



L OVELY
P ROFESSIONAL
U NIVERSITY

Transforming Education Transforming India

2014

PART A2 - LPUNEST-2014 BOOKLET

(For Engineering Applicants)

LPUNEST
NATIONAL ELIGIBILITY & SCHOLARSHIP TEST

IMPORTANT INFORMATION

Communication

All communication will be done through e-mail and candidate's Mobile number. Fill valid e-mail ID and Mobile number.

Examination

Candidate has to appear in online examination only.

LPU Prospectus 2014 consists of following parts and must be read altogether before taking admission in LPU

Part A1- LPU Information Brochure

Part A2- LPUNEST-2014 booklet(For Engineering Applicants) } LPUNEST-2014 KIT

Part B- Programme Details

Part C- Guidelines and Application Forms 2014

Important Note : LPUNEST-2014 Kit consisting of Part A1 and A2 is applicable only to Engineering applicants appearing for LPUNEST-2014 (for Rs. 500).

At the time of admission, Part B and Part C are to be purchased additionally (for Rs. 400). [Total Cost of the Prospectus is Rs. 900]

Disclaimer

Information published by the university in the Prospectus, International Booklet, University Website, Advertisements or otherwise in any manner, must be read in conjunction with supplements, updations, rectifications, clarifications, corrigenda, notices etc. as and if issued by the university from time to time. Applicants and others concerned must ensure that they know up-to-date information before taking admission or any other purpose, whatsoever.

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1. About LPU

Lovely Professional University has a mammoth ultra-modern campus sprawling over more than 600 acres of land on the National Highway No.1 at the entry of Jalandhar City. It is the largest single campus university in India, with more than 25000 students, 3500 faculty and staff, offering more than 200 programmes.

The University is recognized by University Grant Commission (UGC) and is member of coveted Association of Indian Universities (AIU). The university has been recently awarded as the best Private University of the Year -2013 by Dr. Pallam Raju, Minister HRD, in the event organised by ASSOCHAM (the oldest chamber of industries). With internationally benchmarked curricula, innovative pedagogy, experiential learning, and 35+ foreign tie-ups for equitable and affordable quality education, the University is poised to establish itself as a Centre of Excellence in Research.

The university campus exhibits a rich diversity as the academic staff and students come from all the states of India and more than 26 countries in the world. Education at LPU is holistic one, aimed at developing the intellectual and personal strengths of students. The LPU experience takes place both within and outside the classroom, nurturing creativity and innovation through challenging project work, participative learning and providing an environment conducive to sparking ideas and how to translate those ideas into reality. LPU has an excellent track record of launching its students into successful careers which has been proved by our Alumni now presently working in 300+ global and Indian Super Brands.

2. About LPUNEST-2014 (for Engineering Applicants)

Lovely Professional University is conducting National Eligibility and Scholarship Test (LPUNEST-2014) for 10th and 12th class students. Already more than 3 lac Applicants have registered for LPUNEST-2014, augmenting LPUNEST-2014 to be the **Largest Private Entrance Test** in India and overall (Government (Centre & State) as well as Private) **4th Largest Entrance Test** in India (after Joint Entrance Examination (JEE), All India Pre-Medical Test (AIPMT) & Engineering, Agricultural and Medical Common Entrance Test (EAMCET), Andhra Pradesh) for 2014 as per the best information available till date.

For Engineering Programmes, LPUNEST-2014 will be conducted online (Pen and Paper Mode test is not available) as per the schedule mentioned under the head "Important

Dates for LPUNEST-2014".

This test will have twofold advantage as it will act as Eligibility Test as well as Scholarship Test.

2.1 Eligibility Test: LPUNEST-2014 will provide a gateway to all engineering programmes in LPU and will act as Eligibility test for admission in Engineering Programmes at LPU. For details, refer "Eligibility (for Engineering Programmes)".

2.2 Extensive Scholarship/ Financial Aid: LPU envisages to usher an era of accessible and affordable quality higher education to the youth of our country, as on the basis of LPUNEST-2014 score, the university intends to award extensive Scholarship & Financial Aid upto Rs.4 lac per student. For details of scholarship please refer "Fee & Scholarship Applicable on the basis of LPUNEST-2014".

Note: If the applicant has already appeared for LPUNEST-2014 in his/her school, then he/she need not to appear again.

3. Engineering Programmes Offered at LPU

- B.Tech(4 years Programme)
- B.Tech – M.Tech (5 Years Dual Degree Programme)¹ (Saves 1 year)
- B.Tech – MBA (5 Years Dual Degree Programme)¹ (Saves 1 year)
- B.Tech (Hons)² (4 years Programme)
- B.Tech(Hons)² – M.Tech (5 Years Dual Degree Programme)¹ (Saves 1 year)
- B.Tech(Hons)² – MBA (5 Years Dual Degree Programme)¹ (Saves 1 year)
- B Tech(with Twinning Arrangement)³
- B.tech (with International Exposure)⁴

***Dual Degree:** Dual Degree involves a student pursuing for two different university degrees (UG and PG) in parallel, completing them in less time than it would take to earn them separately. Students after successful completion of 4 years at LPU, will have two choices:-

- (a) To move out with B.Tech degree
- (b) To continue for next 1 year to do MBA/M.Tech (as applicable) Degree subject to eligibility for continuation.

The option to continue for higher degree will be taken in 3rd year.

Students continuing for MBA/M.Tech(as applicable) after 4

years, will be given an advantage to pay tuition fee prescribed for MBA/M.Tech for this year i.e. 2014.

²Hons Programmes: Hons. programmes of LPU are premium programmes in which students has to meet the additional curriculum requirements. Innovative and creative courses are offered to increase the knowledge and hone the technical skills of the students. Honors students are given preference in students exchange / Foreign Scholarships / visits to the foreign universities whenever offered.

³Twinning Arrangement: In twinning arrangement, a student studies the foundation years (2 yrs.) of his/her degree in LPU and will study the remaining two years of the degree in a partner/ receiving university abroad. The Foreign University will award the degree to the student.

Student after successful completion of 2 years at LPU, will have two choices:-

- (a) To join the partner/ receiving university abroad for the completion of programme; or
- (b) To complete the programme at LPU

Note: In case, the student opts to complete the programme at LPU, he will continue to pay the same fees but will be awarded B.Tech degree.

⁴International Exposure: In International exposure, students have the option to visit foreign universities for seminars, workshops and industrial visits etc. It will be 4 weeks free Study tour to USA/Europe

- Tour will be taken during the duration of the Programme as decided by the University.
- Students on successful completion of course/training etc.; if any, during the study tour may be awarded with certification by Host University abroad subject to conditions.
- In case, the student does not go for the tour then he will continue to pay the same fees.

Note: The nomenclature of the Programme in degree certificate will be B.Tech in the concerned discipline only. However the academic transcript may mention the international exposure obtained during the Programme.

3.1 STREAMS/ MAJORS OFFERED IN ENGINEERING

LPU is offering not only conventional engineering streams/ majors but also one of its kind trend setting streams/majors transforming engineering education to leap into the next leg of technology upbeat.

Examine the streams/majors below to determine which engineering concentrations appeal to you:

- 1 Electronics and Communications Engineering (ECE)
- 2 Computer Science and Engineering (CSE)
- 3 Information Technology (IT)
- 4 Mechanical Engineering (ME)
- 5 Civil Engineering (CE)
- 6 Electrical Engineering (EE)
- 7 Electrical and Electronics Engineering (EEE)
- 8 Biotechnology (BT)
- 9 Nanotechnology (NT)*
- 10 Food Technology (FT)*
- 11 Automobile Engineering*
- 12 Agricultural Engineering*
- 13 Electronics & Instrumentation Engineering*
- 14 Mechatronics*
- 15 Mining*

* For Nanotechnology(NT)/Food Technology(FT)/ Automobile Engineering/ Agricultural Engineering/ Electronics & Instrumentation Engineering/ Mechatronics. These streams/majors are offered in all programmes except B.Tech- M.Tech and all honors programmes.

Note: B.Tech(with Twinning arrangement) is only available in three streams/majors i.e. ECE/CSE/ME.

