



**B.TECH.
PROGRAMMES**

Think**BIG**

IMPORTANT INFORMATION

Communication

All communications will be through candidate's e-mail and mobile number. Provide valid e-mail ID and mobile number.

Examination

Candidate has to appear in online examination only.

LPUNEST-2025 Kit consists of the following two parts and must be read together.

- | | | |
|-------------------------|---|------------------|
| 1- LPUNEST-2025 Booklet | } | LPUNEST-2025 KIT |
| 2 - Information Booklet | | |

Cost of LPUNEST-2025 Kit

For Offline Application - ₹ 1000/-

For Online Application

with soft copy - ₹ 1000/-

with printed copy - ₹ 1500/-

If the information available on the University website, under the head Admissions i.e. <http://www.lpu.in/admission/> or Prospectus 2025, differs from the information provided in the LPUNEST-2025 KIT (LPUNEST-2025 Booklet and Information Booklet), then the information available on the University website (under the head Admissions) or Prospectus 2025 and subsequent corrigenda, if any, will prevail.

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1. About LPU

Lovely Professional University (LPU) is a multi-disciplinary institution recognized by the University Grants Commission (UGC), known for its excellence in academics, research, and overall development of students. With a sprawling 600-acre campus, LPU is home to students from all 28 Indian states and over 50 countries, fostering a rich cultural diversity and global outlook. The University holds a stellar reputation, receiving the prestigious **A++ grade with a 3.68 score on a 4-point scale from NAAC (National Assessment and Accreditation Council)**. It is **ranked 27th in the NIRF Rankings 2024** by the Ministry of Education, Government of India, among all public and private universities, and **25th in the Times Higher Education World University Rankings 2024** among the top universities in India. Notably, LPU is also the first private university in India to receive ICAR accreditation for its Agriculture programs, further solidifying its position as a leader in education.

LPU's commitment to academic excellence is evident in its innovative, industry-oriented curricula designed to prepare students for global challenges. With **tie-ups** with over **300 international universities** and collaborations with leading global companies like **Amazon, Google, and Cisco**, students gain hands-on experience through internships, live projects, and exchange programs. The University's placement record is unmatched, with **over 2,100 top recruiters** visiting annually, offering students lucrative career opportunities across diverse fields.

The campus is a self-contained world that offers a vibrant and dynamic student experience. Equipped with state-of-the-art facilities, including an in-campus hospital, shopping mall, sports complexes with Olympic-standard amenities, banks, and postal services, it ensures that students have access to all they need for a holistic and comfortable educational journey. Iconic figures like **Prime Minister Narendra Modi and His Holiness the Dalai Lama** have visited LPU, further emphasizing its stature as a hub for innovation, inspiration, and excellence.

LPU ensures that financial constraints do not hinder the aspirations of talented students. Through programs like LPUNEST, deserving students can avail of scholarships of up to 100%, making quality education accessible to all.

Focused on fostering leaders of tomorrow, LPU goes beyond academics, emphasizing skill development, innovation, and holistic growth. Its vibrant community, excellent faculty, and dedication to nurturing talent make it a preferred destination for students aspiring to achieve their dreams. At LPU, students don't just prepare for a career—they prepare for life.

2. About LPUNEST-2025

Lovely Professional University is conducting National Entrance and Scholarship Exam (LPUNEST-2025) for 150+ programmes.

This booklet has details about LPUNEST B.Tech. programmes. Students studying in 12th class can apply for LPUNEST-2025. Since its inception in 2009, more than 75,000 students are appearing in this exam (LPUNEST) every year. The LPUNEST-2025 offers convenient choices to candidates:

- Remotely Proctored Online Exam
- Exam Centre Based Exam

To know exact dates, visit university website: www.lpu.in

This exam will have the following advantages:

2.1 Entrance Exam: LPUNEST-2025 will provide a gateway to all engineering programmes in LPU and will act as Entrance exam for admission in Engineering Programmes at LPU. For details, refer point no. 5 "Eligibility and Selection Criteria".

2.2 Scholarship: LPU envisages to usher an era of accessible and affordable quality higher education to the youth of our country. On the basis of LPUNEST-2025 score, the university intends to award extensive Scholarship of upto ₹ 9.52 Lac per student. For details of scholarship, please refer point no. 7 "Scholarship and Financial Aid"

3. Schedule of LPUNEST

To know the Important dates for LPUNEST-2025, refer university website www.lpu.in.

4. B.Tech. Programmes offered

4.1 Regular Programme (4 years)

• B.Tech.

Streams/ Majors offered in Engineering:

• **Computer Science and Engineering (CSE)**

Specializations/ Tracks/ Minors offered in CSE:

- Data Science with ML
 - DevOps (Software Development and IT Operations)
 - AI and Data Engineering
 - Software Product Engineering
 - Machine Learning and Data Analytics
 - Generative Artificial Intelligence
 - User Experience (UX) / User Interface (UI)
 - Big Data Analytics
 - Cloud Computing
 - Artificial Intelligence and Machine Learning
 - Data Science and Data Engineering
 - Cyber Security and Block Chain
 - Full Stack Web Development
 - Internet of Things
 - Software of Methodologies and Testing

• **Electronics and Communication Engineering (ECE)**

Specializations/ Tracks/ Minors offered in ECE:

- Data Science
- Embedded Systems
- Energy Management
- Full Stack Web Development
- Internet of things (IOT)

- Machine Learning for Healthcare
- Robotics and Automation
- Smart Satellite System Design
- Space Science
- Wireless Communication
- Engineering and Applications
- VLSI Design
- **Information Technology (IT)**
Specializations/ Tracks/ Minors offered in IT:
 - Cloud Computing
 - Cyber Security
 - Data Science
 - Full Web Stack Development
 - Internet of things (IOT)
 - Machine Learning
 - Software Methodologies and Testing
- **Mechanical Engineering (ME)**
Specializations/ Tracks/ Minors offered in ME:
 - Design
 - Electric Vehicle Technology
 - Heating Ventilation and Air Conditioning (HVAC)
 - Robotics
 - Six Sigma
 - Smart Manufacturing
- **ME - Mechatronics**
Specializations/ Tracks/ Minors offered in ME - Mechatronics:
 - Design
 - Internet of Things (IOT)
 - Robotics
 - Electric Vehicle
- **Aerospace Engineering**
Specializations/ Tracks/ Minors offered in Aerospace Engineering:
 - Aerodynamics and Drone Technology
 - Aircraft Maintenance
 - Computational Engineering
 - Design
 - Space Engineering
- **Automobile Engineering (AE)**
Specializations/ Tracks/ Minors offered in Automobile Engineering:
 - Design
 - Electric Vehicles
 - Heating Ventilation and Air Conditioning (HVAC)
 - Robotics
- Six Sigma
- Smart Manufacturing
- **Robotics & Automation**
Specializations/ Tracks/ Minors offered in Robotics & Automation:
 - Data Science
 - Embedded Systems
 - Full Stack Software Development
 - Industry 4.0
 - Internet of Things (IOT)
 - Medical Robotics
 - UAV's and Drone Technology
- **Civil Engineering (CE)**
Specializations/ Tracks/ Minors offered in Civil Engineering:
 - Construction 4.0
 - Engineering Approaches to Environment and Water Technologies
 - Smart and Sustainable Infrastructure
- **Electrical Engineering (EE)**
Specializations/ Tracks/ Minors offered in Electrical Engineering:
 - Data Science
 - Embedded Systems
 - Energy Management
 - Full Stack Web Development
 - Instrumentation Technologies
 - Internet of Things (IOT)
 - Power Systems
 - Renewable Energy
 - Robotics and Automation
 - Smart Grid
- **Electrical and Electronics Engineering (EEE)**
Specializations/ Tracks/ Minors offered in Electrical and Electronics Engineering:
 - Cyber Security
 - Data Science
 - Embedded Systems
 - Energy Management
 - Full Stack Web Development
 - Internet of Things (IOT)
 - Machine Learning for Healthcare
 - Robotics and Automation
 - Power Systems
 - VLSI Design

- **Biotechnology (BT)**

Specializations/ Tracks/ Minors offered in Biotechnology:

- Human Health and Welfare
- Food Biotechnology
- Pharmaceutical Biotechnology

- **Food Technology**

- Data Science
- Food Safety and Quality
- Machine Learning for Healthcare
- Process Engineering

- **Biomedical Engineering**

Specializations/ Tracks/ Minors offered in Biomedical Engineering:

- Advanced Biomedical Engineering
- Biomedical Engineering in Hospitals

- **Chemical Engineering (CHE)**

Specializations/ Tracks/ Minors offered in Chemical Engineering:

- Computation Process Engineering
- Energy
- Polymer Technology
- Upstream

4.2 Hons. Programmes with Industry Collaboration (4 years)

LPU offers premium Hons. programmes with industry immersion and certifications for students to learn, research and innovate. Mentors from industry guide on live projects and assist in incubating ideas to life. To add to, these students are offered an exclusive international exchange option. Following are the exclusive features offered in the Programme:

- Up to 40% specialization courses offered in tie-up with Industry and taught by Industry experts and/or foreign faculty.
- Professional/ Industry certifications offered as a part of the curriculum in each specialization.
- Seed money up to ₹ 5 lacs for startups /Entrepreneurial Venture.
- Participation in Bootcamps/ Datathons.
- Industry mentor are associated with students for professional guidance.

Programmes offered:

- B.Tech. (Hons.) (Computer Science and Engg. - Cyber Security and Block Chain) in tie up with Comptia
- B.Tech. (Hons.) (Computer Science and Engg. - Data Science & Data Engineering) in tie up with Transorg Analytics
- B.Tech. (Hons.) (Computer Science and Engg. - Full Stack Software Development) in tie up with GeeksforGeeks

For more details, refer university website www.lpu.in

4.3 Industry Collaborative Programmes (4 years)

Bridging the gap from campus to corporate and upskilling minds with the new age technologies, LPU offers Industry collaborative Programme to enable the students to keep pace with changing technological advances. Following are the exclusive features of the programmes:

- Real Life Industry Projects
- Personalised Mentorship & Doubt-Solving Support
- Specialization Certification by Industry
- Industry organized competitions/ Bootcamps/ Hackathons.

Programmes offered:

- B.Tech. (CSE – Generative Artificial Engineering) (in tie up with Microsoft)
- B.Tech. (CSE - Data Science with ML) (in tie up with UPGRAD)
- B.Tech. [CSE - DevOps (Software Development and IT Operations)] (in tie up with Xebia)
- B.Tech. (CSE - User Experience (UX) / User Interface (UI)) (in tie up with IMAGINXP)
- B.Tech. (CSE - Big Data Analytics) (in tie up with IBM)
- B.Tech. (CSE - Cloud Computing) (in tie up with Google Cloud Platform)
- B.Tech. (CSE - Internet of Things) (in tie up with Intel)
- B.Tech. (CSE - Computer Science and Business Systems) (in tie up with TCS)

For more details, refer university website www.lpu.in

4.4 Work Integrated Programmes

- B.Tech. (Computer Science and Engg. - Software Product Engineering) in tie up with KALVIUM
- B.Tech. (Computer Science Engineering - AI and Data Engineering) in tie up with FutureSense
- B.Tech. (Computer Science Engineering - Machine Intelligence & Decision Analytics) in tie up with Quantiphi

4.5 International Credit Transfer Option Programmes

An engineering programme that earns you an international degree. An opportunity to stand out by completing the last leg with an international university abroad on their campus.

- B.Tech. (Electronics and Communication Engineering) [2+2 with International Credit Transfer Option]
- B.Tech. (Computer Science and Engineering) [2+2 with International Credit Transfer Option]
- B.Tech. (Mechanical Engineering) [2+2 with International Credit Transfer Option]

- B.Tech. (ME - Mechatronics) [2+2 with International Credit Transfer Option]
- B.Tech. (Civil Engineering) [2+2 with International Credit Transfer Option]
- B.Tech. (Biotechnology) [2+2 with International Credit Transfer Option]
- B. Tech. (Automobile Engineering) [2+2 with International Credit Transfer Option]
- B.Tech. (Semiconductor Technology and VLSI Design) [3+1 with International Credit Transfer Option]

4.6 Open Minors for Engineering Programmes

Nurturing holistic development of students and providing a new vision for crafting a sustainable solution, open minor plays a pivotal role. As an engineering graduate can take up courses in management, fashion design, journalism, agriculture etc. to acquire multinational proficiency. Students are given an option to choose from a plethora of open minors such as:

- Android Application Development
- Banking and Financial Services
- DevOps
- Digital Marketing
- Digital Transformation in Tourism and Hospitality
- Economics
- English
- Fashion Basics
- Family Business Management
- Financial Markets
- Forensic and Criminal Investigation
- French
- Fundamentals of Finance
- Fundamentals of Urban Planning
- Gaming
- General Studies
- Geography
- German
- Graphics
- History
- Human Resource Management
- Indian Economy and Science
- Informatica
- Intellectual Property and Cyber Laws
- Interior Design
- International Business
- Management Fundamentals
- Marketing Management

- Mathematics for Programmer
- Mass Media
- Multimedia and Web Development
- My New Venture
- Operations
- Political Science
- Professional Enhancement
- Psychology
- Psychology (UPSC)
- Public Administration
- Research
- Robotic Process Automation
- Sociology
- Spanish
- Study Abroad
- User Interface and Experience Design
- Vacation planning and Management

A student based on his zest, picks up the minor and fulfills the excitement of learning beyond books which is purely the choice of the student.

Note: Minors as mentioned above may be offered subject to minimum number of students and feasibility. For details refer university website (www.lpu.in).

4.7. Career Pathways

As each individual is unique and approaches life in a different manner, so we allow each student to choose his/ her own career pathway based on an individual interest to prepare for life :

Corporate Jobs : Multiple options or pathways designed according to the competency of the students to prepare them for specific sector/ job profiles as per needs of industry.

Government Jobs : To prepare students for civil services, public sector undertakings and/ or jobs in Government sector.

Higher Studies : To prepare students for various national and international entrance tests for admission into higher degree.

Research : Students are exposed to various research projects and dissertations for industry and higher studies.

Entrepreneurship : Handholding through Startup School and Entrepreneurship-

To Set up new ventures,

Improve and modernize existing business,

Engage in Social Entrepreneurship/ NGO.

Masters Abroad : Pathway prepares the undergraduate to clear entrance examinations such as GRE, GMAT, IELTS, TOEFL, etc. The student is provided with all kinds of counseling help to make a judicious decision of study abroad destination. The pathway also helps the student to know about opportunities and scholarships available in different countries.

5. Eligibility and Selection Criteria

5.1. Nationality

Only Indian Nationals are eligible to apply for LPUNEST-2025

5.2. Qualifying Examination

Candidates appearing for LPUNEST-2025 should have either completed or shall be appearing in final examination of 10+2 in 2025 from Central Board of Secondary Education (CBSE, New Delhi) or The Council for Indian School Certificate Examination (CISCE, New Delhi) or State Board or any other Council, Institution, college etc. declared recognised by Council of Boards of School Education (COBSE), New Delhi or any other concerned apex body as applicable.

5.3. Eligibility Criteria in the Qualifying Examination

For admission in all B.Tech. programmes (Including International Credit Transfer option) and B.Tech. (Hons.) CSE {except B.Tech. (CSE - Decision Science and Machine Learning), B.Tech. (CSE-Software Product Engineering)}, and B.Tech. (CSE- AI and Data Engineering), candidate should score 60% aggregate marks in 10+2 or equivalent with (Physics, Mathematics and English), subject to qualifying LPUNEST-2025.

For admission in B.Tech. (CSE - Machine Intelligence and Data Analytics) programme, candidate should score 60% aggregate marks in 10+2 with (English, Physics & Mathematics) or equivalent, subject to qualifying LPUNEST- 2025 and Interview by Quantiphi.

For admission in B.Tech. (CSE- Software Product Engineering) programme, candidate should score 60% aggregate marks in 10th and 10+2 with (Physics, Mathematics and English) or equivalent, subject to qualifying LPUNEST/ KQ Test and Interview.

For admission in B.Tech. (CSE- AI and Data Engineering), candidate should score 60% aggregate marks in 10+2 with (Physics, Mathematics and English) subject to qualifying LPUNEST-2025 and Interview by Futureense Technologies.

Note: CUET/ JEE (Main)/ NEET may be considered for eligibility purpose from Phase-I onwards, if offered.

***For B.Tech. Biotechnology (BT), Food Technology and Biomedical Engineering (BE)**

Subjects considered: Physics, Chemistry, English & Maths or Biology or Biotechnology; other things remaining same as above.

