

Lumens School

Playgroup to std. 12 CBSE



Unique and Career-focussed Offering for Grade 11

Science Stream

Lumens School

Playgroup to std. 12 CBSE



Lumens – Unique Offering

- Quadseek teaching methodology with practical learning clears concepts.
- Excellent Faculty who is experienced in coaching for JEE/NEET
- No wasting time running between School and coaching classes
- To create genuine competition amongst students of schools across India by open advertising chapter-wise and full syllabus online exams.
- Time for self-study and practice- We will complete all teaching for CBSE board as well as JEE/NEET from 8.30am to 2.30pm from Monday to Friday.
- Faculty Contact Class (FCC) – Practice and doubt solving- two hours everyday after school by the same faculty who teach in school. If children prefer self-study and can give tests without coming to school, FCC, they may study at home.
- Concise and thoroughly researched notes saves time for students
- Children remain safe in school environment, away from phone and other distractions.
- Regular sports during school hours to boost mental health, thereby improving concentration and overall well being. Canteen provides three nutritious meals to provide them the energy required for studies.



Subjects Offered

- English Core
- Physics
- Chemistry
- Mathematics/Biology
- Information Technology/Psychology



Reality of Coaching Classes

- Coaching centres trap students by offering minimum 30% discount on test. Test is purposely kept very tough. Parents are told that their child has done well and hence he/she is offered discount while the child is made to feel that he/she has lot to learn. Parents are told to pay within a couple of days to avail discount.
- Fees for two years are collected over first four months, 1st Month - 50%, 2nd month-25% and so on. Once fees are collected, they are non-refundable.
- Until the fees are collected, picture is very rosy. Students are told that they need to come only for 3 days a week and very simple topics are covered. Once fees come in, number of days increase and syllabus is rushed through and students cannot cope up.
- They indulge in false marketing, advertising performance of students who are not from their centres.

MYTH v/s REALITY

- **Myth** : Coaching centers have good study material.
- **Reality**: All coaching centers use same study material with little and insignificant difference. It is all available openly.
- All coaching centers provide a lot of books, test series and notes but too much material can be overwhelming, leading stress and failure rather than improvement.



MYTH v/s REALITY

- **Myth** : Coaching centers provide good competition
- **Reality**: Competition is unreal and often ends up demotivating students.

Competition is not real. Exams at coaching institutes are given on benches with 3 to 4 students on a bench where children are allowed to copy. Online exams have earlier students logged in and hence is easier to copy. Parents remain in dark until end. Sincere students feel demotivated thinking they are left behind in the race.

Students who keep improving their own attempt over two years are the ones who generally score well. It is more about improving your own attempt rather than competition

MYTH v/s REALITY

- **Myth** : 12th Board exam practice and syllabus is covered by Coaching classes
- **Reality**: Students are not given any practice for board exams in coaching classes.
- 75% minimum is required in CBSE 12th boards for JEE. Current year papers were tough for students because CBSE board pattern has changed.
- Students are doing well neither in board exams, nor in JEE/NEET and hence are left with very few options.

MYTH v/s REALITY

- **Myth** : Coaching classes provide one to one mentorship and doubt solving classes
- **Reality:** A large percentage of children start dropping out because they can't cope up. If child doesn't attend classes, child will be called for counselling as a process but coaching pattern continues. Parent will keep getting calls from different people until they say that child is not interested.
- There is frequent rolling of teachers. Hence child gets confused.
- Children tend to wander outside the classes and parents are unaware
- There are no specific doubt solving sessions. Students have to wait for faculty after classes.

MYTH v/s REALITY

- **Myth** : Different brands of coaching classes have different owners
- **Reality**: Different brands often have the same set of owners and same set of investors. For e.g, one of the largest brands closed down and another of their brand is telling students that they have no relation with that brand. There is a rift between major shareholders who are looking for exit.
- They indulge in influential marketing with t-shirts, bags, etc. carrying names of the brand to make parents feel that everyone is going for the same brand.