3.2 SPECIALISATIONS OFFERED IN ABOVE STREAMS/ MAJORS

Keeping in view the face of technology shift, not only of today but of tomorrow as well, specific specialisations are crafted so that students in 3rd/4th year would take up 3-4 courses from these specialisations. This will prepare him/her by diving deep into the concepts, thus arm him for the times to come.

Following are the specialisations that may be offered in each streams, subject to minimum number of students and feasibility:

Electronics and Communications Engineering(ECE): Communication Systems or Digital Signal Processing or Wireless Communication Systems or Embedded Systems or VLSI Design or Robotics and Automation

Computer Science and Engineering(CSE): Database

Systems or Software Engineering or Intelligent Systems or Networking and Security

Information Technology(IT): Database Systems or Software Engineering or Intelligent Systems or Networking and Security

Mechanical Engineering (ME): Design or Mechatronics or Manufacturing or Industrial or Materials or Thermal Engg. or Automobile Engg.

Civil Engineering (CE): Structures or Geotechnology or Transportation or Environmental or Hydraulics

Electrical Engineering (EE): Power System or Control System or Power Electronics and Drives

Electrical and Electronics Engineering (EEE): Power System or Control System or Power Electronics and Drives

Biotechnology (BT) : Biochemical & Bioprocess Technology or Computational Biology or Food Biotechnology or Pharmaceutical Biotechnology

Food Technology (FT): Dairy Technology or Fruits & Vegetable Technology or Food Processing Engineering

Automobile Engineering: Design or Manufacturing or Thermal Engg. or Automobile Engg.

Electronics & Instrumentation Engineering: Control and Instrumentation or Power Systems or Embedded systems or Power Electronics or Digital Signal Processing

Mechatronics: Design or Mechatronics or Manufacturing or Embedded Systems or Robotics & Automation or Signal Processing

3.3.Minors For Engineering Programmes

Perhaps for the first time in the country, to tap the zeal and excitement of learning beyond the classrooms and to live with one’s interest and aptitude, certain minors are designed and offered to the students so that they can pursue their dreams along with their conventional course work. Following are the examples of such minors:

- Cyber Security
- 3D Animation and Game Design
- Mechatronics
- Robotics and Automation
- Information Technology
- Networking
- Web Design technologies

- Electronics
- Nanotechnology
- Cloud Computing
- Photography
- Film Editing
- Furniture Design
- Management
- Marketing
- HR
- Finance
- Costume Designing
- Mobile Application Development

A student based on his zest, picks up the minor and fulfils the excitement of learning beyond books which is purely on student to have it or not.

Advantages Of Minor In Engineering:

The minors mentioned above are having lots of advantages and a few are listed below :

- To apply the inter-disciplinary knowledge gained through a Major + Minor
- Minor in IT (Information Technology) enhances placements prospects in the ever growing IT industry
- Provides an opportunity to students to become entrepreneurs and leaders by taking business/management minor
- Combination in the diverse fields of engineering e.g., CSE (Major) + Electronics (Minor) combination increases placement prospects in chip designing companies
- Provides an opportunity to Applicants to pursue higher studies in an inter-disciplinary field of study
- Provides opportunity to the Applicants to pursue interdisciplinary research
- To increase the overall scope of the undergraduate degrees

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. Eligibility (for Engineering Programmes)

4.1. Nationality

Only Indian Nationals are eligible to apply for LPUNEST-2014 (for Engineering Applicants)

4.2. Qualifying Examination:

Applicants appearing for LPUNEST-2014 should have either completed or shall be appearing in 2014, in final examination of 10 + 2 from Central Board of Secondary Education (CBSE, New Delhi) or The Council for Indian School Certificate Examination (ICSE, 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.

4.3. Eligibility Criteria in the Qualifying Examination:

4.3.1 For admission in B.Tech, B.Tech-M.Tech, B.Tech-MBA, B.Tech(with International Exposure) and B.Tech (with Twinning Arrangement) ,applicant should

a) Score 70% aggregate marks in 10+2 or equivalent (with Physics, Mathematics and English)*#

OR

b) Score 50% aggregate marks in 10+2 or equivalent (with Physics, Mathematics and English)*# subject to valid score in LPUNEST-2014 / JEE (Main)/ State Level Entrance Test.

***For B.Tech (Biotech), B.Tech (Nanotechnology) and B.Tech (Food Technology)**

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

#For B.Tech (Agricultural Engineering)

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

4.3.2 For admission in B.Tech(Hons), B.Tech(Hons)-M.Tech and B.Tech(Hons)-MBA applicant should

a) Score **80% aggregate marks** in 10+2 or equivalent (with Physics, Mathematics and English)\$

OR

b) Score **60% aggregate marks** in 10+2 or equivalent (with Physics, Mathematics and English)\$ subject to valid score

in LPUNEST-2014

***For B.Tech– Hons (Biotech)**, Subjects considered:

Physics, Chemistry, English & Maths/ Biology/ Biotech; other things remaining same as above.

In case applicant has not studied English as a subject, condition of English may be waived off provided the applicant in his qualifying exam has studied in English medium or has studied Computer Science as a subject.

Details of the “**valid score**” can be referred from university website i.e. www.lpu.in .

5. Fee and Scholarship Applicable on the basis of LPUNEST- 2014

The Fee applicable and Scholarship offered to an Applicant depends on LPUNEST-2014 as per following details:

PHASE – I: **[Early Decision Benefit- EDB]:** APPEARED FOR LPUNEST-2014 BETWEEN 20TH APRIL 2014 AND 31ST MAY 2014

Applicant appearing for LPUNEST-2014 on or before 31st May 2014 may avail the Early Decision Benefit (EDB). Early Decision Benefit (EDB) may be offered in Admission 2014 for applicants who register, appear and qualify (Pass) LPUNEST-2014 on or before EDB cut-off date i.e. 31st May 2014, However applicant may take admission on or before 15th June, 2014.

Applicants admitted with Early Decision Benefit (who qualify (Pass) LPUNEST-2014 during Phase – I) will have following advantages:

- **Fee of last year i.e. 2013** will be charged from Applicants admitted under EDB scheme. All such Applicants will end up paying lesser fee than the Applicants not admitted through EDB Scheme. The difference will be Rs. 10000/- per annum resulting in cumulative benefit of Rs. 40000/- in four years*.
- **Multiple options for Scholarship:** Applicants qualifying LPUNEST-2014 in Phase – I (during EDB) may avail scholarship on the basis of performance in LPUNEST-2014 (top 5% or 15% or 25%) **or** on the basis of marks in qualifying exam (10+2) **or** on the basis of performance in JEE(MAIN) **or** State level Engineering Entrance exams*\$. Phase I will enable a student to avail scholarship upto Rs. 1 Lac per annum by performing well in LPUNEST-2014 even if he could not do well in 10+2 exam.

The Fee for Engineering Programmes and Scholarship amount applicable to such Applicant will be as per the following table:

Fee and Scholarship applicable during EDB (Early Decision Benefit) i.e. Applicants qualifying LPUNEST-2014 on or before 31st May 2014 & subsequently taking admission on or before 15th June, 2014			
Fee applicable: Fee of 2013 For detail of Programme wise fee and fee after Scholarship, please refer Annexure – V			
Scholarship Amount per Annum	Rs. One Lac (1,00,000/-)	Rs. Eighty Thousand (80,000/-)	Rs. Sixty Thousand (60,000/-)
On the basis of National Rank of LPUNEST-2014*	(Top 5%)	Next 10% (6%-15%)	Next 10%(16%-25%)
OR			
On the basis of Percentage in 10+2 and Applicant has also qualified(Passed) LPUNEST-2014*	90% or above	80% - 89.99%	70% - 79.99%

\$ As mentioned above, Scholarship upto Rs. 1 Lac per annum is also available on the basis of ranks/marks scored in JEE(MAIN) or State level Engineering Entrance exam also. However applicant must qualify LPUNEST-2014 for obtaining the scholarship. Details can be referred from university website i.e. www.lpu.in

* To qualify (Pass) LPUNEST-2014, applicant must score equal to or more than cut off marks as decided by University from time to time.

PHASE – II: 1ST JUNE 2014 TO 30TH JUNE 2014.