***For B.Tech. Chemical, Civil and Mechanical Engineering**

Subjects considered: Physics, Chemistry, English & Maths; other things remaining same as above.

5.4. Selection Criteria

Merit in LPUNEST, subject to fulfilling eligibility criteria.

6. Programme Fee

The programme fee is mentioned below in Table 1:-

Table 1	
Programmes	Applicable Fee
B.Tech. - all branches / B.Tech. [2+2 with international credit transfer option]/ B.Tech. - (CSE/ IT)/ B.Tech. (CSE) [2+2 with International Credit Transfer option]/ B.Tech. (Semiconductor Technology and VLSI Design) [3+1 with International Credit Transfer Option]	₹ 1,40,000/- per semester

B.Tech. (Robotics and Automation)/ B.Tech. (CSE- Data Science with ML)/ B.Tech. (CSE - DevOps (Software Development and IT Operations)/ B.Tech. (CSE- Cloud Computing)/ B.Tech. (CSE - User Experience (UX)/ User Interface (UI)/ B.Tech. (CSE - Big Data Analytics)/ B.Tech. (CSE – Generative Artificial Intelligence)/ B.Tech. (Machine Intelligence and Data Analytics)/ B.Tech. (CSE - Computer Science and Business System)/ B.Tech. (CSE - Internet of Things)/ B.Tech. (ECE - VLSI Design and Technology)/ B.Tech. (CSE - Artificial Intelligence and Machine Learning),	₹ 1,70,000/- per semester
B.Tech. (Hons.) (CSE- - Data Science and Data Engineering)/ B.Tech. (Hons.) (CSE- Cyber Security and Block Chain)/ B.Tech. (Hons.) (CSE- Full Stack Software Development), B.Tech. (CSE - AI and Data Engineering), B.Tech. (CSE - Software Product Engineering)	₹ 2,00,000/- per semester

The programme fee mentioned above is for Phase-I only. Subsequent phases of admission will be conducted if seats remain vacant. The programme fee details for these subsequent phases can be referred from the university website www.lpu.in

7. Scholarship and Financial Aid

7.1 Overview

- Lovely Professional University strongly believes in the fact that monetary constraints should not be an obstacle for a student to have access to quality education. So, the University extends Scholarship Scheme which is an initiative by the University to cultivate the talent of students that may be hidden due to financial constraints. Scholarship can be availed in all the Programmes of the University, ranging from Diploma to Ph.D.
- Scholarship Categories:** Scholarships are awarded to candidates based on their:
 - Eligibility Qualification (i.e. 10+2)
 - Previous Year Qualification
 - LPU's Entrance and Scholarship Exam : LPUNEST
 - Certain National Level Entrance Tests [CUET, JEE (Main), NEET]
- Scholarship Brackets:** For each category mentioned above, three brackets of Scholarship (Bracket 1, 2, 3 and 4) are defined. Each bracket has its own respective criteria which needs to be met for availing the applicable scholarship. Therefore, the students meeting the requirement of Bracket- 1 gets the highest Scholarship and those in Bracket - 2, 3 or 4 gets relatively lesser scholarship.
- Scholarship Phases:** Admissions in LPU are done in different Phases, which are bifurcations of the Admission time period. The amount of Scholarship also depends on the Phase in which the candidate takes admission in the University. **Phase-I** starts as early as **December 2024** and continues till the end of **April 2025**. The subsequent phases are conducted only if the seats in the concerned programme remain vacant. The amount of Scholarship reduces with each passing phase and no Scholarship is offered in subsequent phases (if conducted). The dates for subsequent phases (if offered) will be updated on the university website (www.lpu.in).

7.2 Details of Scholarship Brackets

Scholarship brackets for various categories are detailed below:

Table 2 {For B.Tech. - all branches / B.Tech. [2+2 with international credit transfer option], B.Tech. (Robotics and Automation)], B.Tech. (Semiconductor Technology and VLSI Design) [3+1 with International Credit Transfer Option]}				
Scholarship Criteria	Bracket-I	Bracket-II	Bracket-III	Bracket-IV
	70% of programme fee	60% of programme fee	50% of programme fee	40% of programme fee
Scholarship on the basis of percentage in Qualifying Exam/ Previous Qualification	98% or above aggregate marks in 12	95-97.99% or above aggregate marks in 12	90-94.99% aggregate marks in 12th	80-89.99% aggregate marks in 12th
Scholarship on the basis of LPUNEST	LPUNEST score more than or equal to Category A cut-off*	LPUNEST score more than or equal to Category B cut-off*	LPUNEST score more than or equal to Category C cut-off*	LPUNEST score more than or equal to Category D cut-off*
Scholarship on the basis of CUET	CUET percentile equal to or more than 90	CUET percentile equal to or more than 80 but less than 90	CUET percentile equal to or more than 70 but less than 80	-
Scholarship on the basis of JEE (Main)	JEE (Main) percentile equal to or more than 97	JEE (Main) percentile equal to or more than 95 but less than 97	JEE (Main) percentile equal to or more than 90 but less than 95	JEE (Main) percentile equal to or more than 87 but less than 90
Scholarship on the basis of NEET 2024 (For B.Tech. Biotech./ Food Tech./ BioMed. Only)	NEET National Rank 1-100000	NEET National Rank 100001-200000	NEET National Rank 200001-300000	-

*To know the tentative cut-off for various programmes and approximate number of students falling in different categories, refer university website : www.lpu.in

Table 3 B.Tech. (CSE/IT), B.Tech. (CSE) [2+2 International Credit Transfer Option]				
Scholarship Criteria	Bracket-I	Bracket-II	Bracket-III	Bracket-IV
	60% of Programme Fee	50% of Programme Fee	40% of Programme Fee	30% of Programme Fee
Scholarship on the basis of percentage in Qualifying Exam/ Previous Qualification	98% or above aggregate marks in 12	95-97.99% or above aggregate marks in 12	90-94.99% aggregate marks in 12th	80-89.99% aggregate marks in 12th
Scholarship on the basis of LPUNEST	LPUNEST score more than or equal to Category A cut-off	LPUNEST score more than or equal to Category B cut-off*	LPUNEST score more than or equal to Category C cut-off*	LPUNEST score more than or equal to Category D cut-off*
Scholarship on the basis of CUET	CUET percentile equal to or more than 90	CUET percentile equal to or more than 80 but less than 90	CUET percentile equal to or more than 70 but less than 80	-
Scholarship on the basis of JEE (Main)	JEE (Main) percentile equal to or more than 97	JEE (Main) percentile equal to or more than 95 but less than 97	JEE (Main) percentile equal to or more than 90 but less than 95	JEE (Main) percentile equal to or more than 87 but less than 90

*To know the tentative cut-off for various programmes and approximate number of students falling in different categories, refer university website : www.lpu.in

Table 4 {for B.Tech. (CSE - Computer Science and Business system)/ B.Tech. (CSE - Internet of Things)/ B.Tech. (CSE - Mathematics and Computing), B.Tech. (CSE- Data Science with ML)/ B.Tech. (CSE - DevOps (Software Development and IT Operations)/ B.Tech. (CSE- Cloud Computing)/ B.Tech. (CSE - User Experience (UX) / User Interface (UI)/ B.Tech. (CSE - Big Data Analytics)/ B.Tech. (CSE – Generative Artificial Intelligence) /B.Tech. (CSE - Machine Intelligence and Data Analytics)/ B.Tech. (CSE - Artificial Intelligence and Machine Learning), B.Tech. (Hons.) (CSE - Data Science and Data Engineering)/ B.Tech. (Hons.) (CSE- Cyber Security and Block Chain)/ B.Tech. (Hons.) (CSE- Full Stack Software Development)/ B.Tech. (ECE - VLSI Design and Technology)}

Scholarship Criteria	Bracket-I	Bracket-II	Bracket-III
	30% of Programme Fee	25% of Programme Fee	20% of Programme Fee
Scholarship on the basis of percentage in Qualifying Exam/Previous Qualification	95-97.99% or above aggregate marks in 12	90-94.99% aggregate marks in 12th	80-89.99% aggregate marks in 12th
Scholarship on the basis of LPUNEST	LPUNEST score more than or equal to Category A cut-off	LPUNEST score more than or equal to Category B cut-off*	LPUNEST score more than or equal to Category C cut-off*
Scholarship on the basis of CUET	CUET percentile equal to or more than 90	CUET percentile equal to or more than 80 but less than 90	CUET percentile equal to or more than 70 but less than 80
Scholarship on the basis of JEE (Main)	JEE (Main) percentile equal to or more than 97	JEE (Main) percentile equal to or more than 95 but less than 97	JEE (Main) percentile equal to or more than 90 but less than 95

*To know the tentative cut-off for various programmes and approximate number of students falling in different categories, refer university website : www.lpu.in

Table 5 {For B.Tech. (CSE – AI and Data Engineering)/ B.Tech. (CSE- Software Product Engineering)}

Scholarship Criteria	Bracket-I	Bracket-II	Bracket-III
	20% of programme fee	15% of programme fee	10% of programme fee
Scholarship on the basis of percentage in Qualifying Exam/Previous Qualification	95-97.99% or above aggregate marks in 12	90-94.99% aggregate marks in 12th	80-89.99% aggregate marks in 12th
Scholarship on the basis of LPUNEST	LPUNEST score more than or equal to Category A cut-off	LPUNEST score more than or equal to Category B cut-off*	LPUNEST score more than or equal to Category C cut-off*
Scholarship on the basis of CUET	CUET percentile equal to or more than 90	CUET percentile equal to or more than 80 but less than 90	CUET percentile equal to or more than 70 but less than 80
Scholarship on the basis of JEE (Main)	JEE (Main) percentile equal to or more than 97	JEE (Main) percentile equal to or more than 95 but less than 97	JEE (Main) percentile equal to or more than 90 but less than 95

Note: The scholarship mentioned above is for Phase-I only. Subsequent phases of admission will be conducted if seats remain vacant. The scholarship details for these subsequent phases can be referred from the university website www.lpu.in

Important Information

In case an candidate fails to produce the proof of fulfilment of the prescribed eligibility criteria or any other document prescribed by the university or fails to provide original documents for verification by the stipulated date(s), he/she will not be considered eligible for admission and/ or scholarship. In any case, if the admission /scholarship is granted shall be considered cancelled and the candidate shall have no claim, whatsoever against the university.

7.3 Other Scholarships/ Financial Aid offered by the University

Apart from the scholarship on the basis of LPUNEST-2025/ Qualifying Examination explained above, LPU also offers scholarship and financial aid in the following areas:

- Scholarship on the basis of performance in Innovation, Startup, Entrepreneurship & Hackathons.
- Special Scholarship for Toppers of Education Board
- Financial Aid - Need Based

- Financial Aid for Serving/ Retired Defence/ CAPF/ Para- Military personnel and their dependents
- Financial Aid to Orphan
- Financial Aid to Persons with Certain Disability
- Financial Aid for LPU Rakshak Samman Anudan
- Financial Aid for LPU Shikshak Samman Anudan

The scholarship/ financial aid mentioned is applicable for specific B.Tech. programmes. For details regarding scholarship/ financial aid, refer university website i.e. www.lpu.in

8. LPU Admit Portal

LPU provides a one stop platform for admission at the university through LPU Admit. It provides facilities to kickstart the career of students and assist in services ranging from filling LPUNEST application form to taking admission. Few of the processes/ activities that can be completed on LPU Admit portal are:

- Fill the LPUNEST application form (Correct/ Up to date information to be ensured)
- Book Slot for LPUNEST
- Check your result post LPUNEST
- Proceed with Admission
- Pay Admission fee
- Upload Requisite Documents
- Apply for second chance LPUNEST and Exam alteration
- Programme Transfer
- Pay balance fee
- Can raise the query (if any)

9. How to Apply

Application forms can be obtained and submitted using one of the following methods:

Option I- Online Mode

Visit **LPUADMIT** (admission.lpu.in) and complete the following steps:

Step 1 – Sign Up

Register on LPUADMIT (admission.lpu.in) with basic details (Name, Email ID, Mobile No., State, Gender, City, Qualification, Discipline).

Step 2 – Payment for LPUNEST Kit

The cost of LPUNEST Kit needs to be paid by the candidate as per his/ her choice.

Application Fee

- Soft copy of LPUNEST Kit for ₹ 1000.
- Printed LPUNEST Kit for ₹ 1500.

The payment can be made using Internet Banking/Credit Card/ Debit Card / UPI.

Step 3 – General Information and Qualification details

The application form details like aadhar card number, address details, contact details of parents and qualification details need to be filled by the candidate.

Step 4 – Exam Information

Candidates are required to specify their preferred exam mode (remotely proctored or exam centre based) to appear in the exam. “Slot to be booked” by option will be available only for candidate choosing the exam centre based exam.

Refer point 10.3 to know the details of Online Slot Booking.

Option-II: Offline Mode

LPUNEST Kit may be obtained by the candidate from the University Campus or any other prescribed place by paying cash.

- Cost of Application form of LPUNEST Kit is ₹ 1000.
- Once the candidate has obtained the LPUNEST Kit, application form can be submitted by one of the following methods:

a. Manual Application:

Fill the full Application form after reading all the instructions as specified under the head “Instructions for filling Application Form (Refer point 23) (candidate must provide 10th grade details and must send a photocopy of their 10th grade certificate along with the Application form) and send it to the university in the self-addressed envelope at the following address:

Block 30, Room No 505, Lovely Professional University, Jalandhar Delhi, GT Road, Phagwara, Punjab, India – 144411

Note: Incomplete application (For example: Declaration not signed) will not be processed and LPU does not take responsibility to inform these candidates. Such candidates will not be able to access the LPU Admit. Candidates are hence advised to duly fill the application form and dispatch it along with complete requisite documents in all respects.

b. Semi-Offline Application:

In case candidate is unable to send the hard copy of Application form, then candidate may scratch the Unique Application code available on application form and follow the below mentioned steps:

- Sign up on LPU ADMIT portal (admission.lpu.in)
- When prompted for payment, enter the Unique Application Code and Application Form No. (given on Application Form).
- After successful submission of LPUNEST application fee, refer the step - 3 of Option-I Online Mode of point no. 9 as mentioned above

Note: Printout of the computer-generated application should be retained by the candidate for future reference.

All our correspondence including exam centre booking and Hall Ticket details will be through email only. Therefore, the candidates are requested to provide valid email id and mobile number for contact. No separate communication will be done for the same.

9.1 Preference for Exam Mode

We believe in providing flexibility to our candidates, and that includes the mode of the entrance exam. You have the freedom to select the exam mode that best aligns with your preferences and circumstances. Here are your options:

Option 1: Remotely Proctored Exam from Home

Take the exam from the comfort of your own home, eliminating the need for travel and offering greater convenience. Candidates opting for remote proctoring must ensure they meet the infrastructure requirements outlined in point no.12.2. We have implemented a secure proctoring system to ensure a fair and reliable testing experience.

Option 2: Exam Centre Near Your Area

Prefer a traditional exam centre setting. You can choose to take the exam at a exam centre located near your area. We have established various exam centres across different locations to accommodate your needs.

10. Slot Booking through LPU Admit (For Exam Centre Applicants only)

Applicants can book their slot for LPUNET (if opted for Applicant option of slot booking), download e-hall ticket, check their result and perform various other activities related to admission using LPU admit portal.

10.1 Username and Password:

Username and Password can be obtained through the following ways:

- As candidate complete the signup on the LPUADMIT portal, Username of the applicant will be his/ her email ID.
- Password will be auto-generated. Candidate will receive the password on registered e-mail ID.
- Candidate can reset password by login into LPU ADMIT Portal.
- OTP based login for accessing LPUAdmit Portal is also available on the portal.

10.2 Instructions regarding Username and Password:

- The user name and password must be remembered to check the updates related to the exam and access the dashboard on LPUADMIT Portal.
- The security of your password is totally candidate's responsibility. University will not be held accountable or responsible for any claim or loss that results directly or indirectly from any unauthorized use or misuse of your password.
- The Password must be kept confidential. The candidates should not disclose it with others. The Password should not be written down or stored or auto saved on their computers/ any device.
- Password is required to book the slot, access the dashboard and perform various task related to exam and admission such as download hall ticket, check the allocated slot by the university. (If the candidate has opted for the booking of slot by the university)
- In case an candidate is using the manual application process, once University receives the Application Form, an e-mail regarding Username and Password will also be sent to the candidate. So, candidates are required to fill a valid e-mail ID in the application form.
- By using same user id, an candidate can apply for LPUNET exam of different programmes. However, applicant is not allowed to create multiple dashboards.

