEP 2020 for Architecture & Planning

- **For Induction Programme, and to Generate Interest & Pride in Architecture & Planning:** Six interactive self-learning modules. *Complete list inside.*
- **For Placement:** Over 30 interactive multimedia modules & tests including AI-based Professional Interview Simulator for Architecture & Planning. Professional Interview Trainer. Personalised career guidance for Architecture & Planning. *Complete list inside.*
- **For Improving Learnability:** Over 20 interactive multimedia modules to build Higher Order Thinking (HOT) as per Bloom's Taxonomy. This includes Critical & Creative Thinking for Architecture & Planning, GATE level competency tests, *Complete list inside.*
- **For Start-Up & Entrepreneurship:** Over 22 modules including Problem Finding & Idea Generation, All Innovations are Not Technical etc. *Complete list inside.*
- **For Graduate Attributes & Sustainable Development:** Over 18 modules including Personal Efficacy, Engineering Judgment etc. *Complete list inside.*



A Smart Architect is Made Right from the First Day of the Architecture Program! **Therefore, Differentiate Yourself!**

1



Differentiate Yourself: During Admission & the First Year of Architecture & Planning

Students' experiences during the first year of engineering have a make-or-break impact on their life - sometimes, its effects last decades!

18 Interactive Self-Learning Modules: 1. Why Architecture & Planning is Inspiring, Futuristic & Rewarding? 2. How to learn Architecture & Planning with your learning style? 3. What makes an excellent engineer? Engineering Habits of Mind. 4. Smart English through Technology & Science, 5. Disposition for Asking Questions, 6. Learning Engineering from the the Human Body, 7. Learning Engineering by Looking Around You, 10 Goal Setter,... **And More.**

2

Differentiate Yourself: During Second & Third Year of Architecture & Planning

The way the students make meaning out of the core subjects in these four mid-semesters determines their feeling of self-worth and their future as competent engineering professionals.



22 Interactive Self-Learning Modules: 1. Critical & Creative Thinking for Architecture & Planning, 2. Viva-Voce Simulator for subjects of each semester, 3. The careers you can build (including start-ups) with your personality & Architecture & Planning, 4. Crucial Principles of Engineering, 5. Misconceptions about Engineering, 6. Problem finding and evaluating, 7. Engineering Leadership, 8. Problem Solving Aptitude,... **And More.**

3



Differentiate Yourself: During Final Year of Architecture & Planning , & for Employability/ Higher Education

The confidence that students develop about their engineering programme's true value is central to their commitment to higher education and quality employment.

24 Interactive Self-Learning Modules: 1. GATE Level Competency Tests for Architecture & Planning, 2. Architecture & Planning Professional Interview Simulator, 3. Professional Interview Questions & Insights, 4. Trouble-shooting Aptitude Tests, 5. Situational Judgment Tests, 6. Lateral Thinking tests, 7. Dependability & Efficiency Tests, 7. Logical Reasoning Tests, 8. Numerical reasoning Tests, 9. Critical Dissection Tests, 10. Diagrammatic Thinking Tests, ...**And More.**



4

Differentiate Yourself: Help Students Form Start-ups & Enter Sustainable Entrepreneurship

Our engineering students are not getting original ideas like their counterparts in other countries. Why is it so? Why can't (don't) they notice India-specific problems to solve?



16 Interactive Self-Learning Modules: 1. Patriotism, Self Respect & Start-up, 2. Problem Finding, and Evaluating, 3. Self-Confidence for Starting-Up, 4. Disposition for Innovation Tests, 5. Disposition for Start-Up Tests, 6. All Innovations are Not Technical, 7. Appropriate Technology, 8. Lean Start-up, 9. Learning from Mistakes, 10. How to Get Original Ideas, 11. The Art of the Start, 12. Reverse Engineering, ... **And More.**

5



Differentiate Yourself: Help Students Become Societal Role-Models & Responsible Citizens

Each year, engineering education can inject two million role models and responsible citizens into our society. It can inspire other youth & shape smart opinions for a bright future.