Applicant appearing for LPUNEST - 2014 after 31st May will not be getting the same scholarship as applicable in Phase – I. During Phase – II applicant may avail following advantages:

a) **Higher Scholarship compared to Applicant not appearing for LPUNEST-2014:** Applicants qualifying LPUNEST-2014 in Phase – II will get higher scholarship than the Applicant not appearing for LPUNEST-2014. **The difference will be Rs. 10000/- per annum resulting in cumulative benefit of Rs. 40000/- in four years*.** For availing higher Scholarship applicant must register, appear and qualify (Pass) LPUNEST-2014 as well as take admission (subject to eligibility) on or before **30th June 2014**

- b) **Higher Scholarship compared to Phase – III:** Applicants taking admission in Phase-II i.e before 30th June and applicant qualifying LPUNEST - 2014 before 30th June will avail higher scholarship than Phase – III. **The difference will be Rs. 20000/- per annum resulting in cumulative benefit of Rs. 80000/- in four years***
- c) **Financial Aid:** Applicants not falling in any Scholarship category may avail Financial Aid of Rs. 40000/- per annum in Phase-II on the basis of LPUNEST-2014. Financial Aid may be offered to top 25% applicants appearing in LPUNEST-2014 during Phase-II subject to qualifying LPUNEST-2014. Such applicants shall take admission (subject to eligibility) on or before 30th June 2014.

FEE AND SCHOLARSHIP APPLICABLE TO APPLICANTS IN PHASE-II

Fee applicable: Fee of 2014

For detail of Programme wise fee and fee after Scholarship/Financial Aid, please refer Annexure - V

SCHOLARSHIP IN PHASE-II

Percentage brackets in qualifying exam	90% or above	80% - 89.99%	70% - 79.99%
Scholarship Amount per Annum on the basis of percentage in Qualifying Exam	Rs. Ninety Thousand (90,000/-)	Rs. Seventy Thousand (70,000/-)	Rs. Fifty Thousand (50,000/-)
Scholarship Amount per Annum on the basis of percentage in Qualifying Exam and Applicant has also qualified LPUNEST-2014*	Rs. One Lac (1,00,000/-)	Rs. Eighty Thousand (80,000/-)	Rs. Sixty Thousand (60,000/-)

FINANCIAL AID: Rs. FORTY THOUSAND per ANNUM (Rs. 40000/-)

Scholarship is also available on the basis of ranks/marks scored in JEE(MAIN) or State level Engineering Entrance exams. Details can be referred from university website i.e. www.lpu.in

* To qualify (Pass) LPUNEST-2014, applicant must score equal to or more than cut off marks as decided by University from time to time.

IMP: Phase II of the test will be available only if the seats remain vacant.

PHASE – III: 1st July to 25th July 2014

Applicant appearing for LPUNEST - 2014 after 30th June will not be getting the same scholarship as applicable in Phase – I or II. During Phase – III applicant may avail following advantages:

a) **Higher Scholarship compared to Applicant not appearing for LPUNEST-2014:** Applicants qualifying LPUNEST-2014 in Phase – III will get higher scholarship than the Applicant not appearing for LPUNEST-2014. **The difference will be Rs. 10000/- per annum resulting in cumulative benefit of Rs. 40000/- in four years*.** For availing higher Scholarship applicant must register, appear and qualify (Pass) LPUNEST-2014 as well as take admission (subject to eligibility) on or before **25th July 2014.**

b) **Financial Aid:** Applicants not falling in any Scholarship category may avail Financial Aid of Rs. 20000/- per annum in Phase-III on the basis of LPUNEST-2014. Financial Aid may be offered to top 25% applicants appearing in LPUNEST-2014 during Phase-II subject to qualifying LPUNEST-2014. Such applicants shall take admission (subject to eligibility) on or before 25th July 2014.

c) **Last Chance to avail Scholarship/ Financial Aid:** Phase III of LPUNEST-2014 becomes very important as this may be the last chance to avail scholarship for the applicants. This Phase may be the last chance to avail Scholarship / Financial Aid on the basis of performance in LPUNEST-2014 **or** on the basis of marks in qualifying exam (10+2) **or** on the basis of performance in JEE(MAIN) **or** State level Engineering Entrance exams*^s.

FEE AND SCHOLARSHIP APPLICABLE TO APPLICANTS IN PHASE-III

Fee applicable: Fee of 2014
For detail of Programme wise fee and fee after Scholarship/Financial Aid, please refer Annexure - V

SCHOLARSHIP IN PHASE-III

Percentage brackets in qualifying exam	90% or above	80% - 89.99%	70% - 79.99%
Scholarship Amount per Annum on the basis of percentage in Qualifying Exam	Rs. Seventy Thousand (70,000/-)	Rs. Fifty Thousand (50,000/-)	Rs. Thirty Thousand (30,000/-)
Scholarship Amount per Annum on the basis of percentage in Qualifying Exam and Applicant has also qualified LPUNEST-2014*	Rs. Eighty Thousand (80,000/-)	Rs. Sixty Thousand (60,000/-)	Rs. Forty Thousand (40,000/-)

FINANCIAL AID: Rs. TWENTY THOUSAND per ANNUM (Rs. 20000/-)

\$ Scholarship is also available on the basis of ranks/marks scored in JEE(MAIN) or State level Engineering Entrance exams. Details can be referred from university website i.e. www.lpu.in

* To qualify (Pass) LPUNEST-2014, applicant must score equal to or more than cut off marks as decided by University from time to time.

IMP: Phase III of the test will be available only if the seats remain vacant.

Important Information

In case an applicant 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 shall not be considered eligible for admission/scholarship/financial aid, in any case, if granted due to any reason, shall be cancelled and the applicant shall have no claim, whatsoever against the university.

6. How to Apply

6.1 Application form

- Application form will be in a format that can be processed by Optical Mark Reader (OMR).
- Cost of LPUNEST-2014 Kit (Application kit) is Rs. 500/-. Application fee once paid will not be refunded.

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

Option-I - AFTER PURCHASING LPUNEST-2014 KIT

Applicant may obtain LPUNEST-2014 Kit from University Campus / Camp Offices / Designated branches of specific Banks/ Post Offices or any other prescribed place by paying cash or providing Demand Draft drawn in favour of **“Lovely Professional University”** payable at **Jalandhar**.

Once the applicant has obtained the LPUNEST-2014 kit, form can be submitted by one of the following methods:

MANUAL:

- Fill the full application form(OMR sheet) after reading all the instructions as specified in “Instructions for filling Application Form(OMR sheet)”.
- Paste the recent passport size coloured photograph.
- Send in the self-addressed envelope provided in LPUNEST-2014 kit.

SEMI- ONLINE APPLICATION - In case applicant does not want to send the hard copy of purchased application form :

- Applicant should have
 - Softcopy of recently taken passport size colour photograph.

2. Softcopy of signature of Applicant.
- b. Fill the application form at www.lpu.in
- c. When prompted for payment, choose the option for unique OMR code(given on the OMR sheet)
- d. Submit the complete application form along with photograph, signature and unique OMR code obtained after scratching from OMR Sheet.
- e. Submit and save the copy of completed application form for your reference.

Note: Memorize the Application Number and Unique OMR code as written on your Application Form (OMR Sheet) and keep it in safe custody as both will be used as Username and Password respectively for accessing Online Slot Management System.

OPTION-II: WITHOUT PURCHASING LPUNEST-2014 KIT

Applicant can apply for LPUNEST-2014 without purchasing LPUNEST-2014 Kit using one of the following methods:

ONLINE APPLICATION WITH DD: Apply through University website (No Internet banking facility required).

- a) Fill the application form at www.lpu.in
- b) Take a printout (Laser or inkjet only) of the completed application on a good quality A4 size paper.
- c) Enclose a demand draft for Rs. 500/- drawn in favour of **Lovely Professional University** Payable at **Jalandhar**.
- d) Paste a recent passport size colour photograph, affix signature of Applicant and send in good quality envelope to the address below.

Division of Admissions(LPUNEST-2014)
Lovely Professional University
Jalandhar- Delhi G.T. Road(NH-1),
Phagwara, Punjab(India)-144411

Applicant should write his / her Name and "Application for LPUNEST-2014" on the back of the Demand Draft. Please keep a photocopy of the filled-in application and Demand Draft for future reference.

ONLINE APPLICATION: Apply through the University Website (Internet banking facility required).

- a. Fill the application form at www.lpu.in
- b. Pay Rs. 500/- through online payment when prompted.