SCIENCE (PCM)



What is JEE?

JEE Main- Paper 1 www.jeemain.nic.in Time: 3 Hours Timing : Multiple Dates and Slots Mode: Computer Based	Maths Physics Chemistry Total Questions	25 Questions 25 Questions 25 Questions 75 Questions	100 Marks 100 Marks 100 Marks	Forms Out: Sep. & Feb. Last Date: Sep. & Mar. Test: January & April Negative Marking: +4/ -1 Total Marks: 300 Forms Available: Online
JEE Main- Paper 2 www.jeemain.nic.in Time: 3 Hours Timing : NA Mode: Computer based & Pen & Paper for Drawing	Maths Aptitude Test Drawing Test Total Questions	30 Questions 50 Questions 02 Questions 82 Questions	120 Marks 200 Marks 70 Marks	Forms Out: Sep. & Feb. Last Date: Sep. & Mar. Test: January & April Negative Marking: +4/ -1 Total Marks: 390 Forms Available: Online
JEE Advanced- Paper 1 / 2 www.jeeadv.ac.in Time: 3 Hours Timing : Multiple Dates and Slots Mode: Computer Based Same pattern for both Paper 1 & 2	Maths Physics Chemistry Total	18 Questions 18 Questions 18 Questions 54 Questions	62 Marks 62 Marks 62 Marks 186 Marks	Form Out: JEE Mains Results Last Date: Open For About 10 Days Test Date: May/June Negative Mark.: Variable Forms Available: Online Eligibility: Top 224000 Rank in JEE-Main



What is JEE?

- **JEE Main:**

- This is the first stage and serves as a qualifying exam for JEE Advanced.
- It's a computer-based test (CBT).
- It covers Physics, Chemistry, and Mathematics.
- It consists of multiple-choice questions (MCQs) and numerical value questions.
- It also gives entry to NITs, IIITs and other government funded technical institutions.

- **JEE Advanced:**

- This is the second stage, and only those who qualify in JEE Main are eligible to take it.
- It's also a CBT.
- It also covers Physics, Chemistry, and Mathematics, but at a more advanced level.
- It is designed to test the conceptual clarity and problem-solving abilities of the candidates.
- This exam is the only entry way to the IIT's.



MYTH v/s REALITY

- **Myth** : Career options with science stream is only limited to IIT and MBBS.
- **Reality:**
- JEE mains are applicable in all engineering courses and most other engineering colleges in India and across the world.
- NEET marks are applicable in various courses like BAMS, BHMS, BUMS, BVSC etc.



VIT-EEE (VIT-Vellore) www.vit.ac.in Time: 2.5 Hours Timing : 900-1130, 1230-1500, 1600-1830 Hrs Mode: Computer Based	Physics Chemistry Maths/Bio English Total Questions	40 Questions 40 Questions 40 Questions 05 Questions 125 Questions	40 Marks 40 Marks 40 Marks 05 Marks	Form Out: Jan./ Feb Last Date: Feb Test Date: May Negative Marking: +1/ 0 Total Marks: 125 Forms Available: Online
SIT-EEE (Symbiosis) www.set-test.org Time: 2.5 Hours Timing : 1430-1700 Hrs. Mode: Computer Based	Physics Chemistry Maths Total Questions	25 Questions 25 Questions 50 Questions 100 Questions	50 Marks 50 Marks 100 Marks	Form Out: Jan/Feb Last Date: April Test Date: May Negative Marking: +2/0 Total Marks: 200 Forms Available: Online
SRM-JEEE (SRM-Chennai) www.srmuniv.ac.in Time: 2.5 Hours Timing : NA Mode: Computer Based	Physics Chemistry Maths /Biology (for Health Science) Total Questions	35 Questions 35 Questions 35 Questions 105 Questions	105 Marks 105 Marks 105 Marks	Form Out: Jan./Feb. Last Date: March Test Date: April Negative Mark.: PCM+3/0 Total Marks: 315 Forms Available: Online
NPAT (Narsee Monjee) www.npat.in Time: 2 Hours Timing : 1000-1200 Hrs Mode: Computer Based	English Language Quantitative & Numerical Reasoning Total Questions	40 Questions 40 Questions 40 Questions 120 Questions	40 Marks 40 Marks 40 Marks	Form Out: Jan. Last Date: April Test Date: May Negative Mark.: Nil Total Marks: 120 Forms Available: Online