16 Interactive Self-Learning Modules: 1. Applied Graduate Attributes: Socio-technical factors of success, 2. Building, Evaluating, and Maintaining own performance, 3. Differentiating oneself in the chosen profession, 4. Personal Efficacy & Intrapreneurship, 5. Effective, & Successful professional career, 6. Environment & Sustainability, 7. Engineering Judgment, 8. Engineer & Society, 9. Lifelong Learning, ... **And More.**



AI-based Professional Interview Simulator for Architecture & Planning

52 Topics, Over 6900 Video Questions from Architecture & Planning
Students must select 3 focus areas for each interview/viva-voce attempt.

Focus 1 and Focus 2: Architectural Conservation, Architectural design, Building Services: HVAC/Fire/Acoustics, Building services: Piping/Waste Disposal, History of Architecture, Theory of Structures, Interior Design, Landscape Design, Professional Practice, Quantity Surveying & Estimation, Specifications Writing, Design of Structures – Steel, Design of Structures – Concrete & Masonry, Urban & Regional Planning, Building Materials & Construction, Engineering Geology, Environmental Engineering, Foundation Engineering, Geotechnical Engg / Soil Mechanics, Infrastructure Engineering, Structural Analysis, Surveying & Levelling, Electronics Engineering, Electrical Engineering, Computer Engineering, Mechanical Operations...etc



Focus 3: Product Design Methodology, Engineering Habits of Mind, Critical Thinking, 21st Century Skills, Energy Conservation, Engineering Economics, Engineering Ethics, Ergonomics & Human Factors, Safety, Responsibility & Rights, Operations Research, Production Management, Reliability Engineering, Project Management, Industrial Relations, Office/Factory Management, Engineering Marketing, Behavioural Science, Finance for Engineers, Quality Assurance, World Class Manufacturing of building materials. Etc.

Critical Thinking & Creative Thinking for Architecture & Planning

This unique module provides interactive, hands-on experience with over 300 contemporary, practical examples, over 1000 contextual questions, Module-wise exercises etc.

This Module has TEN Sections:

1. How to exploit the full potential of Architecture & Planning?
2. The need to think critically in Architecture & Planning.
3. The need to think Creatively in Architecture & Planning.
4. The need to apply Critical & Creative Thinking together.
5. Pre-requisites for applying Critical Thinking on self & others.
6. Applying Critical Thinking for solving problems.
7. Pre-requisites for applying Creative Thinking on self & others.
8. Applying Creative Thinking for solving problems.
9. Blending Critical Thinking & Creative Thinking with System Thinking for Architecture & Planning.
10. Developing Meta-Cognitive Skills/Behaviours for problem Identification & mastery in Architecture & Planning.





Personalised Reports, Outputs, & Uploads

As i-Max has a holistic approach to build value in each Architecture & Planning student, it generates multiple contextual reports, that include suggestions, and recommendations. These include:

Personal Recommendations for Architecture & Planning Career & Higher Education. Most students know about a few choices of employment with Architecture & Planning. This module offers over hundred career choices based on his/her personality - first choice, second choice, core careers, and the careers they should never opt for.



Personal Recommendations: What is the best way for You to Learn Architecture & Planning? Most students try to imitate the learning style of their friends. Such approaches prevent students from reaching their best potential. i-Max psychometric tests ensures students realise their learning styles for their branch, and find balance between learning and playing.

Interview Report & Suggestions / Recommendations - for Each Interview: With world's first and only AI-based Interview Simulator for Architecture & Planning, students can attempt any number of realistic interview before the real interview or their technical viva-voce examinations.