Note: For on-line application, Applicant should have

1. Softcopy of recently taken passport size colour photograph.
2. Softcopy of signature of Applicant.
3. Internet Banking facility through Net banking / Debit card / Credit card.

Printout of the computer generated application can be retained by the applicant for reference.

All our correspondence including centre booking and issue of e-hall ticket details will be through email only. Therefore, the applicants are requested to get ready with valid email id and mobile number for contact

6.3 INCOMPLETE APPLICATIONS

Incomplete application (For example: Declaration not signed, DD not enclosed, DD wrongly drawn, Photographs not affixed on the application etc.) will not be processed. LPU will not take responsibility to inform these applicants. Such applicants will not be able to access the Online Slot Management System.

Applicants are hence advised to ensure that the application is duly filled and dispatched along with other enclosures complete in all respects.

7. Online Slot Management System

After submitting the application to the university, applicants need to use Online Slot Management System for :

- To book a schedule using "Online Slot Management System"
- To download e-hall ticket from the website
- To check the allocated slot by the university. (If applicant has opted that university will book the slot).

7.1 USERNAME AND PASSWORD:

Username and password can be obtained in the following ways:

Option I: If applicant has purchased the hard copy of the application form(even if submitting it online after purchasing it):

- a. Username of the applicant will be application form number.
- b. Password/Unique OMR code for accessing the test website is given on OMR sheet.

Option II: If applicant is applying online

Username and password will be flashed on the screen after completing the submission of online form as well as making the payment of Rs. 500/-. Username and password will also be e-mailed to the applicant on the registered e-mail ID.

Option III- If the applicant is applying online and sending DD

Username and password will be sent to the applicant on his/her registered e-mail ID provided in the application form after realisation of the payment.

7.2 USERNAME AND PASSWORD INSTRUCTIONS

- a. Applicant must go to www.lpu.in and change the password.
- b. This user name and password must be remembered to check the updates related to the test.
- c. The security of your password is totally your 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.
- d. The Password must be kept confidential. Do not disclose it with others or write them down or store them in a file on your computer or auto save passwords.
- e. Your password is required:
 - To book a schedule using "Online Slot Management System"
 - To download e-hall ticket from the website
 - To check the allocated slot by the university. (If applicant has opted that university will book the slot).
- f. Once University receives the Application Form, an e-mail regarding User Name and Password will also be sent to the applicant. So, fill your valid e-mail ID in the application form.

7.3 ONLINE TEST BOOKING SYSTEM:

Applicant is required to fill the column in OMR sheet that whether he will book the slot for taking test himself/herself or he/she wants university to book the slot for the applicant.

OPTION-I BOOKING OF THE SLOT BY THE APPLICANT

- a. Online Test booking system is a web based online scheduling system available at www.lpu.in which will be activated on 1st March, 2014.
- b. While booking your test schedule, please ensure that you have the following with you:

- i. A photocopy of your submitted application form
 - ii. Online test booking password
- c. Applicants can book the test schedule at the centre, date and time of their choice.
 - d. Applicant has to book the test atleast 3 days before the date he wants to appear for the test for e.g. if you want to take test on 30th May 2014, then you have to book the slot on or before 27th May 2014. However to avoid the last moment rush, you are advised to book the slot at the earliest.
 - e. The schedule bookings are done on first-come-first-served basis and are subject to availability.

OPTION-II BOOKING OF THE SLOT BY UNIVERSITY

- a. Applicant has to specify 5 choices on the OMR sheet only.
- b. All the applications will be processed after 1st March, 2014, Since Online Slot Management System will be activated on 1st march, 2014.
- c. Whenever the application form reaches the University, within 48 hours any one choice will be allocated to the applicant based upon the availability. However LPU will not allot the slot before 5th March, 2014.
- d. Applicant has to visit www.lpu.in regularly and is required to fill username and password to check the allocated slot for the test.
- e. In case of non-availability of slots out of the 5 choices filled by the applicant or due to any postal delay, university may allocate any other date to the applicant.

7.4 IMPORTANT POINTS FOR ONLINE TEST BOOKING PROCEDURE

- a. A slot once booked cannot be changed. Requests for change of test centre, date or slot will not be entertained under any circumstances.
- b. In case of non-availability of slots in a centre of choice, the applicant may choose to book a slot in an alternate centre.
- c. If for any reason, including poor response of applicants for appearing at a particular centre, a test centre has to be cancelled, the applicants who had opted for that centre will be allotted another centre. The LPU will inform such applicants individually through registered e-mail ID and Mobile Number.
- d. The online test booking system is available only to those

eligible applicants who have submitted the application forms complete in all respects on or before the last date mentioned in “Important Dates for LPUNEST-2014”.

- e. It is the responsibility of the applicant to book their test schedule in Online Slot Management System in the given time frame if he/she has chosen that booking of the slot will be done by the applicant in the OMR sheet. LPU will not be held accountable for the non-bookings. The entrance test fee will not be refunded under any circumstances for such cases.
- f. The confirmation mail will be automatically sent to the email address after the applicant has booked his/her schedule through the online slot management System.

IMPORTANT NOTE:

- I. In the rare and unlikely event of a technical failure during the test, the applicant may be required to attempt for the test again.
- II. Applicants must visit www.lpu.in regularly to obtain latest news, information and updates on LPUNEST-2014.

8. E-Hall Ticket

Process for downloading the e-hall ticket:

1. For the Applicants who booked their test slot themselves: The e-hall ticket will be generated immediately after the applicant has booked the schedule through the online test booking system.
2. For the Applicants whose test slot is being booked by the University: As already mentioned that test slot will be booked within 48 hours of the receiving the application form, so the e-hall ticket will be made available at www.lpu.in.
3. Applicant should provide the application username and online test booking password to download the e-hall ticket. The copy of the e-hall ticket will also be emailed to the applicant. Applicants must provide valid email ID in the application form.

The e-hall ticket will indicate the e-hall ticket number, address of the test centre, test date & time allotted to the applicant. Discrepancies, if any, must be brought to our notice immediately at lpunest@lpu.co.in.

The e-hall ticket will NOT be dispatched to applicants via post or fax.

Applicants should ensure that a printer is connected to their computer while printing the e-hall ticket. Applicants should take two print outs of the e-hall ticket using the print option on A4 size paper only. Please ensure that all information on the e-hall ticket including photograph is clearly visible on the print out.

No applicant will be permitted to appear for the test without a valid e-hall ticket.

The applicants must not mutilate the e-hall ticket or change any entry made therein after it has been authenticated and received by them. The e-hall ticket is not transferable to any other person. Impersonation is a legally punishable offence.

The e-hall ticket is an important document, it must be preserved and produced at the time of admission also.

Report to the selected test centre with the two copies of the e-hall ticket, one photocopy of the application form and any one of the following for photo identification:

Passport/Driving License/EC Voter ID card/IT PAN card or School/College photo-bearing ID card.

9. Online Entrance Test

9.1 What is Online Entrance Test:

The salient features of the computer based ONLINE entrance test are:

- a. The applicant sits in front of the computer and the questions are presented on the monitor and the applicant submits his/her answers through the use of mouse. The computer is connected to the server, which delivers the test, in real time through a reliable connectivity.
- b. Online Entrance test assumes that the applicant has basic familiarity with use of computers like use of keyboard and mouse operation. It is the responsibility of the applicant to acquire these skills before appearing in the test and the University cannot take responsibility for the same.

9.2 Procedure for Online Entrance Test

The applicants 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 questions appearing on the screen will be in English. All questions will be of the Multiple Choice Question (MCQ type).

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 the four responses only is the correct or most appropriate answer. Applicants must choose the correct or most appropriate answer by clicking on the button next to the answer. Applicants can navigate freely through the questions.

ROUGH WORK

All rough work should be done in the paper/s supplied in the Test Centre. No paper/s should be taken to the test hall for this purpose.

SCORING, NEGATIVE MARKING

Each question carries four marks. Each correct answer will be awarded four marks. There will be no negative marking for wrong answers or unanswered questions.

10. Question Paper Pattern for LPUNEST-2014

The test duration is of 120 minutes and consists of 90 multiple choice questions (MCQ) of the objective type. The approximate distribution of questions is as follows: Physics - 30 questions, Chemistry - 30 questions, Mathematics- 30, Biology - 30 questions. Applicants can opt for either Physics, Chemistry, Mathematics or Physics, Chemistry, Biology. Language of the entrance test shall be English only.