10.3 Online Slot Booking:

While filling the Application form or submitting online application, applicants need to select the mode of exam i.e. Exam centre based or remotely proctored exam. In exam centre based exam the Applicant option (himself/herself) or University option (allowing university to book slot as per preferences provide by him/her).

Flexible Exam Date Selection (For both Exam Centre and Remotely Proctored Exam)

To further enhance your convenience, you can either let the university assign an exam date for you or select a date from those available on the LPU portal during the Slot booking process. This way, your exam date can fit seamlessly into your schedule. At LPU, we believe in empowering you to make choices that suit your unique circumstances. We are committed to making the entrance exam experience as accessible and accommodating as possible.

website: www.lpu.in

Option-I: Booking of the slot by the Applicant

- Online Slot booking is a web based online scheduling system available at LPU Admit which will be activated as per dates mentioned on the university website www.lpu.in
- Candidates can access the LPU Admit Portal to book their exam schedule.
- Candidates can opt for their preferred exam mode, either at a exam centre or through remote proctoring as per their convenience.
- The schedule bookings are done on first-come-first-serve basis and are subject to the availability of seats at the exam centre.

Option-II: Booking of the slot by university (For Exam Centre Candidates Only)

- Candidate has to specify upto 5 choices of exam dates on the Application form/ online application.
- University will allot any one date (preferably from the given choices) for the exam as per the availability of exam slots. University will process the request for exam slot within 48 hours after receiving the application form. However, all application received before the start date of the slot booking will be processed only when LPU Admit/ Slot booking will be activated (refer university website www.lpu.in).
- Candidate has to visit LPU Admit and is required to fill username and password to check the allocated slot for the exam or check the registered email id.
- In case of non-availability of the slots out of the choices filled by the candidate or any other reasons, university may allot any other date to the candidate. Candidate can also be contacted for change of mode of exam in same cases.

10.4 Important Points For Online Slot Booking Procedure

- In case of non-availability of the slots in a centre/exam mode of choice, the candidate may choose to book a slot in an alternate centre/exam mode.
- If for any reason, including poor response of candidates for appearing at a particular centre, an exam centre may be cancelled, the candidates who had opted for that centre will be allotted another centre. LPU will inform such candidates individually through registered e-mail ID/ mobile number. Candidate may also be given an option to change the exam mode to Remotely Proctored exam provided he/she has the required infrastructure available.
- The online slot booking is available only to those eligible candidates who have submitted the application forms complete in all respects on or before the last date mentioned on the university website www.lpu.in
- It is the responsibility of the candidate to book their exam slot in LPU Admit portal in the given time frame if he/she has chosen that booking of the slot will be done by the Applicant in the Application form/ online application form. LPU will not be held accountable for the non-bookings. The application/ entrance exam fee will not be refunded under any circumstances for such cases.
- The confirmation mail will be automatically sent on the registered email ID after the candidate has booked his/her slot through the online slot Booking interface

Important Note:

- I. In the rare and highly unlikely event of a technical failure/ natural calamities/ unforeseen circumstances during the exam, the applicant may be required to appear for the exam again.
- II. Candidates must visit www.lpu.in regularly to obtain latest news, information and updates on LPUNEST-2025

11. Hall Ticket (For Exam Centre Candidates Only)

Process for downloading the hall ticket:

1. For Candidates who booked their exam slot themselves:

The Hall Ticket will be generated immediately after the candidate books the slot (Refer university website www.lpu.in for slot booking dates).

2. For Candidates whose exam slot is booked by the University:

The Hall Ticket will be generated after 48 hrs. of receiving the application form and will be made available at LPU Admit portal. However, all applications received before the start date of the slot booking will be processed only when online booking starts (for details refer university website www.lpu.in).

Candidate can log in to LPU Admit Portal to download the hall ticket. The Hall Ticket will indicate the address of the exam centre, exam date, time allotted to the candidate and regulations. Discrepancies, if any, must be brought to the notice of the university immediately at lpunest@lpu.co.in. or raise the query on LPUADMIT dashboard.

The Hall Ticket will NOT be dispatched to candidates via post or fax.

Candidates should take two print outs of the Hall Ticket using the print option on A4 size paper only. Please ensure that all information on the Hall Ticket is clearly visible on the print out. No candidate will be permitted to appear for the exam without a valid hall ticket.

The candidates must not mutilate the Hall Ticket or change any entry made therein after it has been authenticated and received by them. The Hall Ticket is not transferable to any other person. Impersonation is a legally punishable offence.

Candidates should report to the selected exam centre with two copies of the hall ticket along with original valid ID proof such as (any one):

- Permanent driving license
- Passport
- PAN Card
- Aadhar Card
- Government-issued ID containing photograph and signature

12. Online Entrance Exam**12.1 What is Online Entrance Exam:**

The LPUNEST (Lovely Professional University National Entrance and Scholarship Exam) is a computer-based online exam designed to assess the aptitude and knowledge of candidates aspiring to join various programs offered by Lovely Professional University. Whether you choose to take the exam at a designated exam centre or opt for the convenience of a remotely proctored exam, the core experience remains the same.

Exam Mode

LPUNEST offers two exam mode: Exam centre-based and remotely proctored. Exam centre-based exams are conducted at designated examination centres, providing a structured and monitored environment. On the other hand, remotely proctored exams allow you to take the exam from the comfort of your own space, provided you have a reliable internet connection and a suitable computer setup.

12.2 Guidelines for Remotely Proctored LPUNEST exam

If the candidate opts for a remotely proctored exam from home, then he/ she will get to choose desired date and time from available option in the interface.. The candidate will get an email regarding the guidelines, date, and time of the exam. The remotely proctored exam will be monitored live through various Artificial Intelligence tools and by the invigilators. You can take your LPUNEST exam in the comfort of your home while being monitored by our proctors. To appear in exam from home, you need to ensure the following infrastructure at your end:

- The remotely proctored exam required two devices. A Laptop/ Desktop (Primary device) and smartphone (Secondary device). A Primary device, Windows/ Linux/ Mac laptop or desktop with proper working webcam and microphones.
- A secondary device, mobile phone (iOS/Android) acting as a 3rd eye with proper working front camera and microphone.
- Both devices are mandatory to appear in exam. You cannot appear in exam with a single device.
- An isolated room with proper lighting without any external disturbances.
- Candidates must have a desk and chair preferably with a plain backdrop with adequate lighting. Appearing in exam while sitting on a couch, bed or on floor is strictly not allowed.
- Candidates are not allowed to appear in exam if the examination area is public place or a noisy environment.
- In case of non-availability of above mentioned infrastructure, the candidate must opt for Exam Centre Based exam.
- To appear for the exam at home, a minimum 1MBPS speed of the internet is required.

Note: Once the candidate selects Remotely Proctored Exam from home, then the candidate cannot switch to Exam Centre-Based exam.

A detailed list of prohibited activities are available in the general guidelines document. Even an iota of violation of instructions will result in a candidate's disqualification.

**For general guidelines,
Scan the QR Code**

**12.3 Procedure for Exam Centre Based Exam**

The candidates must ensure that the computer allotted to them is switched on and any problem with the computer should be informed to the invigilator immediately.

The exam will consist of multiple choice questions (MCQs) and fill in the blank (wherever applicable). Fill in the blanks will have one answer having numerical value (To be answered upto two decimal values only). Each MCQ will consist of a stem which may be in the form of a question or an incomplete statement and four responses labelled A, B, C and D. One of these four responses will be correct or most appropriate answer. Candidates must choose the correct or most appropriate answer by clicking on the button next to the answer.

ROUGH WORK

All rough work should be done in the paper's provided in the Exam Centre. Candidate must not carry any paper to the exam centre.

13. Question Paper Pattern and Evaluation for LPUNEST-2025

The duration of the exam is 150 minutes (2 hrs. 30 min.) The approximate distribution of questions and marks per subject is as follows:

Subject	No. of Questions	Marks (per question)	Total Marks
Physics	25 questions (20 MCQs and 5 Fill in the blanks with numerical value)	4 Marks each	100
Chemistry	25 questions (20 MCQs and 5 Fill in the blanks with numerical value)	4 Marks each	100
Mathematics	25 questions (20 MCQs and 5 Fill in the blanks with numerical value)	4 Marks each	100
Biology	25 questions (All MCQs)	4 Marks each	100
English	25 questions (All MCQs)	4 Marks each	100

Candidates can opt for either English, Physics, Chemistry, Mathematics or English, Physics, Chemistry, Biology.

There will be no negative marking for wrong answers or unanswered questions.

14. Regulations at the Exam Centre

Candidates should arrive at the exam centre as per the reporting time mentioned in the hall ticket. There will be pre-exam process which includes registration and an on-site orientation prior to the start of the actual exam. If an candidate arrives after the on-site orientation has begun, he/she will not be allowed to take the exam.

The candidate has to register his/her name in the registration counter. The hall ticket of the candidates will be checked to verify the identity of each candidate. A photograph of the candidate may be clicked at the exam centre for verification purpose.

Each candidate will be allotted a seat with a computer. Candidates must find out and occupy their allotted seats at least 15 minutes before the commencement of the exam.

Candidates will not be allowed to carry any textual material, printed or written, bits of papers or any other material except the hall ticket and ID proof inside the exam hall. Candidates are also not permitted to bring calculators, slide rules, electronic watches with facilities of calculators, laptop or palmtop computers, personal stereo systems,

walkie-talkie sets, mobile phones, paging devices or any other object/device that is likely to be of unfair assistance.

No candidate will be allowed to go outside the exam hall till the completion of the exam. Smoking in the exam hall is strictly prohibited. Tea, coffee, cold drinks or snacks are also not allowed to be taken into the exam hall.

There are no waiting facilities for family and friends at the exam centre. Candidates should plan to meet them elsewhere after the exam ends.

Candidates shall maintain perfect silence and attend to their questions only. All actions of the candidate in the exam hall will be closely monitored using web cameras and closed circuit TV cameras. Any conversation or movement or disturbance in the exam hall shall be deemed as misbehaviour and if an candidate is found using unfair means or impersonation, their candidature will be cancelled and they will be liable to be debarred from taking examination either permanently or for a specified period to be decided by LPU. LPU reserves the right to withhold the result of such candidates.

Candidates must sign the attendance sheet in the presence of the invigilator.

15. List of Exam Cities

List of exam cities is attached as Annexure-I.

16. Syllabi of LPUNEST-2025

Syllabi of LPUNEST- 2025 is attached as Annexure-II.

17. Sample Questions of LPUNEST-2025

Sample Questions of LPUNEST-2025 is attached as Annexure-III

18. Result

After the end of the schedule, the scores (subject wise as well as total) obtained by the candidates will be provided to them. The final result sheet containing the ranks of the candidates will be released. These scores will also determine the amount of scholarship one would be availing.

If there arises a case of ties in total scores between candidates, comparison will be made between the subject wise scores obtained by them (details of which will be available on the university website www.lpu.in). Also, the age of the candidates will be taken into consideration to resolve the tie, where candidates who are elder will be ranked prior with regards to other candidates. Since it is an online Computer Based Test (CBT), there is no provision of revaluation of LPUNEST answers.

19. Process of Online Counselling and Admission

- After declaration of LPUNEST result, the process of admission will vary depending on the programme in which the candidate will be taking admissions which is explained below:
 - After qualifying LPUNEST, Download your scorecard.
 - Fill the seat preference. The candidate can give a number of preferences (depending upon the choice of discipline).
 - The candidate will be allotted a particular programme after the first round of counselling, based upon the availability of seat, preferences filled and performance of the candidate. (Note: After the first round of the counselling, the upgradations of the allotted seats may be done or vacant seats may be filled in subsequent rounds)
 - Download the allotment letter.

- (e) Deposit initial payment of ₹ 10000/- to confirm the seat.
- (f) Complete the Admission form.
- (g) Following documents are required to be submitted.
 - Passport Size Photograph
 - **Date of Birth proof** (Matric certificate, PAN card, Adhaar card),
 - **Eligibility Certificate:** 10+2 marksheet/ transcript serves as the eligibility certificate.

In case the eligibility certificate is not available at the time of filling this application form (recently appeared), it may be submitted later on also.

- (h) All the submitted documents are to be verified from the originals within the prescribed timelines.
- (i) Deposit the balance fee within the timelines prescribed by the university.

The process mentioned above in point no. 19 is for Phase-I only. Subsequent phases of admission will be conducted if seats remain vacant. The dates and process of admission for these subsequent phases can be referred from the university website www.lpu.in

Note: Please note that no representative of Lovely Professional University would ask for transfer of any kind of funds to his or her personal account or would indulge into personal chats with aspirants or their guardians. In case of any such activity, you should report the incident immediately at grievance.doa@lpu.co.in

20. Test Alteration

By default request for change in date or exam centre for LPUNEST-2025 will not be considered. Under exceptional circumstances, the request for change in date or exam centre for LPUNEST-2025 may be considered. Candidate may apply for test alteration online through LPU Admit 72 hrs before exam along with processing fee of ₹ 450. Candidate can apply for the test alteration in case he/she wants to change the mode of exam.

21. Loan Facility

For the facilitation of education loans to University students, the University has tied up with the nationalized banks of India including:

1. Punjab National Bank
2. State Bank of India
3. Bank of Baroda

In addition HDFC Bank, Union Bank of India, Canara Bank, IDBI Bank, Tripura Gramin Bank, Assam Gramin Vikash Bank, Axis Bank and Indian Bank have also given proposal letter for providing Loan facility to students of University from their respective branches. Some Non-Banking financial companies like NSDL e-governance, AFINOZ, Eduvanz and Credenc are also offering education loan facilities to the students of LPU.

Students can avail Education Loan Facility in the first year as well as in the subsequent years.

Students at the time of admission or at the time of applying for educational loan are given loan letter or alike document as required by the concerned bank for loan purposes, as and if deem appropriate.

For the convenience of students, the University has set up a separate Loan Assistance Cell, to cater all the needs like loan letter, loan application form and for any other justifiable assistance required from the University.

The University Campus itself has the branches of the following banks that may be approached by the students/parents for loan purposes:

- State Bank of India
- Punjab National Bank
- ICICI Bank

However, the students and their parents/guardian will be personally responsible for loan sanction and repayment of loan and all kind of liabilities and consequences arising thereof. The University will not be liable and responsible in this regard.

22. Refund Policy

1. Application for refund of Programme Fee, Residential charges (Residence)/ Charges for Laundry and its administration/ Charges for Mess and its administration/ Charges for Transport and its administration/ Charges for Parking and its administration/ Charges for Indoor Stadium/ Charges for Gym Facility received up to 30 days after the last date of Admission for the concerned programme will be accepted and thereafter no application for refund will be accepted.

2. (a) Refund of Programme Fee

i. Withdrawal on or before 15 days from the last date of Admission for the concerned programme

In case an applicant withdraws before 15 days from the last date of admission for the concerned programme and if the seat consequently falling vacant is filled by a waitlisted applicant (if any) then the amount already deposited by the applicant, after the deduction of processing fee of ₹ 1000/- (Rupees One Thousand) shall be refunded.

ii. Withdrawal on or before the last date of admission for concerned programme

In case an applicant withdraws on or before the last date of admission for the concerned programme and if the seat consequently falling vacant is filled by a waitlisted applicant (if any) then the amount already deposited by the applicant, after deduction of 10% of programme fee for academic session (annual), shall be refunded.

iii. Withdrawal not more than 15 days after the last date of admission for concerned programme

In case an applicant withdraws not more than 15 days after the last date of admission for the concerned programme and if the seat consequently falling vacant is filled by a waitlisted applicant (if any) then the amount already deposited by the applicant, after deduction of 20% of programme fee for academic session (annual), shall be refunded.

iv. Withdrawal more than 15 days but less than 30 days after the last date of admission for concerned programme

In case an applicant withdraws more than 15 days but less than 30 days after the last date of admission for the concerned programme and if the seat consequently falling vacant is filled by a waitlisted applicant (if any) then the amount already deposited by the applicant, after deduction of 50% of programme fee for academic session (annual), shall be refunded.

If an applicant has paid lesser than the amount to be deducted from Programme fee, then the deduction amount may be adjusted from the fee paid for residential charges (residence)/ charges for mess and its administration/ charges for laundry and its administration/ charges for transport and its administration/ charges for parking and its

administration/ charges for indoor stadium/ charges for gym facility, if applicable.