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MHT-CET www.dtemaharashtra.gov.in Time: 3 Hours Timing : NA Mode: Pen & Paper	Paper-1 Maths Paper-2 Physics Paper-2 Chemistry Total Questions	50 Questions 50 Questions 50 Questions 150 Questions	100 Marks 50 Marks 50 Marks	Form Out: Jan. Last Date: March Test Date: May Negative Mark.: Nil Total Marks: 200 Forms Available: Online
KIIT-EE (KIIT-Bhubaneswar) www.kiit.ac.in Time: 3 Hours Timing : NA Mode: Computer Based	Maths Physics Chemistry Total Questions	40 Questions 40 Questions 40 Questions 120 Questions	40 Marks 40 Marks 40 Marks	Form Out: Nov. Last Date: March Test Date: April Negative Mark.: Nil Total Marks: 120 Forms Available: Online
GUJCET (Gujarat Common Entrance Test) Time : 3 Hours Timing : NA Mode: Pen & Paper	<ul style="list-style-type: none"> Paper 1: Physics and Chemistry (80 questions, 120 minutes) Paper 2: Mathematics/Biology (40 questions, 60 minutes) 		80 Marks 40 Marks 120 Marks	Form Out: Mid Dec Form Date: Mid Feb. Test Date: Mid April Negative Marking : 0.25 Total Marks: 120 Forms Available: Online

Comparison of Question Levels – CBSE v/s JEE

- **CBSE Board Level:**

Question:- *A convex lens of focal length 20 cm is used to form an image of an object placed 30 cm away from it. Calculate the position and nature of the image formed.*

- **JEE Level (Extended Concept & Application-Based):**

Question:- *A convex lens of focal length 20 cm is placed 30 cm away from an object. A concave mirror of focal length 15 cm is placed 50 cm behind the lens. Find the final position of the image formed by the mirror.*

This question extends the board syllabus concept by integrating multiple optical elements, requiring a deeper conceptual understanding and multi-step problem-solving

Preparation Key Points

- **Extensive Syllabus:**

- Syllabus is vast but entirely based on Grade 11 and 12 syllabus concepts.

- **Conceptual Depth:**

- JEE exams emphasize conceptual understanding rather than rote memorization.
- School is supposed to cover concepts of NCERT and coaching classes are expected to cater to application of concepts and speed of problem solving. Both these do not work in sync which causes difficulty and undue pressure for students.

- **Maintaining Consistency:**

- Consistent study over a long period is essential and maintaining that level of consistency can be difficult.

- **Choosing the right study material:**

- With the sheer amount of study material available, it can be hard to know what is the best resources to use.
- With vast amount of material available, time gets wasted

Why Lumens?

- Teaching faculty with experience in appearing and teaching Board and JEE successfully
- We understand importance of time and stress management and have planned schedule accordingly
- Same faculty will prepare for board and JEE helping student clear concepts and JEE preparation better
- Unlike classes, main faculty will help in problem solving and doubts during practice
- Board and JEE syllabus will be go together spread over years so conceptual understanding and JEE preparation will go together
- Regular revision and mock tests planned well to help student prepare for both
- We provide a curated collection of study materials designed to help students excel in these exams

Top International Universities Accepting JEE

Singapore

- **National University of Singapore (NUS)** – JEE scores considered alongside other qualifications.
- **Nanyang Technological University (NTU)** – Accepts JEE scores, especially for engineering programs.