11. Regulations at the Test Centre

Applicants should arrive at the test centre as per the reporting time mentioned in the e-hall ticket. There will be pre-test process which includes registration and an on-site orientation prior to the start of the actual test. If a applicant arrives after the on-site orientation has begun, he/she will not be allowed to take the test. The test hall will be opened 30 minutes before the commencement of the test.

The applicant has to register his/her name in the registration counter. The e-hall tickets of the applicants will be checked to satisfy about the identity of each applicant.

Each applicant is given a seat with a computer. Applicants must find out and occupy their allotted seats at least 15 minutes before the commencement of the test.

Applicants will not be allowed to carry any textual material, printed or written, bits of papers or any other material except the e-hall ticket inside the test hall. Applicants 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 applicant will be allowed to go outside the test hall till the completion of the entire duration of time. Once applicants leave the hall (even if only to answer a call of nature) they may not be allowed to return under any circumstances. Smoking in the test hall is strictly prohibited. Tea, coffee, cold drinks or snacks are also not allowed to be taken into the test hall.

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

Applicants shall maintain perfect silence and attend to their questions only. All actions of the applicant in the test hall will be closely monitored using web cameras and closed circuit TV cameras. Any conversation or movement or disturbance in the test hall shall be deemed as misbehaviour and if a applicant 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 the LPU. The LPU reserves the right to withhold the result of such applicants.

Applicants must sign the attendance sheet in the presence of the invigilator. The invigilator will also put his/her signature in the place provided in the e-hall ticket.

12. Application Form

Application form is OMR Sheet provided in LPUNEST-2014 Kit.

13. List of Test Cities

List of test cities is attached as Annexure-I.

14. Syllabus of the Test

Syllabus of LPUNEST- 2014 is attached as Annexure-II.

15. Results

LPUNEST-2014 is being conducted in three phases. So result will also be declared according to the dates of the phases.

Phase	Result for Eligibility	Result for Scholarship	Result for Financial Aid
Phase I	Immediately after the conduct of the exam*	on or before 5th June, 2014	On or before 5th June, 2014**
Phase II	Immediately after the conduct of the exam*	Immediately after the conduct of the exam*	On or before 5th July, 2014**
Phase III	Immediately after the conduct of the exam*	Immediately after the conduct of the exam*	On or before 31st July, 2014**

*Result will be displayed on the screen of the computer on which Applicant is taking test. Result will also be sent to the applicant on the valid e-mail ID provided by the applicant.

**Result will be displayed on www.lpu.in and will be sent to the applicants on their e-mail ID as well.

16. Test Equating Method

Equating is a statistical process that is used to adjust scores on test forms (that are approximately equivalent) so that scores on the forms can be used interchangeably. Thus, equating is used to adjust scores of applicants who have taken different forms of a test, in order to facilitate meaningful and fair comparison for merit list and ranking of these applicants. This type of equating is called "equipercentile equating."

This methodology may be used by LPU to make the merit list of LPUNEST-2014, such that scores on different forms with the same percentile rank are considered to be equivalent.

17. Admission Process

- Applicant satisfying the eligibility criteria as prescribed under the head "Eligibility(For engineering Applicants)" shall apply before the prescribed dates as mentioned on University website www.lpu.in.
- To apply for the admission in LPU, prospectus can be purchased on payment of Rs. 400/-(In cash or by DD or pay order) from the campus designated camp offices of the university or such other places as specified by the university or prospectus can be downloaded from the university website (under the head Admission i.e. http://www.lpu.in/admissions/prospectus_and_forms.php). In case the prospectus is downloaded from the website or in case applying online then the applicant may have to pay the application fee of 400/- along with the tuition fee.

(Note: Prospectus is worth Rs. 900/- , but for the applicants taking admission on the basis of LPUNEST-2014, it will be worth 400/- as they have

already paid Rs. 500/- for LPUNEST-2014 Kit).

- DD or pay order for obtaining prospectus is required to be made in favour of 'LOVELY PROFESSIONAL UNIVERSITY' payable at JALANDHAR.
- Applicant need to submit the form and deposit the fee as per details specified in PART C of the prospectus or university website <http://www.lpu.in>

18. Refund Policy

- Application for refund of Tuition Fee, Residential/Food/Transport fee received by the last date of admission for the concerned programme will be accepted and thereafter no application for refund will be accepted.
- (a) Refund of Tuition fee

- Withdrawal before the start of session but not after the last date of admission for concerned programme

In case an applicant withdraws before the start of session but not after the last date of admission for 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 Rs.1000/- (Rupees One Thousand) shall be refunded.

- Withdrawal after the start of session but before the last date of admission for concerned programme

In case an applicant withdraws after the start of session but before the last date of admission for concerned programme and if the seat consequently falling vacant is filled by waitlisted applicant (if any),

then the amount already deposited by the applicant, after deduction of processing fee of Rs. 1000/- and proportionate monthly tuition fee shall be refunded.

For deduction of proportionate monthly tuition fee, the programme tuition fee without Early Decision Benefit (EDB) (if any) and without scholarship/financial aid (if any) will be considered

Monthly tuition fee is equivalent to 1/5th of tuition fee per semester.

(b) Refund of Residential fee (including laundry fee)

- I. Withdrawal before the start of session but not after the last date of admission for concerned programme
In case, an applicant withdraws before the start of session but not after the last date of admission for concerned programme and 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 Rs.1000/- (Rupees One Thousand) shall be refunded.
- ii. Withdrawal after the start of session but before the last date of admission for concerned programme

In case, an applicant withdraws after the start of session but before the last date of admission for concerned programme and if the seat consequently falling vacant is filled by waitlisted applicant (if any), then the amount already deposited by the applicant, after deduction of processing fee of Rs. 1000/- and proportionate monthly residential fee (including laundry fee) shall be refunded.

Monthly residential fee (including laundry fee) is equivalent to 1/10th of total residential fee (including laundry fee) for academic session.

(c) Refund of Food facility fee

- I. Withdrawal before the start of session but not after the last date of admission for concerned programme
In case, an applicant withdraws before the start of session but not after the last date of admission for concerned programme and 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 Rs.1000/- (Rupees One Thousand) shall be refunded.
- ii. Withdrawal after the start of session but before the last date of admission for concerned programme

In case, an applicant withdraws after the start of session but before the last date of admission for concerned programme and if the seat consequently falling vacant is filled by waitlisted applicant (if any), then the amount already deposited by the applicant, after deduction of processing fee of Rs. 1000/- and proportionate monthly food fee shall be refunded.

Monthly food facility fee is equivalent to 1/10th of total food facility fee for academic session.

(d) Refund of Transport fee

- I. Withdrawal before the start of session but not after the last date of admission for concerned programme
In case, an applicant withdraws before the start of session but not after the last date of admission for concerned programme and the seat consequently following vacant is filled by a waitlisted applicant (if any) then the amount already deposited by the applicant, after the deduction of processing fee of Rs.1000/- (Rupees One Thousand) shall be refunded.
- ii. Withdrawal after the start of session but before the last date of admission for concerned programme

In case, an applicant withdraws after the start of session but before the last date of admission for concerned programme and if the seat consequently falling vacant is filled by waitlisted applicant (if any), then the amount already deposited by the applicant, after deduction of processing fee of Rs. 1000/- and proportionate monthly transport fee shall be refunded.

Monthly transport fee is equivalent to 1/10th of total transport fee for academic session.

3. For the purpose of refund processing, date of induction or pre term or commencement of classes, whichever is earlier, shall be deemed to be the date of start of session for the concerned programme and the schedule of the same will be available on University website (under the head Admission i.e. <http://www.lpu.in/admissions/admissions.php>) only.

4. Non-refundable fees/cases

- (a) Amount paid for obtaining LPUNEST-2014 kit, Prospectus, Application fee, Processing fee, Entrance fee, Late fee, Programme Transfer Fee etc. is non-refundable under all circumstances, unless in specific are prescribed as refundable.
- (b) In case a fresher student leaves 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 applicant shall stand forfeited and the applicant shall further be liable to pay the fee and other charges for remaining/ entire duration of the programme.