(b) Refund of Residential charges (Residence)

i. Withdrawal on or before 15 days from the last date of Admission for the concerned programme

In case an applicant withdraws before 15 days from the last date of admission for the concerned programme and if the seat consequently falling vacant is filled by a waitlisted applicant (if any) then the amount already deposited by the applicant, after the deduction of processing fee of ₹ 500/- (Rupees Five Hundred) shall be refunded.

ii. Withdrawal on or before the last date of admission for concerned programme

In case an applicant withdraws on or before the last date of admission for the concerned programme and if the seat consequently falling vacant is filled by a waitlisted applicant (if any) then the amount already deposited by the applicant, after deduction of 10% of residential charges (residence) for academic session (annual), shall be refunded.

iii. Withdrawal not more than 15 days after the last date of admission for concerned programme

In case an applicant withdraws not more than 15 days after the last date of admission for the concerned programme and if the seat consequently falling vacant is filled by a waitlisted applicant (if any) then the amount already deposited by the applicant, after deduction of 20% of residential charges (residence) for academic session (annual), shall be refunded.

iv. Withdrawal more than 15 days but less than 30 days after the last date of admission for concerned programme

In case an applicant withdraws more than 15 days but less than 30 days after the last date of admission for the concerned programme and if the seat consequently falling vacant is filled by a waitlisted applicant (if any) then the amount already deposited by the applicant, after deduction of 50% of residential charges (residence) for academic session (annual), shall be refunded.

If an applicant has paid lesser than the amount to be deducted from Residential charges (Residence), then the deduction amount may be adjusted from the fee paid for programme/ charges for mess and its administration/ charges for laundry and its administration/ charges for transport and its administration/ charges for parking and its administration/ charges for indoor stadium/ charges for gym facility, if applicable.

(c) Refund of Charges for Mess and its administration

i. Withdrawal on or before 15 days from the last date of Admission for the concerned programme

In case an applicant withdraws before 15 days from the last date of admission for the concerned programme and if the seat consequently falling vacant is filled by a waitlisted applicant (if any) then the amount already deposited by the applicant, after the deduction of processing fee of ₹ 500/- (Rupees Five Hundred) shall be refunded.

ii. Withdrawal on or before the last date of admission for concerned programme

In case an applicant withdraws on or before the last date of admission for the concerned programme and if the

seat consequently falling vacant is filled by a waitlisted applicant (if any) then the amount already deposited by the applicant, after deduction of 10% of charges for mess and its administration for academic session (annual), shall be refunded.

iii. Withdrawal not more than 30 days after the last date of Admission for the concerned programme

In case an applicant withdraws not more than 30 days after the last date of admission for the concerned programme and if the seat consequently falling vacant is filled by a waitlisted applicant (if any) then the amount already deposited by the applicant, after deduction of 20% of charges for mess and its administration for academic session (annual), shall be refunded.

If an applicant has paid lesser than the amount to be deducted from charges for mess and its administration, then the deduction amount may be adjusted from the fee paid for programme/ residential charges (residence)/ charges for laundry and its administration/ charges for transport and its administration/ charges for parking and its administration/ charges for indoor stadium/ charges for gym facility, if applicable.

(d) Refund of Charges for Transport and its administration

i. Withdrawal on or before 15 days from the last date of Admission for the concerned programme

In case an applicant withdraws before 15 days from the last date of admission for the concerned programme then the amount already deposited by the applicant, after the deduction of processing fee of ₹ 500/- (Rupees Five Hundred) shall be refunded.

ii. Withdrawal on or before the last date of admission for concerned programme

In case an applicant withdraws on or before the last date of admission for the concerned programme and if the seat consequently falling vacant is filled by a waitlisted applicant (if any) then the amount already deposited by the applicant, after deduction of 10% of charges for transport and its administration for academic session (annual), shall be refunded.

iii. Withdrawal not more than 15 days after the last date of admission for concerned programme

In case an applicant withdraws not more than 15 days after the last date of admission for the concerned programme and if the seat consequently falling vacant is filled by a waitlisted applicant (if any) then the amount already deposited by the applicant, after deduction of 20% of charges for transport and its administration for academic session (annual), shall be refunded.

iv. Withdrawal more than 15 days but less than 30 days after the last date of admission for concerned programme

In case an applicant withdraws more than 15 days but less than 30 days after the last date of admission for the concerned programme and if the seat consequently falling vacant is filled by a waitlisted applicant (if any) then the amount already deposited by the applicant, after deduction of 50% of charges for transport and its administration for academic session (annual), shall be refunded.

If an applicant has paid lesser than the amount to be deducted from charges for transport and its administration, then the deduction amount may be adjusted from the fee paid for programme/ residential charges (residence)/ charges for mess and its administration/

charges for laundry and its administration/ charges for parking and its administration/ charges for indoor stadium/ charges for gym facility, if applicable.

(e) Refund of Charges for Laundry and its administration

i. Withdrawal on or before 15 days from the last date of Admission for the concerned programme

In case, an applicant withdraws on or before 15 days from the last date of Admission for the concerned programme and if the seat consequently falling vacant is filled by a waitlisted applicant (if any) then the amount already deposited by the applicant, after the deduction of processing fee of ₹200/- (Rupees Two Hundred) shall be refunded.

ii. Withdrawal on or before the last date of admission for concerned programme

In case an applicant withdraws on or before the last date of admission for the concerned programme and if the seat consequently falling vacant is filled by a waitlisted applicant (if any) then the amount already deposited by the applicant, after deduction of 10% of charges for laundry and its administration for academic session (annual), shall be refunded.

iii. Withdrawal not more than 30 days after the last date of Admission for the concerned programme

In case, an applicant withdraws not more than 30 days after the last date of admission for the concerned programme and if the seat consequently falling vacant is filled by a waitlisted applicant (if any) then the amount already deposited by the applicant, after deduction of 20% of charges for laundry and its administration for academic session (annual), shall be refunded.

If an applicant has paid lesser than the amount to be deducted from charges for laundry and its administration, then the deduction amount may be adjusted from the fee paid for programme/ residential charges (residence)/ charges for mess and its administration/ charges for gym facility, charges for transport and its administration/ charges for parking and its administration/ charges for indoor stadium, if applicable.

(f) Refund of Charges for Indoor Stadium

i. Withdrawal on or before 15 days from the last date of Admission for the concerned programme

In case, an applicant withdraws on or before 15 days from the last date of Admission for the concerned programme and if the seat consequently falling vacant is filled by a waitlisted applicant (if any) then the amount already deposited by the applicant, after the deduction of processing fee of ₹200/- (Rupees Two Hundred) shall be refunded.

ii. Withdrawal on or before the last date of admission for concerned programme

In case an applicant withdraws on or before the last date of admission for the concerned programme and if the seat consequently falling vacant is filled by a waitlisted applicant (if any) then the amount already deposited by the applicant, after deduction of 10% of charges for indoor stadium for academic session (annual), shall be refunded.

iii. Withdrawal not more than 30 days after the last date of Admission for the concerned programme

In case, an applicant withdraws not more than 30 days after the last date of admission for the concerned programme and if the seat consequently falling vacant is filled by a waitlisted applicant (if any) then the amount already deposited by

the applicant, after deduction of 20% of charges for indoor stadium for academic session (annual), shall be refunded.

If an applicant has paid lesser than the amount to be deducted from charges for indoor stadium, then the deduction amount may be adjusted from the fee paid for programme/ residential charges (residence)/ charges for mess and its administration/ charges for laundry and its administration, charges for transport and its administration/ charges for parking and its administration/ charges for gym facility, if applicable.

(g) Refund of Charges for Gym facility and its administration

i. Withdrawal on or before 15 days from the last date of Admission for the concerned programme

In case, an applicant withdraws on or before 15 days from the last date of Admission for the concerned programme and if the seat consequently falling vacant is filled by a waitlisted applicant (if any) then the amount already deposited by the applicant, after the deduction of processing fee of ₹200/- (Rupees Two Hundred) shall be refunded.

ii. Withdrawal on or before the last date of admission for concerned programme

In case an applicant withdraws on or before the last date of admission for the concerned programme and if the seat consequently falling vacant is filled by a waitlisted applicant (if any) then the amount already deposited by the applicant, after deduction of 10% of charges for gym facility for academic session (annual), shall be refunded.

iii. Withdrawal not more than 30 days after the last date of Admission for the concerned programme

In case, an applicant withdraws not more than 30 days after the last date of admission for the concerned programme and if the seat consequently falling vacant is filled by a waitlisted applicant (if any) then the amount already deposited by the applicant, after deduction of 20% of charges for gym facility for academic session (annual), shall be refunded.

If an applicant has paid lesser than the amount to be deducted from charges for gym facility, then the deduction amount may be adjusted from the fee paid for programme/ residential charges (residence)/ charges for mess and its administration/ charges for laundry and its administration, charges for transport and its administration/ charges for parking and its administration/ charges for indoor stadium, if applicable.

(h) Refund of Charges for Parking and its administration

i. Withdrawal on or before 15 days from the last date of Admission for the concerned programme

In case, an applicant withdraws on or before 15 days from the last date of Admission for the concerned programme and if the seat consequently falling vacant is filled by a waitlisted applicant (if any) then the amount already deposited by the applicant, after the deduction of processing fee of ₹200/- (Rupees Two Hundred) shall be refunded.

ii. Withdrawal on or before the last date of admission for concerned programme

In case an applicant withdraws on or before the last date of admission for the concerned programme and if the seat consequently falling vacant is filled by a waitlisted applicant (if any) then the amount already deposited by the applicant, after deduction of 10% of charges for for Parking and its administration for academic session (annual), shall be refunded.

iii. Withdrawal not more than 30 days after the last date of Admission for the concerned programme

In case, an applicant withdraws not more than 30 days after the last date of admission for the concerned programme and if the seat consequently falling vacant is filled by a waitlisted applicant (if any) then the amount already deposited by the applicant, after deduction of 20% of charges for Parking and its administration for academic session (annual), shall be refunded.

If an applicant has paid lesser than the amount to be deducted from charges for parking and its administration, then the deduction amount may be adjusted from the fee paid for programme/ residential charges (residence)/ charges for mess and its administration/ charges for laundry and its administration/ charges for transport and its administration/ charges for indoor stadium/ charges for gym facility, if applicable

3. If student was earlier admitted to a programme but later on transferred to some other programme having lesser programme fee, then for calculation of 20% or 50% deduction for the purpose of refund of programme fee, the fee of the programme in which applicant was originally admitted (before programme transfer) will be considered.
4. In case a student has been admitted under the Scholarship / Fee Concession / Fee Waiver schemes of the University or any other Govt./Private external agency, where Scholarship/Fee Concession/Fee waiver amount is equivalent to full Programme fee, (i.e the student has been charged only the security amount) ,and such a student later on applies for refund, then the student has to pay the deduction amount from the security amount deposited.

5. Non-refundable fees/cases

- (a) Amount paid for obtaining Prospectus, Application fee, Processing fee, Entrance fee, Late fee, Programme Transfer Fee, Migration fee etc. is non-refundable under all circumstances, unless in specific are prescribed as refundable.
- (b) In case a fresher student leaves 30 days after the last date of admission or withdraws/ leaves in the midstream, in such case, that student shall have no claim of refund of fee & other charges already paid or otherwise, whatsoever against the University. Fee and other charges, also including amount paid for provisional registration, paid by the candidate shall stand forfeited and the candidate shall further be liable to pay the fee and other charges for remaining/ entire duration of the programme.
- (c) If in any case, a candidate has unknowingly or wilfully concealed or suppressed any information/fact or if found impersonating or using any fraudulent means for getting the admission to the University or for obtaining scholarship, which renders him ineligible for the admission and/ or scholarship, the admission of such an applicant shall be cancelled and/ or he/she will be liable to disciplinary action(s) as decided by the University and/or as per the law of land. That candidate shall have no claim of refund of fee & other charges already paid or otherwise, whatsoever against the University. Fee and other charges, including amount

paid for provisional registration, paid by the candidate shall stand forfeited and the candidate shall further be liable to pay the fee and other charges for remaining/ entire duration of the programme.

6. Procedure of refund

- (a) For refund, applicant needs to apply to the University on the prescribed form as available in the Prospectus 2025 or from Admission Office at the University campus.
- (b) Only original form duly filled and signed by the student and parent/guardian received in person or by post upto 30 days after the last date of Admission for the concerned programme will be accepted and thereafter no application for refund will be accepted.
- (c) Application sent via email or any other mode will not be accepted and cannot be used as a reference for claim of refund.
- (d) Postal delay will not be the liability of University and the date on which application by post is received by the University will be considered for refund.
- (e) Refund will be made only after the applicant has surrendered the original fee receipt, ID card (if already issued), letter from University for processing Loan and any other document as required by the University at the time of refund.
- (f) Refund, if any, will be made through the account payee cheque only in the favour of concerned Student or Parent as opted and written by the student while filling the 'Application form for Refund'. Once the application for refund has been submitted, then for any request to change the name of payee (student/ parent in favour of whom cheque is to be prepred), or for request to reissue the cheque because of postal delay or otherwise, additional processing fee of ₹ 500/- will be charged.
- (g) Any amount, if refunded, will be in Indian Currency only. For International Applicants, the refund against application received as per prescribed guidelines will also be in INR only with conversion rate as per actual subject to maximum ₹ 80 for 1USD.
- (h) In case, the applicant has availed any letter or document from University for processing the loan then the refund will be made through the account payee cheque in the favour of the sanctioning bank, unless the applicant submit the NOC from the Bank to get the refund in his own/ parent/ guardian favour.
7. If an applicant is admitted provisionally but later on does not satisfy the eligibility criteria, such an applicant will not be given any relaxation in refund,
8. Refund will be calculated on annual full fee (without scholarship) for academic session.
9. No interest is payable on any amount deposited with University also including refundable amount, if any.
10. (a) An applicant claiming for refund of programme fee and/ or residential charges (residence) and/or charges for

laundry and its administration and/ or charges for mess and its administration and/or charges for transport and its administration and/ or charges for parking and its administration (as applicable) before the start of session, he/she shall not join the programme and/or avail residential/ laundry/ transport/ parking facility/ mess plan (as and if applicable)

- (b) An applicant claiming for refund of programme fee and/ or residential charges (residence) and/or charges for laundry and its administration and/ or charges for mess and its administration and/or charges for transport and its administration and/ or charges for parking and its administration and/or charges for Indoor Stadium and/or charges for Gym Facility (as applicable), after the start of session shall have to leave/ discontinue his studies and/or facility (as applicable) and shall not attend the classes etc. and/or shall not avail residential/ laundry/ transport/ parking facility/ mess plan/ Sports Facility/ Gym Facility (as and if applicable) from the date of application of refund.
- (c) An applicant if joins and/or continues in the above cases (a) or (b), as and if applicable, shall not be entitled for any refund and his/her application for refund will be considered as withdrawn, null & void.

23. Instructions for filling Application Form

Read the following instructions carefully before filling the application form.

- The application form should be filled by the candidate in his/her own handwriting.
- It is suggested that the candidate make a photocopy of the form and use it for practice. ONLY THE ORIGINAL APPLICATION FORM SHOULD BE SENT.
- Read the instructions carefully before filling in the application form. Requests for corrections will not be entertained later.
- Write in CAPITAL LETTERS the required information or enter the relevant code with a black ball-point pen in the box(es) (wherever provided).
- In case you make any mistake while using black ball-point pen, cover the entire box with an exact sized white paper slip and write on it. You must not overflow this box.
- Do not scribble, cut, tear or wrinkle the application form.
- Do not put any stray pencil marks anywhere on the application form.
- Write your address and signature in black ball-point pen only.
- Please note that your name, your parent's / guardian's name and your date of birth should be exactly the same as given in our High school / +2 / Intermediate/Pre-University examination certificate.
- Your application must be complete in all respects. An incomplete application or application filled in a language other than English will summarily be rejected. Options filled by you in the application form cannot be changed at a later stage.
- Please note down the application number and unique Application Code/ Password for future reference.

ITEM WISE INSTRUCTIONS

Item-1 Name of the Candidate

Write your name in capital letters as it appears in your 10th Standard certificate.

Item-2 Date of Birth

Write the day, month and year of your birth as per the English calendar and as recorded in your 10th examination certificate. Use numerals 01 to 31 for DATE, numerals 01 to 12 for MONTH, and the last two digits for the YEAR of birth. For example, if born on 7th January 1995, the date should be entered as follows: 07 01 95.

Item-3 Exam Mode

You can select out of two options for appearing in exam i.e. remotely proctored or exam centre. You can tick the Option I or Option II according to your preference.