United Kingdom

- **Queen's University Belfast (QUB)** – Considers JEE (Main/Advanced) alongside Std. XII results.
- **Other Universities:** University of Stirling, Glasgow Caledonian University, University of Bristol.

Germany

- **Technical Universities** – TU Berlin, TU Munich, RWTH Aachen are top choices for engineering aspirants.



Graduation Courses Other Than Engineering with PCM

- **B.Sc. (Physics, Chemistry, Mathematics, Data Science, Statistics)**
- **Integrated M.Sc. in IITs and IISERs**
- **BCA (Bachelor of Computer Applications)**
- **Actuarial Science**
- **Architecture (B. Arch through JEE Paper 2/NATA)**
- **Commercial Pilot Training**
- **NDA (National Defense Academy)**
- **Other technical and analytical fields**



SCIENCE (PCB)



Introduction

‘Our world is built on biology and once we begin to understand it, it then becomes a technology’



Topics covered in Biology in NEET

- 1) DIVERSITY IN THE REAL WORLD
- 2) STRUCTURAL ORGANISATION IN ANIMALS AND PLANTS
- 3) CELL STRUCTURE AND FUNCTION
- 4) PLANT PHYSIOLOGY
- 5) HUMAN PHYSIOLOGY
- 6) REPRODUCTION
- 7) GENETICS AND EVOLUTION
- 8) REPRODUCTION
- 9) GENETICS AND EVOLUTION
- 10) BIOLOGY AND HUMAN WELFARE
- 11) BIOTECHNOLOGY AND ITS APPLICATIONS
- 12) ECOLOGY AND ENVIRONMENT



Latest updated NEET exam pattern

2025: NEET Exam Pattern 2025 Overview

Exam Name	National Eligibility cum Entrance Test (NEET)
Conducting Body	National Testing Agency
Mode of the examination	Pen-Paper Mode
Duration of the exam	3 hours (Updated)
Total Questions	180 questions from NEET 2025 (Before 200 questions)
Total Marks	720 Marks
Question Type	MCQs
Marking Scheme	<ul style="list-style-type: none">• +4 marks for each correct answer• -1 for each incorrect answer
NEET Languages	13 (English, Hindi, Assamese, Bengali, Gujarati, Marathi, Tamil, Telugu, Oriya, Malayalam, Kannada, Punjabi and Urdu)
Official website	neet.nta.nic.in

Our Plan: Mastering NEET & Boards Together

- **Dual Approach in Teaching** – Each topic is discussed from **both NEET & Board** perspectives.
 - **Exam-Oriented Training**
 - **School Exams** – Prepare students for board exams.
 - **Evening Tests** – Focused NEET entrance exam practice.
- **Comprehensive Preparation** – Covers both **NEET & Board Exams** within school hours, plus **evening Faculty Contact** classes for doubt solving and practice (5 times a week).
 - **Aligned Syllabus** – Same topics for **NEET & Boards**, but with different focus:
 - **NEET** – Core concepts & factual understanding (**MCQs**).
 - **Boards** – Broader topic comprehension (**MCQs & Subjective questions**).
- **High-Quality Study Material**
 - **School Notes & NCERTs** – Strong foundation for all subjects.
 - **NEET MCQ Sheets & OMR Practice** – Simulate real exam conditions with accurate **timing & marking**.

Goal: Best Results with Structured & Effective Preparation!



Opportunity with PCB, other than MBBS

Besides MBBS, a PCB (Physics, Chemistry, Biology) background opens doors to various other career paths, including fields like **Biotechnology, Forensic Science, Pharmacy, Veterinary Science, Research and more.**

- Here's a breakdown of some alternative career options:



RESEARCH SCIENTIST

Degree	PAYSCALE	Top Colleges	JOB ROLES
Bachelor of Science in biology, Zoology ,Botany or life science followed by M.Sc.and Ph.D.	During Ph.D. 45,000 pm stipend For Scientist B -Level 10 46,000-1,77,500 pm Scientist C,D,E Level 11,12,13 1,23000 - 2,15,000 pm	IISc. Bangalore TIFR ,Mumbai BARC ISRO IIT Overseas College Harvard , UCAS, Max Plank Society, MIT	Conducts experiments and studies in various fields like genetics, microbiology, Virology, Ecology,and molecular biology to expand knowledge and develop new products or processes.



