

**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 Textile  
Technology**

[i-max.org](http://i-max.org)





**With NEP 2020 for Textile Technology, You Bring Genuine Innovation, and True Differentiation for Your Institution!**

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

**NEP 2020 for Textile Technology** 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 Textile Technology** is a professional skill-acquisition platform with over hundred unique, innovative tools specifically developed for Indian students.



### **Executive Summary of Contents:**

- **For Induction Programme, and to Generate Interest & Pride in Textile Technology:** Six interactive self-learning modules. *Complete list inside.*
- **For Placement:** Over 30 interactive multimedia modules & tests including AI-based Professional Interview Simulator for Textile Technology. Professional Interview Trainer. Personalised career guidance for Textile Technology. *Complete list inside.*
- **For Ensuring Learnability:** Over 20 interactive multimedia modules to build Higher Order Thinking (HOT) as per Bloom's Taxonomy. This includes Critical & Creative Thinking for Textile Technology, 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 Textile Technologist is Made Right from the First Day of the Engineering Program! **Therefore, Differentiate Yourself!**

1



### **Differentiate Yourself: During Admission & the First Year of Textile Technology**

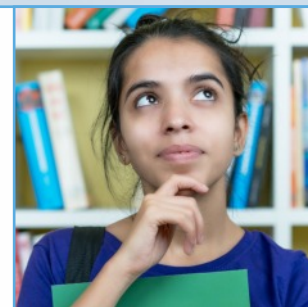
Students' experiences during the first year of engineering have a make-or-break impact on their life - sometimes, its effects last decades!

**18 Interactive Self-Learning Modules:** 1. Why Textile Technology is Inspiring, Futuristic & Rewarding? 2. How to learn Textile Technology 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 Textile Technology**

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 Textile Technology, 2. Viva-Voce Simulator for subjects of each semester, 3. The careers you can build (including start-ups) with your personality & Textile Technology, 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 Textile Technology, & 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 Textile Technology, 2. Textile Technology 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 Textile Technology

### 51 Topics, Over 5200 Video Questions from Textile Technology

Students must select 3 focus areas for each interview/viva-voce attempt.

**Focus 1 and Focus 2:** Yarn Manufacturing, Modern Yarn Production, Weaving, Fabric Structure, Advanced Fabric Structure, Physical Testing of Textiles, Textile Costing, Technical Textile, Fibre Science & Textile Structure, Modern Spinning Technology, Modern Weaving Technology, Process Control & Quality in Spinning, Modern Fibre Technology, Process Control & Quality in Weaving, Fashion Art & Technology, Textile Fibres, Fibre Physics, Analytical Textile Chemistry, Chemistry of Intermediates & Dyes, Applications of Textile Auxiliaries, New Technologies in Textile Processing, Industrial Engineering, Computer Engineering, Electrical Drives & Controls, Electrical Machines, Electronic Instrumentation, PLC & SCADA Applications, Chemical Process Safety, Corrosion Engineering, Mechanical Operations, Plastics in Packaging. **Etc.**

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



## Critical Thinking & Creative Thinking for Textile Technology

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 Textile Technology?
2. The need to think critically in Textile Technology.
3. The need to think Creatively in Textile Technology.
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 Textile Technology.
10. Developing Meta-Cognitive Skills/Behaviours for problem Identification & mastery in Textile Technology.







## Personalised Reports, Outputs, & Uploads

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

**Personal Recommendations for Textile Technology Career & Higher Education.** Most students know about a few choices of employment with Textile Technology. 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 Textile Technology?** Most students try to imitate the learning style of their friends. Such approaches prevent students from reaching their best potential. i-Max psychometric tests ensure 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 Textile Technology, students can attempt any number of realistic interview before the real interview or their technical viva-voce examinations.

i-Max Professional Plus	
Auto Report	
Name	_____
Registration	_____
Interview Date	_____
Interview Time	_____
Interview Topic	_____
Interview Results	_____
Feedback	_____
Comments	_____
Signature	_____
Date	_____



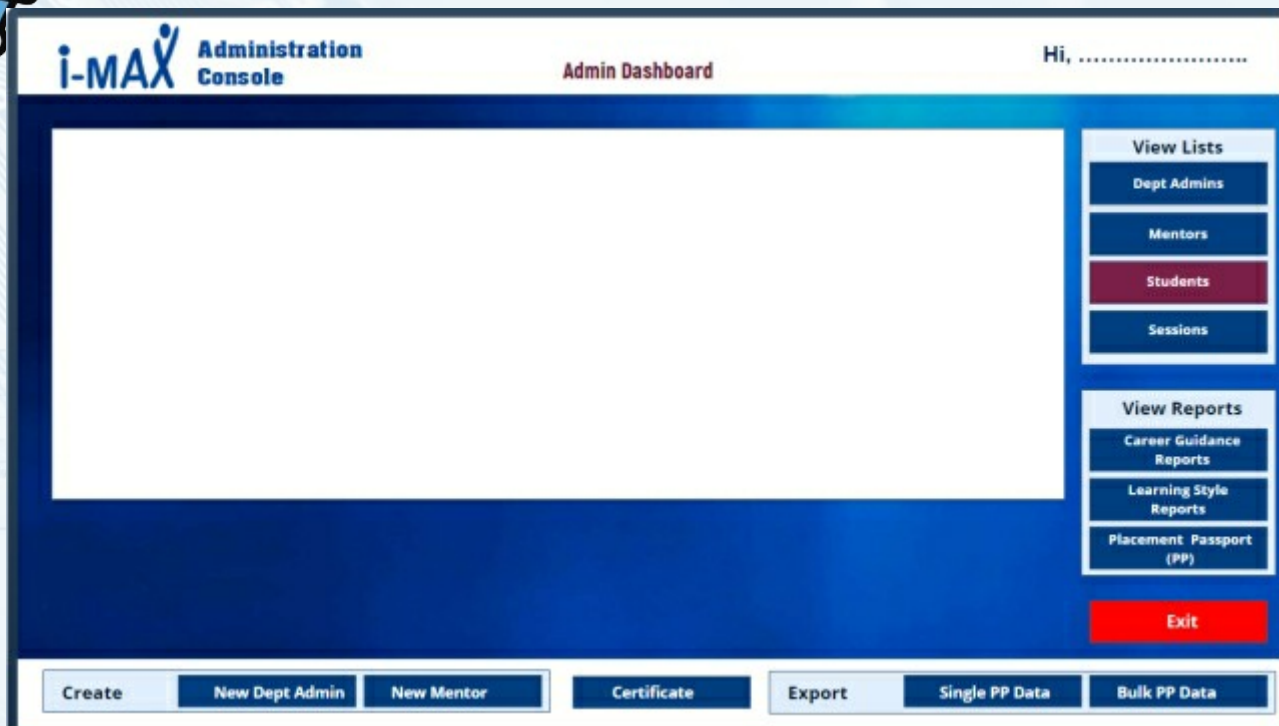
**Personal Feedback on Critical Thinking and Extempore Speaking using the Communication Simulator:** i-Max has world's first and only extempore speaking (critical thinking) simulator. It has the rare feature of capturing the communication short comings and link them to the lessons.

**Personal Placement Passport for Textile Technology:** 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.

i-Max Placement Passport	
Name	_____
Registration	_____
Interview Date	_____
Interview Time	_____
Interview Topic	_____
Interview Results	_____
Interview Feedback	_____
Signature	_____
Date	_____

## 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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