In case you are choosing exam centre as your preferred exam mode you have to fill following option as well.

a. Exam State

Write the name of the state in the space provided (Refer to the Annexure-I).

b. Exam City

Write the name of the city in the space provided (Refer to the Annexure-I).

Item-4 E-mail ID (Student)

Give your correct email id. It is mandatory that you should produce your correct email id (in capital letters), as all the future correspondence will be communicated through email only.

Item-5 Mobile Number

Write your mobile number in the space provided.

Item-6 Gender

Tick the appropriate option in the box provided.

Item-7 Category

Tick the appropriate option in the box provided.

Item-8 Aadhar Card Number

Write your correct Aadhar Card Number in the box provided.

Item-9 Your complete Postal Address Including Your Full Name

Write the complete postal address to which any communication is to be sent. The address must include your name, Address Line 1, Address Line 2 and all other details including the correct PINCODE, alternative mobile number and Whatsapp mobile number. Tick the right option for APAAR/ABC ID and if it is option I, mention the ID

in the given space. It should be written very clearly and in CAPITAL LETTERS in black ballpoint pen only.

Item-10 Parents Details

Write your Mother's name and Father's name in capital letters as it appears in your 10th Standard certificate. Write your parents e-mail ID and mobile no.

Item-11 Test Applying For

Tick the appropriate option depending upon your exam. (For details visit www.lpu.in)

Item-12 Details of the Qualifying Examination Passed/ Appearing For

Give the details of Higher Secondary/ College/ University examination. If already passed, attach xerox copies of the relevant marks sheet. The year of commencement and year of passing, should be written very clearly and in CAPITAL LETTERS in black ballpoint pen only.

Write the appropriate code of X & XII Board and refer the code from ANNEXURE-V.

Item - 13 Details of Matriculation (Class 10th) Qualification Passed

Give the details of School/ College examination. Attach xerox copies of the relevant marks sheet. The year of commencement and year of passing, should be written very clearly and in CAPITAL LETTERS in black ballpoint pen only.

Item-14 Slot Booking

There are two options to book the slot for taking exam. If candidate wants University to book the slot, Tick option 1. If you wish to book the slot yourself, Tick option 2. (If opted for Exam centre mode of exam in point no 3)

Item – 15 Choice of Exam Date

If candidate has selected the option 1 in ITEM-14, then five options of Choice of Exam Date are to be given here. Write Day, Month and Year as per English calendar. Dates mentioned here should be as per the "Important Dates" mentioned on university website www.lpu.in. Considering postal delays/ holidays etc. The dates mentioned should be atleast 7 days later then the current date i.e. date of posting the application.

Item-16 Reservation Category (only for Punjab Applicants)

Refer to the point no. 19 for Reservation Category and write the appropriate code in the box provided.

Item-17 Stay Connected with LPU!

To stay updated with the latest news about LPU, select the active social media platforms and provide the username or ID for each.

Item – 18 Declaration

The candidate must sign the declaration and fill up the place and date. Applications without signatures will be treated as incomplete and rejected.

It is mandatory for the candidate to paste his/ her photograph in the given space.

24. Instructions for filling Seat Preference Form

Following are the instructions for filling the seat preference form.

ITEM WISE INSTRUCTIONS (SEAT PREFERENCE FORM)

Item-1 Name of the Candidate

Write your name in capital letters as it appears or would appear in your X Std certificate.

Item-2 Preference Table

The candidate has to rank the programme/ stream in the order of your preference number in the table.

Note: The seat preference filled in this form will be recorded online. However, the candidate will have the opportunity to change the preference during the online counseling process as per 'Important Dates' mentioned on University Website, i.e., www.lpu.in.

25. List of Annexures

- Annexure - I - List of Exam Cities - LPUNEST-2025
- Annexure - II - Syllabi of LPUNEST-2025
- Annexure - III - Sample Questions of LPUNEST-2025
- Annexure - IV - Reservation Category (only for Punjab Applicants)
- Annexure - V - Codes of the School Education Boards of Class X & XII
- Annexure - VI - Codes of the States/ Union Territories
- Annexure - VII - Fee & Scholarship Table
- Annexure - VIII - Filled Sample Application form
- Annexure - IX - Filled Sample Seat Preference Form

Annexure - I
[LIST OF EXAM CITIES (LPUNEST-2025)]

State	City	City code
ANDAMAN & NICOBAR	PORT BLAIR	231
ANDHRA PRADESH	ANANTAPUR	102
	BHIMAVARAM	236
	ELURU	234
	GUDLAVALLERU	215
	GUNTUR	103
	KADAPA	235
	KAKINADA	301
	KURNOOL	104
	NELLORE	105
	ONGOLE	308
	RAJAHMUNDRY	106
	TIRUPATI	303
	VIJAYAWADA	107
	VISAKHAPATNAM	101
	VIZIANAGARAM	238
ARUNACHAL PRADESH	ITANAGAR	239
ASSAM	GUWAHATI	108
BIHAR	BEGUSARAI	109
	BHAGALPUR	110
	CHAPRA	244
	DARBHANGA	245
	GAYA	111
	MUZAFFARPUR	112
	PATNA	113
	PURNEA	247
	SIWAN	246
CHANDIGARH	CHANDIGARH	114
CHATTISGARH	BILASPUR (CG)	116
	RAIPUR	118
DELHI	NEW DELHI	165

State	City	City code
GOA	MARGAO	119
GUJARAT	AHMEDABAD	120
	CHANGA	216
	RAJKOT	122
	SURAT	123
	VADODARA	124
HARYANA	AMBALA	125
	BHIWANI	126
	GURUGRAM	128
	HISAR	129
	KARNAL	130
	PANIPAT	131
	ROHTAK	132
HIMACHAL PRADESH	DHARAMSHALA	249
	HAMIRPUR	136
	PALAMPUR	139
	SOLAN	141
JAMMU & KASHMIR	JAMMU	143
	SRINAGAR	144
JHARKHAND	BOKARO	250
	DHANBAD	145
	HAZARIBAGH	251
	JAMSHEDPUR	146
	RANCHI	147
KARNATAKA	BENGALURU	149
	MYSORE	321
KERALA	ALUVA	345
	COCHIN	149
	ERNAKULAM	344
	KANNUR	339
	KOLLAM	259

State	City	City code
KERALA	KOTTAYAM	335
	KOZHIKODE	150
	MALAPPURAM	334
	PALAKKAD	260
	THRISSUR	340
	TRIVANDRUM	151
MADHYA PRADESH	BHOPAL	152
	GWALIOR	153
	INDORE	154
	JABALPUR	155
MAHARASHTRA	AURANGABAD	214
	KOLHAPUR	156
	MUMBAI	157
	NAGPUR	158
	NASHIK	159
	PUNE	160
	SANGLI	356
MANIPUR	IMPHAL	161
MEGHALYA	SHILLONG	162
MIZORAM	AIZAWL	163
NAGALAND	DIMAPUR	164
ORISSA	BHUBANESWAR	167
PUDUCHERRY	PUDUCHERRY	224
PUNJAB	AMRITSAR	170
	BATHINDA	171
	LUDHIANA	173
	PATHANKOT	174
	LPU (JALANDHAR)	172
RAJASTHAN	JAIPUR	180
	KOTA	182
	SIKAR	391
	UDAIPUR	183

State	City	City code
SIKKIM	GANGTOK	275
TAMIL NADU	CHENNAI	184
	COIMBATORE	185
	MADURAI	186
	SALEM	226
	TIRUNELVELI	374
	TRICHY	380
TELANGANA	HYDERABAD	187
	KARIMNAGAR	288
	KHAMMAM	188
	WARANGAL	191
TRIPURA	AGARTALA	192
UTTAR PRADESH	AGRA	193
	BAREILLY	196
	FAIZABAD	294
	GHAZIABAD	197
	GORAKHPUR	198
	JHANSI	297
	KANPUR	199
	LUCKNOW	200
	MEERUT	201
	MUZAFFARNAGAR	203
	NOIDA	204
	PRAYAGRAJ	195
	SAHARANPUR	205
	VARANASI	206
UTTARAKHAND	DEHRADUN	207
	HALDWANI	208
	HARIDWAR	209
WEST BENGAL	DURGAPUR	211
	KOLKATA	212
	SILIGURI	213

For more details, refer university website: www.lpu.in

ANNEXURE - II (SYLLABI OF LPUNEST - 2025)

CHEMISTRY

UNIT 1: Some basic concepts in chemistry: Matter and its nature, Dalton's atomic theory; Concept of atom, molecule, element and compound; Physical quantities and their measurements in Chemistry, precision and accuracy, significant figures, S.I. Units, dimensional analysis; Laws of chemical combination; Atomic and molecular masses, mole concept, molar mass, percentage composition, empirical and molecular formulae; Chemical equations and stoichiometry.

UNIT 2: Atomic structure: Discovery of sub - atomic particles (electron, proton and neutron), Thomson and Rutherford atomic models and their limitations; Nature of electromagnetic radiation, photoelectric effect; Spectrum of hydrogen atom, Bohr model of hydrogen atom - its postulates, derivation of the relations for energy of the electron and radii of the different orbits, limitations of Bohr's model; Dual nature of matter, de-Broglie's relationship, Heisenberg uncertainty principle.

Elementary ideas of quantum mechanics, quantum mechanical model of atom, its important features, concept of atomic orbitals as one electron wave functions; Variation of Ψ and Ψ^2 , with r for 1s and 2s orbitals; various quantum numbers (principal, angular momentum and magnetic quantum numbers) and their significance; shapes of s, p and d - orbitals, electron spin and spin quantum number; Rules for filling electrons in orbitals – aufbau principle, Pauli's exclusion principle and Hund's rule, electronic configuration of elements, extra stability of half-filled and completely filled orbitals.

UNIT 3: Chemical bonding and molecular structure: Kossel - Lewis approach to chemical bond formation, concept of ionic and covalent bonds.

Ionic Bonding: Formation of ionic bonds, factors affecting the formation of ionic bonds; calculation of lattice enthalpy.

Covalent Bonding: Concept of electronegativity, Fajan's rule, dipole moment; Valence Shell Electron Pair Repulsion (VSEPR) theory and shapes of simple molecules.

Quantum mechanical approach to covalent bonding: Valence bond theory - Its important features, concept of hybridization involving s, p and d orbitals; Resonance.

Molecular Orbital Theory: Its important features, LCAOs, types of molecular orbitals(bonding, antibonding), sigma and pi-bonds, molecular orbital electronic configurations of homonuclear diatomic molecules, concept of bond order, bond length and bond energy.

Elementary idea of metallic bonding. Hydrogen bonding and its applications.

UNIT 4: Chemical thermodynamics: Fundamentals of thermodynamics: System and surroundings, extensive and intensive properties, state functions, types of processes.

First law of thermodynamics: Concept of work, heat internal energy and enthalpy, heat capacity, molar heat capacity; Hess's

law of constant heat summation; Enthalpies of bond dissociation, combustion, formation, atomization, sublimation, phase transition, hydration, ionization and solution.

Second law of thermodynamics: Spontaneity of processes; ΔS of the universe and ΔG of the system as criteria for spontaneity, ΔG° (Standard Gibbs energy change) and equilibrium constant.

UNIT 5: Solutions: Different methods for expressing concentration of solution - molality, molarity, mole fraction, percentage (by volume and mass both), vapour pressure of solutions and Raoult's Law – Ideal and non-ideal solutions, vapour pressure - composition, plots for ideal and non-ideal solutions; Colligative properties of dilute solutions - relative lowering of vapour pressure, depression of freezing point, elevation of boiling point and osmotic pressure; Determination of molecular mass using colligative properties; Abnormal value of molar mass, van't Hoff factor and its significance.

UNIT 6: Equilibrium: Meaning of equilibrium, concept of dynamic equilibrium.

Equilibria involving physical processes: Solid -liquid, liquid - gas and solid – gas equilibria, Henry's law, general characteristics of equilibrium involving physical processes.

Equilibria involving chemical processes: Law of chemical equilibrium, equilibrium constants (K_p and K_c) and their significance, significance of ΔG and their ΔG° in chemical equilibria, factors affecting equilibrium concentration, pressure, temperature, effect of catalyst; Le Chatelier's principle.

Ionic equilibrium: Weak and strong electrolytes, ionization of electrolytes, various concepts of acids and bases (Arrhenius, Bronsted - Lowry and Lewis) and their ionization, acid – base equilibria (including multistage ionization) and ionization constants, ionization of water, pH scale, common ion effect, hydrolysis of salts and pH of their solutions, solubility of sparingly soluble salts and solubility products, buffer solutions.

UNIT 7: Redox reactions and Electrochemistry I: Electronic concepts of oxidation and reduction, redox reactions, oxidation number, rules for assigning oxidation number, balancing of redox reactions.

Electrolytic and metallic conduction, conductance in electrolytic solutions, specific and molar conductivities and their variation with concentration: Kohlrausch's law and its applications.

UNIT 8: Redox reactions and Electrochemistry II:

Electrochemical cells - Electrolytic and Galvanic cells, different types of electrodes, electrode potentials including standard electrode potential, half - cell and cell reactions, emf of a Galvanic cell and its measurement; Nernst equation and its applications; Relationship between cell potential and Gibbs' energy change; Dry cell and lead accumulator; Fuel cells: Corrosion and its prevention

UNIT 9: Chemical Kinetics: Rate of a chemical reaction, factors affecting the rate of reactions: concentration, temperature, pressure and catalyst; elementary and complex reactions, order and molecularity of reactions, rate law, rate constant and its units, differential and integral forms of zero and first order reactions, their characteristics and half - lives, effect of temperature on rate of reactions – Arrhenius theory, activation energy and its calculation, collision theory of bimolecular gaseous reactions (no derivation).

UNIT 10 : Classification of Elements and Periodicity in Properties:

Modern periodic law and present form of the periodic table, s, p, d and f block elements, periodic trends in properties of elements, atomic and ionic radii, ionization enthalpy, electron gain enthalpy, valence, oxidation states and chemical reactivity.

UNIT 11: p - Block elements

Group 13 to Group 15 Elements: General Introduction: Electronic configuration and general trends in physical and chemical properties of elements across the periods and down the groups; unique behaviour of the first element in each group.

Group Wise study of the p – block elements.

Group 13: Preparation, properties and uses of boron and aluminium; Structure, properties and uses of borax, diborane, boron tri-fluoride, aluminium chloride and alums.

Group 14: Tendency for catenation; Structure, properties and uses of allotropes and oxides of carbon, silicon tetrachloride, silicates, zeolites and silicones.

Group 15: Properties & uses of nitrogen and phosphorus; Allotropic forms of phosphorus; Preparation, properties, structures and uses of ammonia, nitric acid, phosphine and phosphorus halides, (PCl_3 , PCl_5); Structures of oxides and oxoacids of nitrogen and phosphorus.

UNIT 12: p - Block elements

Group 16 to Group 18 Elements:

General Introduction: Electronic configuration and general trends in physical and chemical properties of elements across the periods and down the groups; unique behaviour of the first element in each group.

Group wise study of the p – block elements

Group 16 : Preparation, properties, structures & uses of dioxygen and ozone; Allotropic forms of sulphur; Preparations, properties, structures & uses of sulphur dioxide, sulphuric acid (including its industrial preparation); Structures of oxoacids of sulphur.

Group - 17: Preparation, properties and uses of hydrochloric acid; Trends in the acidic nature of hydrogen halides; Structures of interhalogen compounds and oxides & oxoacids of halogens.

Group – 18: Occurrence and uses of noble gases; Structures of fluorides and oxides of xenon.

UNIT 13: d – and f – Block Elements:

Transition Elements: General introduction, electronic configuration, occurrence and characteristics, general trends in properties of the first row transition elements - physical properties, ionization

enthalpy, oxidation states, atomic radii, colour, catalytic behaviour, magnetic properties, complex formation, interstitial compounds, alloy formation; Preparation, properties and uses of $\text{K}_2\text{Cr}_2\text{O}_7$ and KMnO_4 .

Inner Transition Elements:

Lanthanoids - Electronic configuration, oxidation states, chemical reactivity and lanthanoid contraction.

Actinoids - Electronic configuration and oxidation states.

UNIT 14: Co-ordination compounds:

Introduction to Co-ordination compounds, Werner's theory; ligands, co-ordination number, denticity, chelation; IUPAC nomenclature of mononuclear co-ordination compounds, isomerism; Bonding-Valence bond approach and basic ideas of Crystal field theory, colour and magnetic properties; Importance of co-ordination compounds (in qualitative analysis, extraction of metals and in biological systems).