BIOTECHNOLOGY

Degree	PAYSCALE	Top Colleges	JOB ROLES
Bachelor's Degree in Biotechnology (B.Tech , B.Sc.) or Biology, or related field and Master's in Biotech or Ph.D	EARLY CAREER 4LPA -7 LPA SENIOR 7 -15LPA TOP Recruiters BIOCON,SYNGENE, RELIANCE LIFE SCIENCE, Argo companies	IIT IISC NIT Delhi Univerity Christ University Pune University SNU ,Delhi BITs Pilani Shiv Nadar University	Works with living organisms and bioprocesses in industries such as pharmaceuticals agriculture, and environmental conservation to develop products and technologies



PHARMACOLOGY

Degree	PAYSCALE	Top Colleges	JOB ROLES
Bachelor in Pharmacy or D.PHARMA, M.PHARMA	EARLY CAREER : 4- 7LPA SENIOR : 8-12 LPA	NIPER, Hyderabad Jamia hamdard BITS Pilani ICT,Mumbai	Wholesale pharmacy Community pharmacy Industrial pharmacy Quality control and Assurance Drug discovery and research Education



AGRICULTURE

Degree

PAYSCALE

Top Colleges

JOB ROLES

Bachelor of Science
in Agriculture,
Followed by MSC.
AND PhD.

EARLY CAREER : 4-
7LPA
SENIOR : 8-12 LPA

ICAR, New Delhi
NDRI,
Punjab
Agricultural
University
BHU, Varanasi

Field officer
Plantation manager
Soil Scientist
Plant Breeder
Plant Pathology
IFS



FOOD SCIENCE & TECHNOLOGY

Degree	PAYSCALE	Top Colleges	JOB ROLES
BSc. Food Technology, or B. Tech in Food Technology followed by M.Sc or M.Tech	Entry level 3LPA -5LPA Senior 8-12 LPA TOP RECRUITER ITC, Nestle, PepsiCo, Dabur, FSSAI	IIT, Kharagpur IIT ,Guwahati NIT ,Rourkela Anna University NIFTEM	Quality Manager Production Manager Food preservation and packaging, Food safety officer, Food Chemistry and Nutrition



HOSPITAL ADMINISTRATION

Degree	PAYSCALE	Top Colleges	JOB ROLES
Bachelor in Hospital administration or PGDM hospital management followed by Master in Public health or MBA in Health care management.	4LPA - 14 LPA	TISS ,Mumbai IHMR, Jaipur IIM Bodh Gaya Chandigarh University	Coordinate Medical, Nursing, and support staff to ensure patient care and safety



ENVIRONMENTAL SCIENCE

Degree

Bachelor in Life
Science or Honours
with Environment
Science as
Speciality, Master
in Environment
Science and PhD

PAYSCALE

4LPA - 14 LPA

Top Colleges

IISc Bangalore
IIT, Bombay
BHU
CUSAT
BVIEER
JNU
WII ,Dehradun
ICMR NIREH,
Bhopal

JOB ROLES

Wildlife
Conservationists,
Waste Control and
Management Officials,
Eco-tourism
Specialists, Pollution
control researchers
and officers



Some Other Options

YOGA AND NATUROPATHY

BA or B Sc in Yoga and Naturopathy

NURSING

Bachelor/ Masters of Nursing

CINICAL PSYCHOLOGY

BSc/ MSc with Psychology

VETENARIAN

Bachelor of Veterinary Science.



Career Guidance

Inhouse and continuous counselling for career options

Email for further queries or appointment
info@lumenseducation.net

For more details
please scan



www.lumenseducation.net **Pre-schools:** Gunjan | Chala | Daman | Tukwada

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