Auto Report	
Name	_____
Specialization	_____
Interview Date	_____
Interview Time	_____
Topic Area for this Interview	_____
Topic 1	_____
Topic 2	_____
Topic 3	_____
General Observation (out of 10)	_____
Performance Indicator (out of 10)	_____



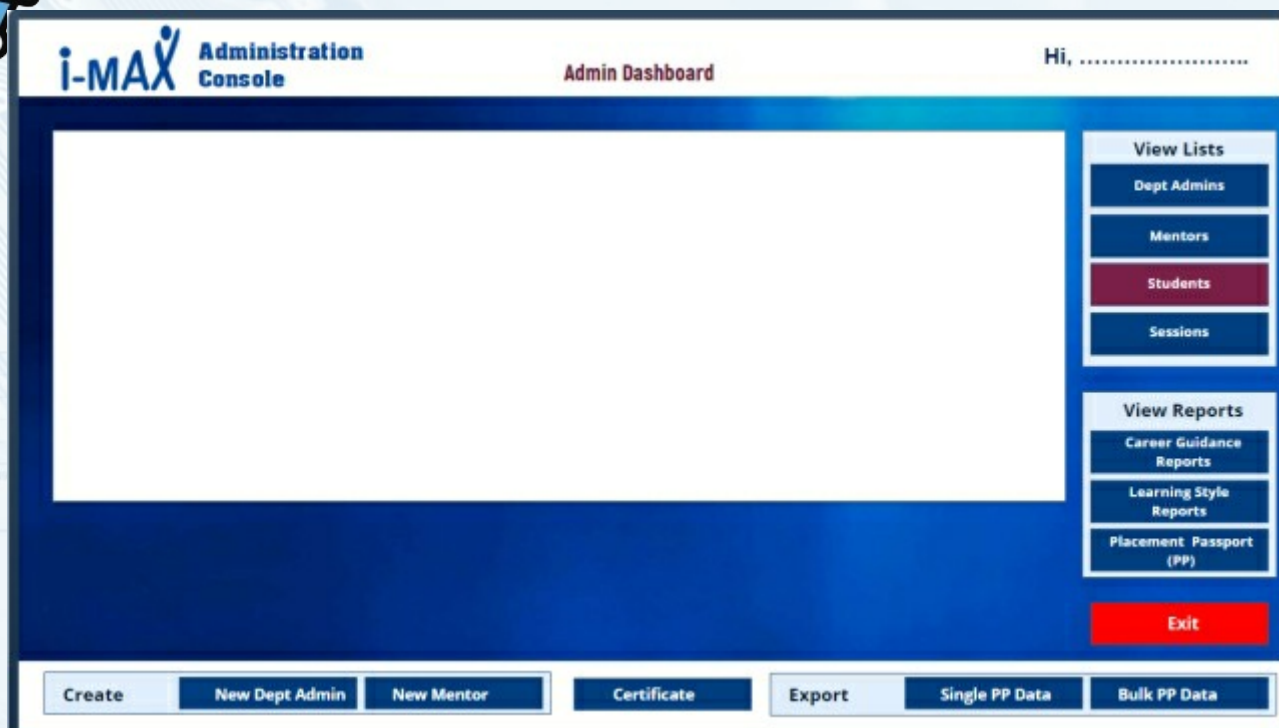
Personal Feedback on Critical Thinking and Extempore Speaking using the Communication Simulator: i-Max has world's first and only extempore speaking (critical thinking) simulator. It has the rare feature of capturing the communication short comings and link them to the lessons.

Personal Placement Passport for Architecture & Planning: Institutions can make students responsible for their own eligibility for campus placements and the Placement Passport can be shared with the campus recruiting companies. This makes the onus of skill building on students, and make them responsible for their own future.