UNIT 15: Purification and Characterisation of Organic Compounds:

Purification: Crystallization, sublimation, distillation, differential extraction and chromatography - principles and their applications.

Qualitative analysis: Detection of nitrogen, sulphur, phosphorus and halogens.

Quantitative analysis (basic principles only) : Estimation of carbon, hydrogen, nitrogen, halogens, sulphur, phosphorus.

Calculations of empirical formulae and molecular formulae; Numerical problems in organic quantitative analysis.

UNIT 16: Some basic Principles of Organic Chemistry-I:

Tetravalency of carbon; Shapes of simple molecules - hybridization (s and p); Classification of organic compounds based on functional groups: - $\text{C}=\text{C}$ -, - $\text{C}\equiv\text{C}$ - and those containing halogens, oxygen, nitrogen and sulphur; Homologous series; Isomerism - structural and stereoisomerism.

UNIT 17: Some basic Principles of Organic Chemistry-II:

Nomenclature (Trivial and IUPAC)

Covalent bond fission: Homolytic and heterolytic: free radicals, carbocations and carbanions; stability of carbocations and free radicals, electrophiles and nucleophiles.

Electronic displacement in a covalent bond - Inductive effect, electromeric effect, resonance and hyperconjugation.

Common types of organic reactions - Substitution, addition, elimination and rearrangement.

UNIT 18: Hydrocarbons I:

Classification, isomerism, IUPAC nomenclature, general methods of preparation, properties & reactions.

Alkanes - Conformations: Sawhorse and Newman projections (of ethane); Mechanism of halogenations of Alkanes.

Alkenes - Geometrical isomerism; Mechanism of electrophilic addition: addition of hydrogen, halogens, water, hydrogen halides (Markownikoff's and peroxide effect); Ozonolysis, Oxidation and polymerization.

UNIT 19: Hydrocarbons II:

Alkynes - Acidic character; Addition of hydrogen, halogens, water and hydrogen halides; Polymerization.

Aromatic hydrocarbons - Nomenclature, benzene - structure and aromaticity; Mechanism of electrophilic substitution: halogenations, nitration, Friedel – Craft's alkylation and acylation, directive influence of functional group in mono-substituted benzene.

UNIT 20: Organic Compounds Containing Halogens:

General methods of preparation, properties and reactions; Nature of C-X bond; Mechanisms of substitution reactions.

Uses; Environmental effects of chloroform, iodoform, freons and DDT.

UNIT 21: Organic Compounds containing Oxygen-I:

General methods of preparation, properties, reactions and uses.

Alcohols, Phenols and Ethers

Alcohols: Identification of primary, secondary and tertiary alcohols; mechanism of dehydration.

Phenols: Acidic nature, electrophilic substitution reactions: halogenations, nitration and sulphonation, Reimer - Tiemann reaction.

Ethers: Structure.

UNIT 22: Organic Compounds containing Oxygen-II:

General methods of preparation, properties, reactions and uses

Aldehyde and Ketones: Nature of carbonyl group; Nucleophilic addition to $>C=O$ group, relative reactivities of aldehydes and ketones; Important reactions such as – Nucleophilic addition reactions (addition of HCN, NH_3 and its derivatives), Grignard reagent; oxidation; reduction (Wolff Kishner and Clemmensen); acidity of α -hydrogen, aldol condensation, Cannizzaro reaction, Haloform reaction; Chemical tests to distinguish between aldehydes and Ketones.

Carboxylic acids: Acidic strength and factors affecting it.

UNIT 23: Organic compounds containing Nitrogen:

General methods of preparation, properties, reactions and uses.

Amines: Nomenclature, classification, structure, basic character and identification of primary, secondary and tertiary amines and their basic character.

Diazonium Salts: Importance in synthetic organic chemistry.

UNIT 24: Principles Related to Practical Chemistry:

Detection of extra elements (Nitrogen, Sulphur, halogens) in organic compounds; Detection of the following functional groups; hydroxyl (alcoholic and phenolic), carbonyl (aldehyde and ketones) carboxyl, and amino groups in organic compounds.

- The chemistry involved in the preparation of the following:

Inorganic compounds; Mohr's salt, potash alum.

Organic compounds: Acetanilide, p-nitro acetanilide, aniline yellow, iodoform.

The chemistry involved in the titrimetric exercises – Acids, bases, and the use of indicators, oxalic-acid vs $KMnO_4$, Mohr's salt vs $KMnO_4$

Chemical principles involved in the qualitative salt analysis: Cations – Pb^{2+} , Cu^{2+} , Al^{3+} , Fe^{3+} , Zn^{2+} , Ni^{2+} , Ca^{2+} , Ba^{2+} , Mg^{2+} , NH_4^+ Anions- CO_3^{2-} , S^{2-} , SO_4^{2-} , NO_3^- , NO_2^- , Cl^- , Br^- , I^- (Insoluble salts excluded).

Chemical principles involved in the following experiments:

- Enthalpy of solution of $CuSO_4$
- Enthalpy of neutralization of strong acid and strong base.
- Preparation of lyophilic and lyophobic sols.
- Kinetic study of the reaction of iodide ions with hydrogen peroxide at room temperature.

UNIT 25: Biomolecules:

General introduction and importance of biomolecules.

Carbohydrates: Classification: aldoses and ketoses; monosaccharides (glucose and fructose) and constituent monosaccharides of oligosaccharides (sucrose, lactose and maltose) and polysaccharides (starch, cellulose, glycogen).

Proteins: Elementary Idea of amino acids, peptide bond, polypeptides; Proteins: primary, secondary, tertiary and quaternary structure (qualitative idea only), denaturation of proteins, enzymes.

Vitamins: Classification and functions.

Nucleic Acids: Chemical constitution of DNA and RNA. Biological functions of nucleic acids.

PHYSICS

UNIT 1: Physics and Measurement

Physics, technology and society, SI units, Fundamental and derived units. Least count, accuracy and precision of measuring instruments, Errors in measurement, Dimensions of Physical quantities, dimensional analysis and its applications.

UNIT 2: Laws of Motion

Static and Kinetic friction, laws of friction, rolling friction. Dynamics of uniform circular motion: Centripetal force and its applications.

Force and Inertia, Newton's First Law of motion; Momentum, Newton's Second Law of motion; Impulse; Newton's Third Law of motion. Law

of conservation of linear momentum and its applications; equilibrium of concurrent forces.

UNIT 3: Work, Energy and Power

Work done by a constant force and a variable force; kinetic and potential energies, work energy theorem, power.

Potential energy of a spring, conservation of mechanical energy, conservative and non-conservative forces; motion in a vertical circle: Elastic & inelastic collisions in one and two dimensions.

UNIT 4: Rotational Motion

Centre of mass of a two-particle system, Centre of mass of a rigid body; Basic concepts of rotational motion; moment of a force, torque, angular momentum, conservation of angular momentum and its applications;

Moment of inertia, radius of gyration. Values of moments of inertia for simple geometrical objects, parallel and perpendicular axes theorems and their applications. Rigid body rotation, equations of rotational motion. Comparison of linear and rotational motions.

UNIT 5: Kinematics

Frame of reference. Motion in a straight line: Position-time graph, speed and velocity. Uniform and non- uniform motion, average speed and instantaneous velocity, uniformly accelerated motion, velocity-time, position-time graphs, relations for uniformly accelerated motion.

Scalars and Vectors, Vector addition and Subtraction, Zero Vector, Scalar and Vector products, Unit Vector, Resolution of a Vector. Relative Velocity, Motion in a plane, Projectile Motion, Uniform Circular Motion.

UNIT 6: Gravitation

The universal law of gravitation. Acceleration due to gravity and its variation with altitude and depth. Kepler's laws of planetary motion. Gravitational potential energy; gravitational potential. Escape velocity. Orbital velocity of a satellite.

UNIT 7: Oscillations and Waves

Periodic motion - period, frequency, displacement as a function of time. Periodic functions. Simple harmonic motion (S.H.M.) and its equation; phase; Oscillations of a spring - restoring force and force constant; energy in S.H.M. : kinetic and potential energies; Simple pendulum - derivation of expression for its time period;

Resonance; Wave motion; Longitudinal and transverse waves, speed of a wave; Displacement relation for a progressive wave; Principle of superposition of waves, reflection of waves. Standing waves in strings and organ pipes, fundamental mode and harmonics, Beats.

UNIT 8: Properties of Solids and Liquids-I

Elastic behavior, Stress- strain relationship, Hooke's Law, Young's modulus, Bulk modulus, modulus of rigidity. Pressure due to a fluid column; Pascal's law and its applications. Effect of gravity on fluid pressure.

Viscosity, Stokes' law, terminal velocity, streamline and turbulent flow. Critical Velocity. Bernoulli's principle and its applications.

UNIT 9: Properties of Solids and Liquids-II

Surface energy and surface tension, angle of contact, excess of pressure across a curved surface, application of surface tension - drops, bubbles and capillary rise. Heat, temperature, thermal expansion; specific heat capacity, calorimetry; change of state, latent heat. Heat transfer conduction, convection and radiation.

UNIT 10: Thermodynamics

Thermal equilibrium, zeroth law of thermodynamics, concept of temperature. Heat, work and internal energy. First law of thermodynamics. Second law of thermodynamics: reversible and irreversible processes.

UNIT 11: Kinetic Theory of Gases

Equation of state of a perfect gas, work done on compressing a gas. Kinetic theory of gases - assumptions, concept of pressure. Kinetic energy and temperature: rms speed of gas molecules; Degrees of freedom, Law of equipartition of energy, applications to specific heat capacities of gases; Mean free path, Avogadro's number.

UNIT 12: Electrostatics-I

Electric charges: Conservation of charge, Coulomb's law-forces between two point charges, forces between multiple charges; superposition principle and continuous charge distribution.

Electric field: Electric field due to a point charge, Electric field lines, Electric dipole, Electric field due to a dipole, Torque on a dipole in uniform electric field.

Electric flux, Gauss's law and its applications to find field due to infinitely long uniformly charged straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell.

UNIT 13: Electrostatics-II

Electric potential and its calculation for a point charge, electric dipole and system of charges; Equipotential surfaces, Electrical potential energy of a system of two point charges in an electrostatic field.

Conductors and insulators, Dielectrics and electric polarization, capacitor, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, Energy stored in a capacitor.

UNIT 14: Current Electricity

Electric current, Drift velocity, mobility, and their relation with electric current. Ohm's law, Electrical resistance, Resistances of different materials, V-I characteristics of Ohmic and non-ohmic conductors, Electrical energy and power, Electrical resistivity ;Series and parallel combinations of resistors; Temperature dependence of resistance.

Electric Cell and its internal resistance, potential difference and emf of a cell, combination of cells in series and in parallel. Kirchhoff's laws and their applications. Wheatstone bridge, Metre bridge.

UNIT 15: Magnetic Effects of Current and Magnetism

Biot - Savart law and its application to current carrying circular loop. Ampere's law and its applications to infinitely long current carrying straight wire and solenoid. Force on a moving charge in uniform magnetic and electric fields

Cyclotron. Force on a current-carrying conductor in a uniform magnetic field. Force between two parallel current-carrying conductors- definition of ampere, torque experienced by a current loop in uniform magnetic field; Moving coil galvanometer, its current sensitivity and conversion to ammeter and voltmeter. Current loop as a magnetic dipole and its magnetic dipole moment.

UNIT 16: Magnetic Effects of Current and Magnetism

Current loop as a magnetic dipole and its magnetic dipole moment. Bar magnet as an equivalent solenoid, magnetic field lines; Magnetic field due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis. Torque on a magnetic dipole in a uniform magnetic field. Para-, dia- and ferromagnetic substances with examples, the effect of temperature on magnetic properties.

UNIT 17: Atoms and Nuclei

Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model, energy levels, hydrogen spectrum. Composition and size of nucleus, atomic masses.

Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number, nuclear fission and fusion.

UNIT 18: Dual Nature of Matter and Radiation

Dual nature of radiation. Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation; particle nature of light. Matter waves-wave nature of particle, de Broglie relation.

UNIT 19: Optics-I

Reflection of light, spherical mirrors, mirror formula. Refraction of light at plane and spherical surfaces, thin lens formula, and lens maker formula. Total internal reflection and its applications. Magnification. Power of a Lens. Combination of thin lenses in contact. Refraction of light through a prism. Microscope and Astronomical Telescope (reflecting and refracting) and their magnifying powers.

UNIT 20: Optics-II

Wave Optics: wavefront and Huygens' principle, Laws of reflection and refraction using Huygen's principle. Interference, Young's double slit experiment and expression for fringe width. Diffraction due to a single slit, width of central maximum. Resolving power of microscopes and astronomical telescopes, Polarization, plane polarized light; Brewster's law, uses of plane polarized light and Polaroids.

UNIT 21: Electromagnetic Induction and Alternating Currents

Electromagnetic induction: Faraday's law. Induced emf and current: Lenz's Law, Eddy currents. Self and mutual inductance. Alternating currents, peak and RMS value of alternating current/ voltage: reactance and impedance: LCR series circuit, resonance: power in AC circuits, wattless current. AC generator and transformer.

UNIT 22: Electronic Devices-I

Semiconductors; semiconductor diode: I-V characteristics in forward and reverse bias; diode as a rectifier; I-V characteristics of LED, photodiode, solar cell and Zener diode; Zener diode as a voltage regulator.

UNIT 23: Electronic Devices-II

Logic gates (OR, AND, NOT, NAND and NOR)

UNIT 24: Electromagnetic Waves

Displacement current. Electromagnetic waves and their characteristics, Transverse nature of electromagnetic waves, Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet. X-rays. Gamma rays), Applications of e.m. waves.

UNIT 25: Experimental Skills:

Familiarity with the basic approach and observations of the experiments and activities:

1. Vernier calipers -its use to measure the internal and external diameter and depth of a vessel.
2. Screw gauge - its use to determine the thickness/ diameter of thin sheet/wire.
3. Simple Pendulum - dissipation of energy by plotting a graph between the square of amplitude and time.
4. Metre Scale - the mass of a given object by the principle of moments.
5. Young's modulus of elasticity of the material of a metallic wire.
6. Surface tension of water by capillary rise and effect of detergents,
7. Co-efficient of Viscosity of a given viscous liquid by measuring the terminal velocity of a given spherical body,
8. Speed of sound in air at room temperature using a resonance tube,
9. Specific heat capacity of a given (i) solid and (ii) liquid by method of mixtures.
10. The resistivity of the material of a given wire using a metre bridge.
11. The resistance of a given wire using Ohm's law.
12. Resistance and figure of merit of a galvanometer by half deflection method.
13. The focal length of; (i) Convex mirror (ii) Concave mirror, and (iii) Convex lens, using the parallax method.
14. The plot of the angle of deviation vs angle of incidence for a triangular prism.
15. The refractive index of a glass slab using a travelling microscope.
16. Characteristic curves of a p-n junction diode in forward and reverse bias.
17. Characteristic curves of a Zener diode and finding reverse breakdown voltage.
18. Identification of Diode. LED, Resistor. A capacitor from a mixed collection of such items

MATHEMATICS

UNIT 1:

Sets: Sets and their representation; Union, intersection and complement of sets and their algebraic properties; Power set.

Relations: Relation, Types of relations, equivalence relations.

UNIT 2:

Function, Limit and Continuity: One-one, into and onto functions, composition of functions; Real valued functions, algebra of functions, polynomials, rational, trigonometric, logarithmic and exponential functions, inverse functions. Graphs of simple functions. Limits, continuity and differentiability.

UNIT 3:

Complex Numbers: Complex numbers as ordered pairs of reals, Representation of complex numbers in the form $a+ib$ and their representation in a plane, Argand diagram, algebra of complex numbers, modulus and argument (or amplitude) of a complex number.

UNIT 4:

Quadratic Equations: Quadratic equations in real and complex number system and their solutions. Relation between roots and coefficients, nature of roots, formation of quadratic equations with given roots.

UNIT 5:

Sequences and Series: Arithmetic and Geometric progressions, insertion of arithmetic, geometric means between two given numbers. Relation between A.M. and G.M.

UNIT 6:

Matrices: Matrices, algebra of matrices, types of matrices, matrices of order two and three; Adjoint; transpose; symmetric and skew symmetric matrices.

UNIT 7:

Determinants: Properties of determinants, evaluation of determinants, area of triangles using determinants. Evaluation of inverse of a square matrix using determinants and elementary transformations, Test of consistency and solution of simultaneous linear equations in two or three variables using determinants.