- (c) If in any case, an applicant 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 applicant 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 applicant shall stand forfeited and the applicant shall further be liable to pay the fee and other charges for remaining/ entire duration of the programme.
- (d) If a student was earlier admitted to a programme for which last date of admission has lapsed, but now get transferred to another programme for which admission are still on i.e. (last date of admission for transferred programme has not lapsed), then application for refund for such applicant from the transferred programme shall not be considered.
- (e) Student taking admission just before/ or on the last date of admission, shall not be entitled to claim refund after the last date of admission.

5. Procedure of refund

- (a) For refund, applicant needs to apply to the University on the prescribed form as available in the Prospectus 2014 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 by the last date of admission 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 the concerned student/ parent as decided by the University.
 - (g) Any amount, if refunded, will be in Indian Currency only.
 - (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.
 - (i) All the applications for refund of tuition fee, Residential/ Food/Transport/Vehicle Parking fee will be processed within minimum 6-8 weeks from the date of receiving of the refund application.
6. No interest is payable on any amount deposited with University also including refundable amount, if any.
 7. (a) An applicant claiming for refund of tuition fee and/ or residential fee and/ or food fee and/or transport fee (as applicable) before the start of session, he/she shall not join the programme and/or avail residential/ food/ transport/ vehicle parking facility (as and if applicable)
 - (b) An applicant claiming for refund of tuition fee and/ or residential fee and/ or food fee and/or transport fee and/ or vehicle parking fee (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/ food/ transport/ vehicle parking 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

19. Instructions for filling Application Form (OMR Sheet)

Read the following instructions carefully before filling the application form.

- The application form should be filled by the applicant in his/her own handwriting.
- It is suggested that the applicant 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.
- Your application form will be Machine-processed. First, write in CAPITAL LETTERS the required information or enter the relevant code with a black ball-point pen in the box (es) (wherever provided). Shade the alphabet/ numeral circle corresponding to the above using HB pencil only. What you write in the boxes is only for your guidance and for verification that you are shading the correct alphabet / numeral option.
- If you wish to change a marking, erase the shaded spot completely and then shade the appropriate alphabet / numeral.
- Do not scribble, cut, tear or wrinkle the application form.
- Do not put any stray pencil marks anywhere on the application form.
- Do not write or make any marks on the Barcode.
- Your photograph, signature and address are to be machine scanned. The machine recognizes only good quality images. You are therefore to paste a good quality colour photograph with light colour background taken not more than two months earlier and 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 your 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 OMR Code/ Password for future reference.

ITEM WISE INSTRUCTIONS

Item-1-Name of the Applicant

Write your name in capital letters as it appears or would appear in your XII Std certificate. Write only a single letter in a box. Do not leave any blank box between the letters in a name. One box should be left blank between consecutive words of your name. If your name has several initials, leave one blank after each of them. Shade the corresponding alphabet underneath each letter of the name. Do not write Mr., Miss, Km. etc before your name.

Item-2-Date of Birth

Write the day, month and year of your birth as per the English calendar and as recorded in your School Board/+2/ Intermediate/ Pre-University 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. Shade the corresponding numerals for day, month and year in each column.

Item-3-Native State

Refer to the codes for various States given in ANNEXURE-IV of the Information Brochure and enter the appropriate code in the box provided. Shade the numerals below to correspond with the code entered. Please mention particular state, applicants belongs to.

Item-4-Test City

Refer to the codes for Test Cities, where you want to appear for exam, in ANNEXURE-I of the Information Brochure and write the appropriate code in the space provided. Shade the corresponding numeral under each digit of the code.

Item-5-Gender

Shade the appropriate circle depending upon your gender.

Item-6-Community

Write the appropriate code in the box provided and then shade the appropriate circle to correspond with the code, in all the above items. (For statistical purpose only).

Item-7-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, C/O name and all other details including the correct PINCODE, Phone No. with the correct STD code and Mobile number. Please note that this block will be machine scanned and therefore, it should be written very clearly and in CAPITALLETTERS in black ballpoint pen only. In case you make any mistake, cover the entire box with an exact sized white paper slip and write your address on it. Your address must not overflow this box.

Item-8- XII(10+2) Standard Status

Shade the proper option out of two given in this item number. In case your result for class 10+2 is already declared then shade the PASSED option otherwise shade APPEARING option.

Item-9-XII(10+2) Board

Refer to the codes for various School Education Boards given in ANNEXURE-III of the Information Brochure and write the appropriate code in the box provided. Shade the corresponding numeral under each digit of the code.

Item-10- Marks (%) in XII(10+2) Standard

Write the aggregate percentage marks obtained in XII standard if PASSED is shaded in ITEM NO-9.

Darken the corresponding numerals under each digit.

Item-11-Mobile Number

Write your mobile number in the space provided and shade the corresponding numeral under each digit.

Item-12-Exam Date

There are two options to book the slot for taking test. If applicants want University to book the slot, shade option 1. If they wish to book the slot themselves, shade option 2.

Item - 13-- Choice of Exam Date

If applicant has shaded the option 1 in ITEM-12, 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 between 20th April 2014 to 25th July 2014. Considering postal delays/ holidays etc. the dates mentioned should be atleast 7 days later than the current date i.e. date of posting the application.

Item-14- Enter Valid e-mail ID

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.

Item -15- Details of the Qualifying Examination Passed / Appearing For

Give the details of Higher Secondary examination. If already passed, attach xerox copies of the relevant marks sheet. Please note that this block will be machine scanned and therefore, it should be written very clearly and in CAPITALLETTERS in black ballpoint pen only. In case you make any mistake, cover the entire box with an exact sized white paper slip and write address on it. Address must not overflow this box.

Item - 16-- Declaration

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

Photograph

Affix one recent (taken not later than a month) good quality colour photograph with light colour background in the space provided for this purpose. Spectacles if being used regularly are allowed. The photograph should be firmly affixed to the application form. It should not be pinned or stapled. Photograph should not be larger than the space provided in the box for pasting it. It is expected that the applicant will have the same appearance at the time of the examination and counselling as in the photograph affixed in the application form. In case his / her appearance changes, he / she would be required to bring two new photographs at the time of the examination.

20. List of Annexures

- Annexures - I -- Codes of Test Cities - LPUNET-2014
- Annexures - II -- Syllabus of LPUNET-2014
- Annexures - III -- Codes of School Education Boards of Class XII
- Annexures - IV -- Code of the States / Union Territories
- Annexures - V -- Fee and Scholarship Tables
- Annexures - VI -- Sample Questions

Annexure - I (Codes of the Test Cities – LPUNEST – 2014)

STATE/UT	CITY NAME	CODE
Andhra Pradesh	Hyderabad	101
	Secunderabad	102
	Vijayawada	103
	Visakhapatnam	104
Arunachal Pradesh	Itanagar	105
Assam	Guwahati	106
Bihar	Bhagalpur	107
	Patna	108
Chandigarh	Chandigarh	109
Chattisgarh	Bhilai	110
	Bilaspur	111
	Korba	112
	Raipur	113
Delhi	Delhi	114
Goa	Margao	115
Gujarat	Ahmedabad	116
	Baroda	117
	Gandhidham	118
	Rajkot	119
	Surat	120
Haryana	Ambala Cantt	121
	Bhiwani	122
	Faridabad	123
	Fatehabad	124
	Gurgaon	125
	Hisar	126
	Karnal	127
	Panipat	128
	Rohtak	129
	Sonipat	130
	Yamunanagar	131
Himachal Pradesh	Bilaspur	132
	Ghumarwin	133
	Hamirpur	134
	Kangra	135
	Kullu	136
	Mandi	137
	Palampur	138
	Rampur Bsr	139
	Shimla	140
	Solan	141
	Una	142
Jammu And Kashmir	Jammu	143
	Sri Nagar	144
Jharkhand	Dhanbad	145
	Jamshedpur	146
	Ranchi	147
Karnataka	Bangalore	148
Kerala	Kochi	149
	Kozhikode	150
	Thiruvananthapuram	151
Madhya Pradesh	Bhopal	152
	Gwalior	153
	Indore	154
	Jabalpur	155