Placement Passport			
Name	_____		
Branch	_____		
Registration No.	_____		
Registration Date	_____		
Result	_____		
Eligible for appearing for Placement Process	_____		
Competency Report			
Competency	Score		
1. Engineering Communication	Completed		
2. Interview Interview Training	Completed		
3. Critical Thinking & Problem Solving	Completed		
4. Professional Competency Skills	Completed		
5. Leadership	Completed		
6. Empathy	Completed		
7. Analytical Skills	Completed		
8. Start-up & Entrepreneurship	Completed		
Ongoing Extracurricular Activities			
Activity	Description	Date & Time	Result
1	Participated in a workshop on Leadership	15-06-20	Completed
2	Participated in a workshop on Problem Solving	15-06-20	Completed
3	Participated in a workshop on Critical Thinking	15-06-20	Completed
4	Participated in a workshop on Professional Competency Skills	15-06-20	Completed
5	Participated in a workshop on Leadership	15-06-20	Completed
6	Participated in a workshop on Empathy	15-06-20	Completed
7	Participated in a workshop on Analytical Skills	15-06-20	Completed
8	Participated in a workshop on Start-up & Entrepreneurship	15-06-20	Completed

Institutional Dashboard: Can be Used for NAAC/NIRF Accreditation

All critical activities on i-max will be monitored, and captured for various purposes. As an effective tool for placement or for accreditation by multiple agencies.



Benefits, that You Won't Find Elsewhere!

As i-Max is founded on advanced learning theories and the latest technologies with the future in mind, it offers stunning benefits.

The cognitive learning experience that online or real classrooms can't provide - wherever your institution is located: i-Max modules can't be replicated online and are not affordable to conduct in classrooms.

Real value for money. Financial savings for many years: i-Max is available with No recurring costs irrespective of the number of students, number of attempts & the number of branches of engineering.

Higher placements & happy, proud alumni network: i-Max dissimulates the kind of knowledge that is not practically available for professional colleges.

Raising the quality & reputation bar: i-Max is based on latest learning theories & frameworks. Usage of this increases the quality of not only the students but also the faculty.

Students feel the accountability & undertakes the onus of learning: Students realise the need of active preparations using many other sources. They engage more in learning.

Teachers' efforts become more visible, & understood. Teachers command more respect: i-Max activities are archived, and comments & feedbacks are accounted.

Teachers can plan activities better and execute the plans: As the participation & engagement of the students improve, classes become more productive and efficient.

Use the Freedom of NEP 2020 to Expand Your Institution's Vision!

Anyone can construct buildings, add air-conditioning, buy computers, & sign MOUs with foreign universities. But it takes **Genuine Vision** to help students construct "**Mental Infrastructure**" - ie, the **Cognitive Rigour & Competencies** to face an uncertain future! **With i-Max, You Can Implement Your Higher Visions!** **And, That is the Differentiation!**



i-Max: For All Branches of Engineering, Technology & Management!

NEP 2020 is NOT about "tabulating the same data in new, & creative ways". NEP 2020 demands adopting new **Qualitative Approaches** that guarantee **Higher Order Thinking (HOT) in students** - that makes Indian students valuable. i-Max NEP 2020 Platform is **the only solution to achieve that**. i-Max is available for:

1	Mechanical Engineering	15	Petroleum Engineering
2	Production Engineering	16	Petrochemical Engineering
3	Civil Engineering	17	Chemical Engineering
4	Architecture & Planning	18	Polymer Technology
5	Electrical Engineering	19	Plastics Engineering
6	Electronics Engineering	20	Electronics & Telecommunication
7	Instrumentation & Control Systems	21	Textile Technology
8	Computer Engineering	22	Textile Production Engineering
9	Information Technology	23	Environmental Engineering
10	Electrical & Electronics	24	Industrial Engineering
11	Mining Engineering	25	Artificial Intelligence
12	Metallurgical & Materials Engineering	26	Google, Apple, Meta Innovation Careers
13	Mechatronics & Robotics Engineering	27	Big-4 Consultancy Careers
14	Bio-Medical Engineering	28	Management (MBA)

i-Max: Learning Theories & Frameworks Deployed

Malcolm Baldrige Criteria for Educational Excellence, William Perry's Scheme for Cognitive Development, Bloom's Taxonomy (All Three domains), Webb's Depth of Knowledge, *Prashnopanishad*, Cognitive Constructivism, Experiential Learning, Project-based Learning, Content-based Instruction, Situated Cognition,... **And More.**

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Architecture & Planning**



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