UNIT 8:

Vector Algebra: p, addition of vectors, components of a vector in two dimensions and three dimensional space, scalar and vector products, scalar and vector triple product.

UNIT 9:

Permutations: Fundamental principle of counting, permutation as an arrangement. Meaning of $P(n, r)$, simple applications.

UNIT 10:

Combinations: Combination as selection, Meaning of $C(n, r)$, simple applications.

UNIT 11:

Binomial theorem and its simple applications: Binomial theorem for a positive integral index, general term and middle term.

UNIT 12:

Derivatives: Differentiation of sum, difference, product and quotient of two functions; Differentiation of trigonometric, inverse trigonometric, logarithmic, exponential, composite and implicit functions; derivatives of order upto two.

UNIT 13:

Applications of derivatives: Rate of change of quantities, monotonic increasing and decreasing functions, Maxima and minima of functions of one variable.

UNIT 14:

Integral calculus (Part 1): Integral as an anti derivative. Fundamental integrals involving algebraic, trigonometric, exponential and logarithmic functions. Integration by substitution, by parts and by partial fractions. Integration using trigonometric identities.

UNIT 15:

Integral calculus (Part 2): Evaluation of simple integrals of following type:

$$\int \frac{dx}{x^2 \pm a^2}, \int \frac{dx}{\sqrt{x^2 \pm a^2}}, \int \frac{dx}{a^2 - x^2}, \int \frac{dx}{\sqrt{a^2 - x^2}},$$

$$\int \frac{dx}{ax^2 + bx + c}, \int \frac{dx}{\sqrt{ax^2 + bx + c}}, \int \frac{(px+q)dx}{ax^2 + bx + c},$$

$$\int \frac{(px+q)dx}{\sqrt{ax^2 + bx + c}}, \int \sqrt{a^2 \pm x^2} dx, \int \sqrt{x^2 - a^2} dx$$

UNIT 16:

Definite Integrals: Properties of definite integrals. Evaluation of definite integrals, determining areas of the regions bounded by simple curves in standard form.

UNIT 17:

Differential Equations: Ordinary differential equations, their order and degree. Formation of differential equations. Solution of differential equations by the method of separation of variables, solution of homogeneous and linear differential equations of the type:

$$\frac{dy}{dx} + p(x)y = q(x)$$

UNIT 18:

Coordinate Geometry: Cartesian system of rectangular coordinates in a plane, distance formula, section formula, locus and its equation,

translation of axes, slope of a line, parallel and perpendicular lines, intercepts of a line on the coordinate axes.

UNIT 19:

Straight lines: Various forms of equations of a line, intersection of lines, angles between two lines, conditions for concurrence of three lines, distance of a point from a line, coordinates of centroid, orthocentre and circumcentre of a triangle.

UNIT 20:

Circles: Standard form of equation of a circle, general form of the equation of a circle, its radius and centre, equation of a circle when the end points of a diameter are given, points of intersection of a line and a circle with the centre at the origin.

UNIT 21:

Conic sections: Sections of cones, equations of conic sections (parabola, ellipse and hyperbola) in standard forms, condition for $y = mx + c$ to be a tangent and point (s) of tangency.

UNIT 22:

Three Dimensional Geometry (Part 1): Coordinates of a point in space, distance between two points, section formula, direction ratios

and direction cosines, angle between two intersecting lines. Skew lines, the shortest distance between them and its equation. Equations of a line in different forms.

UNIT 23:

Statistics and Probability: Measures of Dispersion: Calculation of mean, median, mode of grouped and ungrouped data calculation of standard deviation, variance and mean deviation for grouped and ungrouped data.

Probability: Probability of an event, addition and multiplication theorems of probability, Baye's theorem, probability distribution of a random variate..

UNIT 24:

Trigonometry: Trigonometrical Identities and equations, Trigonometrical functions;.

UNIT 25:

Inverse Trigonometric Functions: Definition, domain, range, elementary properties of inverse trigonometric functions, Heights and distances.

BIOLOGY

UNIT 1: Diversity & Structural Organisation

What is living? Biodiversity; Need for classification; Three domains of life; Taxonomy & Systematics; Concept of species and taxonomical hierarchy; Binomial nomenclature; Tools for study of Taxonomy - Museums, Zoos, Herbaria, Botanical gardens.

Five kingdom classification: Salient features and classification of Monera; Protista and Fungi into major groups; Lichens; Viruses and Viroids, Salient features and classification of plants into major groups- Algae, Bryophytes, Pteridophytes, Gymnosperms and Angiosperms; Angiosperms- classification up to class, characteristic features and examples, Salient features and classification of animals-nonchordate up to phyla level and chordate up to classes level.

Structural Organisation in Animals and Plants: Morphology and modifications; Tissues; Anatomy and functions of different parts of flowering plants: Root, stem, leaf, inflorescence- cymose and racemose, flower, fruit and seed, Animal tissues; Morphology, anatomy and functions of different systems (digestive, circulatory, respiratory, nervous and reproductive) of an insect (cockroach).

Cell Structure and Function : Cell division - Cell theory and cell as the basic Unit of life; Structure of prokaryotic and eukaryotic cell; Plant cell and animal cell; Cell envelope, cell membrane, cell wall; Cell organelles-structure and function; Endomembrane system-endoplasmic reticulum, Golgi bodies, lysosomes, vacuoles; mitochondria, ribosomes, plastids, micro bodies; Cytoskeleton, cilia, flagella, centrioles (ultra structure and function); Nucleus-nuclear membrane, chromatin, nucleolus. Chemical constituents of living cells: Biomolecules-structure and function of proteins, carbohydrates, lipids, nucleic acids; Enzymes-types, properties, enzyme action;

Cell division: Cell cycle, mitosis, meiosis and their significance.

UNIT 2: Plant Physiology

Transport in plants: Movement of water, gases and nutrients; Cell to cell transport-Diffusion, facilitated diffusion, active transport; Plant – water relations – Imbibition, water potential, osmosis, plasmolysis; Long distance transport of water – Absorption, apoplast, symplast, transpiration pull, root pressure and guttation; Transpiration-Opening and closing of stomata; Uptake and translocation of mineral nutrients-Transport of food, Phloem transport, Mass flow hypothesis; Diffusion of gases.

Mineral Nutrition: Essential minerals, macro and micronutrients and their role; Deficiency symptoms; Mineral toxicity; Elementary idea of Hydroponics as a method to study mineral nutrition; Nitrogen metabolism-Nitrogen cycle, Biological nitrogen Fixation.

Photosynthesis: Photosynthesis as a means of Autotrophic nutrition; Site of photosynthesis take place; pigments involved in Photosynthesis (Elementary idea); Photochemical and biosynthetic phases of photosynthesis; Cyclic and non cyclic and photophosphorylation; Chemiosmotic hypothesis; Photorespiration C₃ and C₄ pathways; Factors affecting photosynthesis.

Respiration: Exchange gases; Cellular respiration- glycolysis, fermentation (anaerobic), TCA cycle and electron transport system (aerobic); Energy relations- Number of ATP molecules generated; Amphibolic pathways; Respiratory quotient.

Plant Growth and Development: Seed germination; Phases of Plant growth and plant growth rate; Conditions of growth; Plant growth and development: Seed germination; Conditions of growth;

Differentiation, dedifferentiation and redifferentiation; Sequence of developmental process in a plant cell; Growth regulators-auxin, gibberellin, cytokinin, ethylene, ABA; Seed dormancy; Vernalisation; Photoperiodism.

UNIT 3: Human Physiology

Digestion and Absorption: Alimentary canal and digestive glands; Role of digestive enzymes and gastrointestinal hormones; Peristalsis, digestion, absorption and assimilation of proteins, carbohydrates and fats; Caloric value of proteins, carbohydrates and fats; Egestion; Nutritional and digestive disorders – PEM, indigestion, constipation, vomiting, jaundice, diarrhea.

Breathing and Respiration: Respiratory organs in animals; Respiratory system in humans; Mechanism of breathing and its regulation in humans- Exchange of gases, transport of gases and regulation of respiration Respiratory volumes; Disorders related to respiration-Asthma, Emphysema, Occupational respiratory disorders.

Body Fluids and Circulation: Composition of blood, blood groups, coagulation of blood; Composition of lymph and its function; Human circulatory system-Structure of human heart and blood vessels; Cardiac cycle, cardiac output, ECG, Double circulation; Regulation of cardiac activity; Disorders of circulatory system-Hypertension, Coronary artery disease, Angina pectoris, Heart failure.

Excretory products and their elimination: Modes of excretion-Ammonotelism, ureotelism, uricotelism; Human excretory system-structure and Function; Urine formation, Osmoregulation; Regulation of kidney function-Renin-angiotensin, Atrial Natriuretic Factor, ADH and Diabetes insipidus; Role of other organs in excretion; Disorders; Uraemia, Renal failure, Renal calculi, Nephritis; Dialysis and artificial kidney.

Locomotion and Movement: Types of movement- ciliary, flagellar, muscular; Skeletal muscle- contractile proteins and muscle contraction; Skeletal system and its functions; Joints; Disorders of muscular and skeletal system-Myasthenia gravis, Tetany, Muscular dystrophy, Arthritis, Osteoporosis, Gout.

Neural control and coordination: Neuron and nerves; Nervous system in humans- central nervous system, peripheral nervous system and visceral nervous system; Generation and conduction of nerve impulse; Reflex action; Sense organs; Elementary structure and function of eye and ear.

Chemical coordination and regulation: Endocrine glands and hormones; Human endocrine system-Hypothalamus, Pituitary, Pineal, Thyroid, Parathyroid, Adrenal, Pancreas, Gonads; Mechanism of hormone action; Role of hormones as messengers and regulators, Hypo- and hyperactivity and related disorders (Common disorders e.g. Dwarfism, Acromegaly, Cretinism, goiter, exophthalmic goiter, diabetes, Addison's disease).

UNIT 4: Reproduction, Genetics and Evolution

Reproduction in Organisms: Reproduction, a characteristic feature of all organisms for continuation of species; Modes of reproduction

– Asexual and sexual; Asexual reproduction; Modes-Binary fission, sporulation, budding, gemmule, fragmentation; vegetative propagation in plants.

Sexual Reproduction in Flowering Plants: Flower structure; Development of male and female gametophytes; Pollination-types, agencies and examples; Outbreeding devices; Pollen-Pistil interaction; Double fertilization; Post fertilization events-Development of endosperm and embryo, Development of seed and formation of fruit; Special modes-apomixis, parthenocarp, polyembryony; Significance of seed and fruit formation.

Human Reproduction: Male and female reproductive systems; Microscopic anatomy of testis and ovary; Gametogenesis-spermatogenesis & oogenesis; Menstrual cycle; Fertilisation, embryo development upto blastocyst formation, implantation; Pregnancy and placenta formation; Parturition; Lactation.

Reproductive health: Need for reproductive health and prevention of sexually transmitted diseases (STD); Birth control-Need and Methods, Contraception and Medical Termination of Pregnancy (MTP); Amniocentesis; Infertility and assisted reproductive technologies – IVF, ZIFT, GIFT.

Genetics and Evolution: Heredity and variation: Mendelian Inheritance; Deviations from Mendelism- Incomplete dominance, Co-dominance, Multiple alleles and Inheritance of blood groups, Pleiotropy; Elementary idea of polygenic inheritance; Chromosome theory of inheritance; Chromosomes and genes; Sex determination In humans, birds, honey bee; Linkage and crossing over; Sex linked inheritance-Haemophilia, Colour blindness; Mendelian disorders in humans-Thalassemia; Chromosomal disorders in humans; Down's syndrome, Turner's and Klinefelter's syndromes.

Molecular basis of Inheritance: Search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging; DNA replication; Central dogma; Transcription, genetic code, translation; Gene expression and regulation-Lac Operon; Genome and human genome project; DNA finger printing.

Evolution: Origin of life; Biological evolution and evidences for biological evolution from Paleontology, comparative anatomy, embryology and molecular evidence; Darwin's contribution, Modern Synthetic theory of Evolution; Mechanism of evolution-Variation (Mutation and Recombination) and Natural Selection with examples, types of natural selection; Gene flow and genetic drift; Hardy-Weinberg's principle; Adaptive Radiation; Human evolution.

UNIT 5: Biology, Biotechnology and Human Welfare

Health and Disease: Pathogens; parasites causing human diseases (Malaria, Filariasis, Ascariasis Typhoid, Pneumonia, common cold, amoebiasis, ring worm); Basic concepts of immunology-vaccines; Cancer, HIV and AIDS; Adolescence, drug and alcohol abuse.

Improvement in food production: Plant breeding, tissue culture, single cell protein, Biofortification; Apiculture and Animal husbandry.

Microbes in human welfare: In household food processing, industrial production, sewage treatment, energy generation and as biocontrol agents and biofertilizers.

Biotechnology and its Applications: Principles and process of Biotechnology: Genetic engineering (Recombinant DNA technology).

Application of Biotechnology in health and agriculture: Human insulin and vaccine production, gene therapy; Genetically modified organisms-Bt crops; Transgenic Animals; Biosafety issues-Biopiracy and patents.

UNIT 6: Ecology and Environment

Organisms and environment: Habitat and niche; Population and ecological adaptations; Population interactions-mutualism, competition, predation, parasitism; Population attributes-growth, birth rate and death rate, age distribution.

Ecosystem: Patterns, components; productivity and decomposition;

Energy flow; Pyramids of number, biomass, energy; Nutrient cycling (carbon and phosphorous); Ecological succession; Ecological Services-Carbon fixation, pollination, oxygen release.

Biodiversity and its conservation: Concept of Biodiversity; Patterns of Biodiversity; Importance of Biodiversity; Loss of Biodiversity; Biodiversity conservation; Hotspots, endangered organisms, extinction, Red Data Book, biosphere reserves, National parks and sanctuaries.

Environmental issues: Air pollution and its control; Water pollution and its control; Agrochemicals and their effects; Solid waste management; Radioactive waste management; Greenhouse effect and global warming; Ozone depletion; Deforestation; Any three case studies as success stories addressing environmental issues.

ENGLISH

Grammar: Parts of Speech- Noun, Pronoun, Adjective, Adverb, Verb, Preposition, Conjunctions, Interjection; Tenses- Present, Past and Future Tense in Active and Passive Form; Modal Verbs- Can, Could, May, Might, Should, Will, Would, Punctuation, Independent and dependent clauses, sentence and its types, Determiners;

Associative Language Skills: Vocabulary-Antonyms, Synonyms, Homonyms, Homographs, One word substitution, Word analogies, Idioms and Phrases;

Common Errors- Sentence correction and Error finding exercises;

Comprehension Passages- Closed and Open Paragraphs, Identifying Key Ideas or Theme.

**ANNEXURE - III
(SAMPLE QUESTIONS OF LPUNEST-2025)**

CHEMISTRY

- Question 1. Equivalent conductance of 1M CH_3COOH is $10 \text{ ohm}^{-1} \text{ cm}^2 \text{ equiv}^{-1}$ and that at infinite dilution is $200 \text{ ohm}^{-1} \text{ cm}^2 \text{ equiv}^{-1}$. Hence the % ionization of CH_3COOH is _____.
- Question 2. The vapour pressure of a pure solvent at 50°C is 400mm. If 0.2 mole of a non volatile solute is added to 1 mole of the solvent the vapour pressure of that solution at 50°C is nearly
- A) 400mm
B) 200mm
C) 300mm
D) 333mm
- Question 3. What is the degree of hardness of a sample of water containing 24mg of MgSO_4 (molecular mass 120) per kg of water?
- A) 10ppm
B) 15ppm
C) 25ppm
D) 20ppm
- Question 4. Chemical (X) is used for removal of temporary hardness of water. (X) reacts with Na_2CO_3 to produce caustic soda. When CO_2 is bubbled through (X), it turns cloudy. What is the chemical formula of (X)?
- A) Ca(OH)_2
B) CaO
C) CaCO_3
D) $\text{Ca(HCO}_3)_2$
- Question 5. The heat of combustion of carbon and carbon monoxide are -393.5 and $-283.5 \text{ kJ mol}^{-1}$, respectively. The heat of formation (in kJ) of carbon monoxide per mole is
- A) 676.5
B) -676.5
C) -110.5
D) 110.5

PHYSICS

- Question1. A solid sphere and a solid cylinder of same mass are rolled down on two inclined planes of heights h_1 & h_2 . If at the bottom of the plane of two objects have same linear velocities, then ratio of h_1 to h_2 is
- A) 2:3
B) 7:5
C) 14:15
D) 15:14
- Question 2. The initial velocity of a particle is u [at $t=0$] and the acceleration f is given by at . Which of the following relation is valid?
- A) $v = u + at^2$
B) $v = u + at^2/2$
C) $v = u + at$
D) $v = u$
- Question 3. At which temperature, the centigrade and Fahrenheit scales are equal?
- A) 40°
B) -40°
C) 37°
D) -80°
- Question 4. The rms velocity of H_2 molecules at 27°C is 1930 m/s. The rms velocity of O_2 molecules at 1200 K will be _____.
- Question 5. An AC series circuit contains 4Ω resistance and 3Ω inductive reactance. What is the impedance of the circuit?
- A) 1Ω
B) 5Ω
C) 7Ω
D) $7/\sqrt{2} \Omega$

MATHEMATICS

- Question 1: The algebraic expression $x^2 + \sqrt{5}x + 9$ is a
- A) Polynomial
B) Not a Polynomial
C) Integer
D) None of these
- Question 2: The shadow of a tree 6m high is $2\sqrt{3}$ m. The angle of elevation of the sun will be
- A) 60°
B) 30°
C) 75°
D) None of these
- Question 3: Volume of the sphere whose radius is 1cm is
- (A) 1 cm^3
B) 8.8 cm^3
C) 14.4 cm^3
D) None of these

- Question 4: A coin is tossed once what is the probability of getting tail
 (A) $\frac{1}{2}$
 B) 1

- C) 2
 D) None of these
 Question 5: The 12th term of A.P. 5, 8, 11,..... is _____.