Maharashtra	Kolhapur	156
	Mumbai	157
	Nagpur	158
	Nasik	159
	Pune	160
Meghalaya	Shillong	161
Nagaland	Dimapur	162
Orissa	Berhampur	163
	Bhubaneshwar	164
	Cuttack	165
Punjab	Abohar	166
	Amritsar	167
	Bathinda	168
	Ferozpur	169
	Jalandhar (LPU Campus)	170
	Khanna	171
	Ludhiana	172
	Mansa	173
	Moga	174
	Muktsar	175
	Pathankot	176
	Patiala	177
	Sangrur	178
Rajasthan	Ajmer	179
	Alwar	180
	Bikaner	181
	Jaipur	182
	Jodhpur	183
	Kota	184
	Udaipur	185
Tamilandu	Chennai	186
	Coimbatore	187
	Madurai	188
Uttar Pradesh	Agra	189
	Allahabad	190
	Bareilly	191
	Ghaziabad	192
	Gorakhpur	193
	Kanpur	194
	Lucknow	195
	Meerut	196
	Moradabad	197
	Muzaffarnagar	198
	Saharanpur	199
	Varanasi	200
	Uttarakhand	Dehradoon
Haldwani		202
Haridwar		203
Nainital		204
Rudrapur		205
West Bengal	Durgapur	206
	Kolkata	207
	Siliguri	208
Manipur	Imphal	209
Mizoram	Aizwal	210

Annexure - II (SYLLABUS OF LPUNEST - 2014)

CHEMISTRY

Unit 1: Atomic Structure & States of Matter:

Atomic structure: Bohr model, spectrum of hydrogen atom, quantum numbers; Wave-particle duality, de Broglie hypothesis; Uncertainty principle; Qualitative quantum mechanical picture of hydrogen atom, shapes of s, p and d orbitals; Electronic configurations of elements (up to atomic number 36); Aufbau principle; Pauli's exclusion principle and Hund's rule; Orbital overlap and covalent bond; Hybridisation (involving s, p and d orbitals only); Orbital energy diagrams for homonuclear diatomic species; Hydrogen bond; Polarity in molecules, dipole moment (qualitative aspects only); VSEPR model and shapes of molecules (linear, angular, triangular, square planar, pyramidal, square pyramidal, trigonal bipyramidal, tetrahedral and octahedral).

Concept of atoms and molecules; Dalton's atomic theory; Mole concept; Chemical formulae; Balanced chemical equations; Calculations (based on mole concept) involving common oxid velocities and their relation with temperature; Law of partial pressures; Vapour pressure; Diffusion of gases.

Solid state: Classification of solids, crystalline state, seven crystal systems (cell parameters a, b, c, α , β , γ), close packed structure of solids (cubic), packing in fcc, bcc and hcp lattices; Nearest neighbours, ionic radii, simple ionic compounds, point defects.

Unit 2: Chemical Energetics and Kinetics:

Energetics: First law of thermodynamics; Internal energy, work and heat, pressure volume work; Enthalpy, Hess's law; Heat of reaction, fusion and vapourization; Second law of thermodynamics; Entropy; Free energy; Criterion of spontaneity.

Chemical equilibrium: Law of mass action; Equilibrium constant, Le Chatelier's principle (effect of concentration, temperature and pressure); Significance of ΔG and ΔG° in chemical equilibrium; Solubility product, common ion effect, pH and buffer solutions; Acids and bases (Bronsted and Lewis concepts); Hydrolysis of salts.

Electrochemistry: Electrochemical cells and cell reactions; Standard electrode potentials; Nernst equation and its relation to ΔG ; Electrochemical series, emf of galvanic cells; Faraday's laws of electrolysis; Electrolytic conductance,

specific, equivalent and molar conductivity, Kohlrausch's law; Concentration cells.

Chemical kinetics and Solutions: Rates of chemical reactions; Order of reactions; Rate constant; First order reactions; Temperature dependence of rate constant (Arrhenius equation).

Raoult's law; Molecular weight determination from lowering of vapour pressure, elevation of boiling point and depression of freezing point.

Surface chemistry and Nuclear Chemistry: Elementary concepts of adsorption (excluding adsorption isotherms); Colloids: types, methods of preparation and general properties; Elementary ideas of emulsions, surfactants and micelles (only definitions and examples).

Radioactivity: isotopes and isobars; Properties of α , β and γ rays; Kinetics of radioactive decay (decay series excluded), carbon dating; Stability of nuclei

with respect to proton-neutron ratio; Brief discussion on fission and fusion reactions.

Unit 3: Isolation/preparation and properties of Elements:

Boron, silicon, nitrogen, phosphorus, oxygen, sulphur and halogens; Properties of allotropes of carbon (only diamond and graphite), phosphorus and sulphur.

Transition elements: Definition, general characteristics, oxidation states and their stabilities, colour (excluding the details of electronic transitions) and calculation of spin only magnetic moment; Coordination compounds: nomenclature of mononuclear coordination compounds, cis-trans and ionisation isomerisms, hybridization and geometries of mononuclear coordination compounds (linear, tetrahedral, square planar and octahedral).

Unit 4: Preparation and properties of the compounds & Metallurgy:

Oxides, peroxides, hydroxides, carbonates, bicarbonates, chlorides and sulphates of sodium, potassium, magnesium and calcium; Boron: diborane, boric acid and borax; Aluminium: alumina, aluminium chloride and alums; Carbon: oxides and oxyacid (carbonic acid); Silicon: silicones, silicates and silicon carbide; Nitrogen: oxides, oxyacids

and ammonia; Phosphorus: oxides, oxyacids (phosphorus acid, phosphoric acid) and phosphine; Oxygen: ozone and hydrogen peroxide; Sulphur: hydrogen sulphide, oxides, sulphurous acid, sulphuric acid and sodium thiosulphate; Halogens: hydrohalic acids, oxides and oxyacids of chlorine, bleaching powder; Xenon fluorides.

Oxides and chlorides of tin and lead; Oxides, chlorides and sulphates of Fe^{2+} , Cu^{2+} and Zn^{2+} ; Potassium permanganate, potassium dichromate, silver oxide, silver nitrate, silver thiosulphate.

Ores, minerals and Extractive metallurgy: Commonly occurring ores and minerals of iron, copper, tin, lead, magnesium, aluminium, zinc and silver. Chemical principles and reactions only (industrial details excluded); Carbon reduction method (iron and tin); Self reduction method (copper and lead); Electrolytic reduction method (magnesium and aluminium); Cyanide process (silver and gold).

Principles of qualitative analysis: Groups I to V (only Ag^+ , Hg^{2+} , Cu^{2+} , Pb^{2+} , Bi^{3+} , Fe^{3+} , Cr^{3+} , Al^{3+} , Ca^{2+} , Ba^{2+} , Zn^{2+} , Mn^{2+} and Mg^{2+}); Nitrate, halides (excluding fluoride), sulphate and sulphide.

Unit 5: Concepts of Organic Chemistry:

Hybridisation of carbon; Sigma and pi-bonds; Shapes of simple organic molecules; Structural and geometrical isomerism; Optical isomerism of compounds containing up to two asymmetric centres, (R,S and E,Z nomenclature excluded); IUPAC nomenclature of simple organic compounds (only hydrocarbons, mono-functional and bifunctional compounds); Conformations of ethane and butane (Newman projections); Resonance and hyperconjugation; Keto-enol tautomerism; Determination of empirical and molecular formulae of simple compounds (only combustion method); Hydrogen bonds: definition and their effects on physical properties of alcohols and carboxylic acids; Inductive and resonance effects on acidity and basicity of organic acids and bases; Polarity and inductive effects in alkyl halides; Reactive intermediates produced during homolytic and heterolytic bond cleavage; Formation, structure and stability of carbocations, carbanions and free radicals.

Unit 6: Preparation, properties and reactions:

Alkanes: Homologous series, physical properties of alkanes (melting points, boiling points and density); Combustion and

halogenation of alkanes; Preparation of alkanes by Wurtz reaction and decarboxylation reactions.

Alkenes and Alkynes: Physical properties of alkenes and alkynes (boiling points, density and dipole moments); Acidity of alkynes; Acid catalysed hydration of alkenes and alkynes (excluding the stereochemistry of addition and elimination); Reactions of alkenes with KMnO_4 and ozone; Reduction of alkenes and alkynes; Preparation of alkenes and alkynes by elimination reactions; Electrophilic addition reactions of alkenes with X_2 , HX , HOX and H_2O (X =halogen); Addition reactions of alkynes; Metal acetylides.