BIOLOGY

- Question 1. Conversion of glucose to lactate takes place in
 A) Aerobic condition
 B) Anaerobic condition
 C) Both Aerobic condition and Anaerobic condition
 D) None of these
 Question 2. In respiration, the energy not captured by ATP is
 A) Transferred to water
 B) Converted to heat
 C) Released with CO₂
 D) Transferred to organic molecules
 Question 3. The phenomena which cools the surface of leaves is
 A) Guttation
 B) Translocation
 C) Transamination

- D) Transpiration
 Question 4. The only movable bone in the skull is
 A) Maxilla
 B) Frontoparietal
 C) Mandible
 D) Nasal
 Question 5. Which of these pests attack mustard?
 A) Pod borer
 B) Aphids
 C) White grub
 D) Pyrilla

ENGLISH

- Question 1. What is the synonym of Adversity?
 A) Failure
 B) Misfortune
 C) Helplessness
 D) Crisis
 Question 2. Find the correct spelling.
 A) Pugnacios
 B) Pugnacious
 C) Pagnacous
 D) Pugnashous
 Question 3. Choose the correct answer. Your dreams _____ if you try.
 A) Accomplishes
 B) will be accomplished
 C) is accomplishing

- D) has accomplished
 Question 4. Which of these words is closest in meaning to the word provided?
 "educe"
 A) demand
 B) elicit
 C) ideal
 D) unlawful
 Question 5. Choose one word for the following statement:
 Government of the people, by the people and for the people
 A) Democracy
 B) Autocracy
 C) Socialism
 D) Anarchy

Annexure - IV
[Reservation Category (Only for Punjab Applicants)]

S. No.	Category
A	Scheduled Castes / Scheduled Tribes
B	Backward Classes
C	Border Areas / Backward Areas
D	Sports Persons
E	Children / Grand Children of Freedom Fighters
F	Disabled Persons (Blinds, Deaf & Dumb, Other Handicapped)
G	Children / Widows of defence personnel killed or disabled to the extent of 50% or more in action, wards of gallantry awardees children of serving defence personnel/ ex-servicemen

S. No.	Category
H	Children / Widows of Para-military forces personnel, Punjab Police, RAP and Punjab Home guards killed or disabled in action to the extent of 50% or more; and children of paramilitary force personnel / ex-paramilitary forces personnel, wards of Punjab Policemen decorated with gallantry medals
I	Children of November 1984 Riots affected persons
J	Single Girl Child
K	Reservation for T-Sunami affected persons or Student suffering from Cancer/AIDS/Thalassemia

Annexure - V
(Codes of the School Education Boards of Class X & XII)

BOARD	CODE
Andhra Pradesh Board of Intermediate Education	01
Assam Higher Secondary Education Council	02
Bihar Intermediate Education Council	03
Central Board of Secondary Education	04
Chhattisgarh Madhyamik Shiksha Mandal	05
Council for the Indian School Certificate Examinations	06
Goa Board of Secondary and Higher Secondary Education	07
Gujarat Secondary Education Board	08
Haryana Board of Education	09
H P Board of School Education	10
J & K State Board of School Education	11
Jharkhand Academy Council	12
Karnataka Board of Pre-University Education	13
Kerala Board of Public Examinations	14
Madhya Pradesh Board of Secondary Education	15
Maharashtra State Board of Secondary and Higher Secondary Education	16

BOARD	CODE
Manipur Council of Higher Secondary Education	17
Meghalaya Board of Secondary Education	18
Mizoram Board of School Education	19
Nagaland Board of School Education	20
Odisha Council of Higher Secondary Education	21
Punjab School Education Board	22
Rajasthan Board of Secondary Education	23
Tamil Nadu Board of Higher Secondary Education	24
Telangana Board of Secondary Education	25
Tripura Board of Secondary Education	26
U.P. Board of High School & Intermediate Education	27
Uttaranchal Shiksha Evam Pariksha Parishad	28
West Bengal Council of Higher Secondary Education	29
Others [IB, Cambridge etc.]	30

Annexure - VII
Filled SAMPLE Application form

 LOVELY PROFESSIONAL UNIVERSITY <i>Transforming Education Transforming India</i>	NATIONAL ENTRANCE & SCHOLARSHIP TEST LPUNET	 NAAC A++ Application Form No.
Scratch here for Unique OMR Code		
Write in Black ball point pen only and use CAPITAL LETTERS. Do not use Pencil. Ensure that you tick (✓) the right option. Write correct Email ID. INCOMPLETE APPLICATION IN ANY RESPECT SHALL NOT BE CONSIDERED.		
1. NAME OF THE CANDIDATE (As per your X Standard Certificate) SAVREENA		
2. DATE OF BIRTH 10 01 03	3. EXAM MODE Remotely Proctored ☒ Exam Centre ☐	If Exam Centre, a. EXAM STATE b. EXAM CITY
4. Email ID SAVREENA5@GMAIL.COM		
5. MOBILE NO. 09732905651	6. GENDER ☐ Male ☒ Female ☐ Transgender	7. CATEGORY ☒ GENERAL/OC ☐ ST ☐ OBC/BC ☐ OTHERS ☐ SC
8. AADHAR CARD NUMBER 085923695511		
9. YOUR COMPLETE POSTAL ADDRESS INCLUDING YOUR FULL NAME Name: SAVREENA Add. Line 1: St. 9A Add. Line 2: Near civil lines City: Phagwara District: Kapurthala State: Punjab Alt. Mobile: 9888012302 Pincode: 144401 Whatsapp No: 9234512302 Do you have an APAAR/ ABC ID? Yes ☐ No ☒ APAAR/ ABC ID (if yes) _____		
10. PARENT'S DETAILS Father's Name: SUKHWINDER Mother's Name: ANCHAR RANI Father's E-mail ID: SUKHI420@GMAIL.COM Father's Mobile No: 09852042010 Mother's E-mail ID: RANI480@GMAIL.COM Mother's Mobile No: 09842048050		
11. TEST APPLYING FOR [Tick (✓) only one] (For applicable programmes, check Seat Preference Form) Undergraduate Programmes ☐ LPUNET (B.Tech.) ☐ LPUNET (UG Hotel Management) ☐ LPUNET (UG Design) ☐ LPUNET (Integrated Law) ☒ LPUNET (Under Graduate) ☐ LPUNET (LET) ☐ LPUNET (Diploma) ☐ LPUNET (UG Agriculture, Pharmacy & Physiotherapy) Post Graduate Programmes ☐ LPUNET (MBA) ☐ LPUNET (PG - Agriculture) ☐ LPUNET (PG - Pharmacy) ☐ LPUNET (M.Tech.) ☐ LPUNET (Post Graduate)		

12. DETAILS OF QUALIFYING EXAM PASSED/ APPEARING FOR:
(Candidate must furnish this information, otherwise application will be rejected)

Qualification 12th Course Name Commerce Percentage/ Grade/ CGPA 78.4

Reg No./ Roll No. (if already allotted) 20230507 Board (if applicable) (For code refer Annexure V)

Name of College/ University/ School SDKML SEN SEC SCHOOL

City PHAGWARA

District KAPURTHALA

State PUNJAB Pincode 144401

Year of Commencement 2022 Year of Passing 2024 Qualification from (Tick ☒): India ☐ Abroad ☐

13. DETAILS OF MATRICULATION (CLASS 10TH) QUALIFICATION PASSED:
(Candidate must furnish this information, otherwise application will be rejected)

Percentage/ Grade/ CGPA 75.4

Reg No./ Roll No. (Mandatory) 10120678 Board (For code refer Annexure V)

Name of School SARTAJ PUBLIC SCHOOL

City PHAGWARA

District KAPURTHALA

State PUNJAB Pincode 144401

Year of Commencement 2020 Year of Passing 2022 Qualification from (Tick ☒): India ☐ Abroad ☐

14. SLOT BOOKING (To be booked by) [According to your preference (Remotely Proctored/ Exam Centre)]

University ☒ Applicant ☐

15. CHOICE OF EXAM DATE
(Applicable only if opted for University option in Point No. 14)

DAY	MONTH	YEAR	DAY	MONTH	YEAR		
1st	07	02	25	4th	14	02	25
2nd	10	02	25	5th	17	02	25
3rd	13	02	25				

16. RESERVATION CATEGORY
(only for Punjab Applicants)

J
(For Category details, refer point no. 18)

17. Stay connected with LPU! Tick (☒) your active platforms and provide your ID for updates. (Mention your user name)

☒ Sauveena ☐ Sauveena56

☐ ☐

18. DECLARATION

1. I solemnly and sincerely affirm that I am an Indian National and that all particulars furnished by me in this application form are true and correct. I have not concealed any information. However, in the event of any information being found to be incorrect, fraudulent or untrue, either before or after the examination or after my admission to the programme, I understand that I am liable to face criminal prosecution and the management can claim all authority to cancel my candidature / selection or admission as the case may be and I would have to forego my seat and the fees.

2. I authorize Lovely Professional University to contact me with updates and notifications via Email, SMS, WhatsApp and Call. This will override the registry on DND / NDNC.

Date: 01-Feb-2025

Place: Phagwara

Sauveena
Signature of Candidate

Note: Photograph for verification purpose will be clicked during test and verified at the time of admission.

In case you do not want to send the form to us in hard copy, follow these instructions:-

- Fill the online application form at www.lpu.in
- When prompted for payment, enter the OMR sheet no. and Unique OMR code (given on OMR sheet).
- Submit the complete application form.
- Save and print the copy of application form for your reference.
- Memorize the generated password as it is your password for accessing the date and slot booking module.

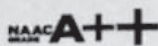
Paste your photograph here

19. [Reservation Category (Only for Punjab Applicants)]

S. No.	Category
A	Border Areas / Backward Areas
B	Disabled Persons (Blinds, Deaf & Dumb, Other Handicapped)
C	Sports Persons
D	Children / Widows of defence personnel killed or disabled to the extent of 50% or more
E	Children / Widows of Para-military forces personnel, Punjab Police, RAP and Punjab Home guards killed or disabled in action to the extent of 50% or more
F	Children of November 1984 Riots affected persons
G	Children / Grand Children of Freedom Fighters
H	Single Girl Child
I	Reservation for T-Sunami affected persons or Student suffering from Cancer/AIDS/Thalassemia
J	Others

Annexure - VIII

Filled SAMPLE SEAT PREFERENCE FORM



Application Form No. _____
(Copy from CMR Sheet)

SEAT PREFERENCE FORM

[For Under Graduate Programmes]

1. NAME OF THE CANDIDATE (As per your 10th Standard Certificate)

SAVREENA

2. PREFERENCE TABLE

Rank the programme/ stream in the order of your preference number in the table given below:

LPUNET (B.TECH.)		
Sr. No.	Programme	Preference No.
1.	B.Tech. (Computer Science and Engineering)	4
2.	B.Tech. (Hons.) (Computer Science and Engineering - Cyber Security and Block Chain in tie-up with Comptia)	3
3.	B.Tech. (Hons.) (Computer Science and Engineering - Data Science & Data Engineering in tie-up with Transorg Analytics)	2
4.	B.Tech. (Hons.) (Computer Science and Engineering - Full Stack Software Development in tie-up with GeeksforGeeks)	1
5.	B.Tech. (Computer Science and Engineering - Big Data Analytics in tie-up with IBM)	11
6.	B.Tech. (Computer Science and Engineering - Software Product Engineering in tie-up with KALVIUM)	16
7.	B.Tech. (Computer Science and Engineering - User Experience (UX)/ User Interface (UI) in tie-up with ImaginXP)	12
8.	B.Tech. (Computer Science and Engineering - Machine Intelligence and Data Analytics in tie-up with Quantiphi)	35
9.	B.Tech. (CSE - Artificial Intelligence and Machine Learning)	5
10.	B.Tech. (Computer Science and Engg. - Data Science with ML in tie-up with UpGrad)	6
11.	B.Tech. (Computer Science and Engineering - DevOps (Software Development and IT Operations) in tie-up with Xebia)	13
12.	B.Tech. (Computer Science and Engineering - Generative Artificial Intelligence in tie-up with Microsoft)	7
13.	B.Tech. (Computer Science and Engg. - Cloud Computing in tie-up with Google Cloud)	8
14.	B.Tech. (Computer Science and Engineering - AI and Data Engineering in tie-up with Futureense Technologies)	15
15.	B.Tech. (Computer Science and Engineering) [2+2 with International Credit Transfer Option]	14
16.	B.Tech. (Electronics and Communication Engineering)	17
17.	B.Tech. (Electronics and Communication Engineering) [2+2 with International Credit Transfer Option]	19
18.	B.Tech. (Information Technology)	20
19.	B.Tech. (Electrical Engineering)	9
20.	B.Tech. (Mechanical Engineering)	10
21.	B.Tech. (Mechanical engineering) [2+2 with International Credit Transfer Option]	22
22.	B.Tech. (Electrical and Electronics Engineering)	23
23.	B.Tech. (Civil Engineering)	18
24.	B.Tech. (Civil Engineering) [2+2 with International Credit Transfer Option]	21
25.	B.Tech. (ME - Mechatronics)	24
26.	B.Tech. (ME - Mechatronics) [2+2 with International Credit Transfer Option]	25
27.	B.Tech. (Biotechnology)	26

28.	B.Tech. (Biotechnology) [2+2 with International Credit Transfer Option]	27
29.	B.Tech. (Robotics and Automation)	33
30.	B.Tech. (Automobile Engineering)	28
31.	B.Tech. (Automobile Engineering) [2+2 with International Credit Transfer Option]	29
32.	B.Tech. (Food Technology)	32
33.	B.Tech. (Biomedical Engineering)	34
34.	B.Tech. (Aerospace Engineering)	31
35.	B.Tech. (Chemical Engineering)	30

LPUNET (UG AGRICULTURE, PHARMACY AND PHYSIOTHERAPY)		
Sr. No.	Programme	Preference No.
1.	B.Sc. (Hons.) Agriculture	
2.	B.Pharm.	
3.	Bachelor of Physiotherapy (BPT)	

LPUNET (UG DESIGN)					
Sr. No.	Programme	Preference No.	Sr. No.	Programme	Preference No.
1.	B.Sc. (Design - Interior and Furniture)		2.	B.Design (User Experience)	
3.	B.Sc. (Design - Fashion)		4.	B.Design (Fashion)	
5.	B.Sc. (Design - Multimedia)		6.	B.Design (Fashion) [2+2 with international credit transfer option]	
7.	B.Sc. (Design - Gaming)		8.	B.Design (Multimedia)	
9.	B.Sc. (Design - Graphics)		10.	B.Design (Gaming)	
11.	B.Design (Interior and Furniture)		12.	B.Design (Graphics)	
13.	B.Design (Product and Industrial)				

The seat preference filled in this form will be recorded online. However, the candidate will have the opportunity to change the preference during the online counseling process as per 'Important Dates' mentioned on University Website, i.e., www.lpu.in

Date 01-Jan-2025

Signature of the Candidate 

IMPORTANT DATES FOR LPUNEST-2025

**Scan QR Code to know the
Important Dates of LPUNEST Examination**



For more details, refer university website www.lpu.in



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