Benzene: Structure and aromaticity; Electrophilic substitution reactions: halogenation, nitration, sulphonation, Friedel-Crafts alkylation and acylation; Effect of o-, m and p-directing groups in mono substituted benzenes.

Phenols: Acidity, electrophilic substitution reactions (halogenation, nitration and sulphonation); Reimer-Tiemann reaction, Kolbe reaction.

Alkyl halides: rearrangement reactions of alkyl carbocation, Grignard reactions, nucleophilic substitution reactions; Alcohols: esterification, dehydration and oxidation, reaction with sodium, phosphorus halides, ZnCl_2 /concentrated HCl , conversion of alcohols into aldehydes and ketones; Ethers: Preparation by Williamson's Synthesis; Aldehydes and Ketones: oxidation, reduction, oxime and hydrazone formation; Aldol condensation, Perkin reaction; Cannizzaro reaction; Haloform reaction and nucleophilic addition reactions (Grignard addition); Carboxylic acids: formation of esters, acid chlorides and amides, ester hydrolysis; Amines: basicity of substituted anilines and aliphatic amines, preparation from nitro compounds, reaction with nitrous acid, azo coupling reaction of diazonium salts of aromatic amines, Sandmeyer and related reactions of diazonium salts; carbylamines reaction; Haloarenes: nucleophilic aromatic substitution in haloarenes and substituted haloarenes (excluding Benzyne mechanism and Cine substitution).

Biomolecules: Carbohydrates: Classification; mono- and disaccharides (glucose and sucrose); Oxidation, reduction, glycoside formation and hydrolysis of sucrose.

Amino acids and peptides: General structure (only primary structure for peptides) and physical properties. Properties and uses of some important polymers: Natural rubber, cellulose, nylon, teflon and PVC.

PHYSICS

Unit 1: General Concepts in Physics:

Units and dimensions, dimensional analysis; least count, significant figures; Methods of measurement and error analysis for physical quantities pertaining to the following experiments: Experiments based on using Vernier calipers and screw gauge (micrometer), Determination of g using simple pendulum, Young's modulus by Searle's method, Specific heat of a liquid using calorimeter, focal length of a concave mirror and a convex lens using u - v method, Speed of sound using resonance column, Verification of Ohm's law using voltmeter and ammeter, and specific resistance of the material of a wire using meter bridge and post office box.

Unit 2: Mechanics I:

Kinematics in one and two dimensions (Cartesian coordinates only), projectiles; Uniform Circular motion; Relative velocity. Newton's laws of motion; Inertial and uniformly accelerated frames of reference; Static and dynamic friction; Kinetic and potential energy; Work and power; Conservation of linear momentum and mechanical energy. Systems of particles; Centre of mass and its motion; Impulse; Elastic and inelastic collisions. Law of gravitation; Gravitational potential and field; Acceleration due to gravity; Motion of planets and satellites in circular orbits; Escape velocity. Rigid body, moment of inertia, parallel and perpendicular axes theorems, moment of inertia of uniform bodies with simple geometrical shapes.

Unit 3: Mechanics II:

Angular momentum; Torque; Conservation of angular momentum; Dynamics of rigid bodies with fixed axis of rotation; Rolling without slipping of rings, cylinders and spheres; Equilibrium of rigid bodies; Collision of point masses with rigid bodies Linear and angular simple harmonic motions. Hooke's law, Young's modulus. Pressure in a fluid; Pascal's law; Buoyancy; Surface energy and surface tension, capillary rise; Viscosity (Poiseuille's equation excluded) Stoke's law; Terminal velocity, Streamline flow, equation of continuity, Bernoulli's theorem and its applications. Wave motion (plane waves only), longitudinal and transverse waves, superposition of waves; Progressive and stationary waves; Vibration of strings and air columns; Resonance; Beats; Speed of sound in gases; Doppler effect (in sound).

Unit 4: Thermal physics:

Thermal expansion of solids, liquids and gases; Calorimetry, latent heat; Heat conduction in one dimension; Elementary concepts of convection and radiation; Newton's law of cooling; Ideal gas laws; Specific heats (C_v and C_p for monoatomic and diatomic gases); Isothermal and adiabatic processes, bulk modulus of gases; Equivalence of heat and work; First law of thermodynamics and its applications (only for ideal gases); Blackbody radiation: absorptive and emissive powers; Kirchhoff's law; Wien's displacement law, Stefan's law.

Unit 5: Electricity and magnetism:

Coulomb's law; Electric field and potential; Electrical potential energy of a system of point charges and of electrical dipoles in a uniform electrostatic field; Electric field lines; Flux of electric field; Gauss's law and its application in simple cases, such as, to find field due to infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell. Capacitance; Parallel plate capacitor with and without dielectrics; Capacitors in series and parallel; Energy stored in a capacitor. Electric current; Ohm's law; Series and parallel arrangements of resistances and cells; Kirchhoff's laws and simple applications; Heating effect of current. Biot-Savart's law and Ampere's law; Magnetic field near a current-carrying straight wire, along the axis of a circular coil and inside a long straight solenoid; Force on a moving charge and on a current-carrying wire in a uniform magnetic field. Magnetic moment of a current loop; Effect of a uniform magnetic field on a current loop; Moving coil galvanometer, voltmeter, ammeter and their conversions. Electromagnetic induction: Faraday's law, Lenz's law; Self and mutual inductance; RC, LR and LC circuits with d.c. and a.c. sources.

Unit 6: Optics and Modern Physics:

Rectilinear propagation of light; Reflection and refraction at plane and spherical surfaces; Total internal reflection; Deviation and dispersion of light by a prism; Thin lenses; Combinations of mirrors and thin lenses; Magnification. Wave

nature of light: Huygens's principle, interference limited to Young's double-slit experiment.

Modern physics: Atomic nucleus; Alpha, beta and gamma radiations; Law of radioactive decay; Decay constant; Half-

life and mean life; Binding energy and its calculation; Fission and fusion processes; Energy calculation in these processes. Photoelectric effect; Bohr's theory of hydrogen like atoms; Characteristic and continuous X-rays, Moseley's law; de Broglie wavelength of matter waves.

MATHEMATICS

Unit 1: Algebra:

Algebra of complex numbers, addition, multiplication, conjugation, polar representation, properties of modulus and principal argument, triangle inequality, cube roots of unity, geometric interpretations. Quadratic equations with real coefficients, relations between roots and coefficients, formation of quadratic equations with given roots, symmetric functions of roots. Arithmetic, geometric and harmonic progressions, arithmetic, geometric and harmonic means, sums of finite arithmetic and geometric progressions, infinite geometric series, sums of squares and cubes of the first n natural numbers. Logarithms and their properties. Permutations and combinations, Binomial theorem for a positive integral index, properties of binomial coefficients. Solutions of simultaneous linear equations in two or three variables. Addition and multiplication rules of probability, conditional probability, Baye's Theorem, independence of events, computation of probability of events using permutations and combinations.

Unit 2: Trigonometry:

Trigonometric functions, their periodicity and graphs, addition and subtraction formulae, formulae involving multiple and submultiple angles, general solution of

trigonometric equations. Relations between sides and angles of a triangle, sine rule, cosine rule, half-angle formula and the area of a triangle, inverse trigonometric functions (principal value only).

Unit 3: Analytical geometry (2 and 3 dimensions):

Cartesian coordinates, distance between two points, section formulae, shift of origin. Equation of a straight line in various

forms, angle between two lines, distance of a point from a line; Lines through the point of intersection of two given lines, equation of the bisector of the angle between two lines, concurrency of lines; Centroid, orthocentre, in centre and circumcentre of a triangle. Equation of a circle in various forms, equations of tangent, normal and chord. Parametric equations of a circle, intersection of a circle with a straight line or a circle, equation of a circle through the points of intersection of two circles and those of a circle and a straight line. Equations of a parabola, ellipse and hyperbola in standard form, their foci, directrices and eccentricity, parametric equations, equations of tangent and normal. Locus Problems.

Analytical geometry (3 dimensions): Direction cosines and direction ratios, equation of a straight line in space, equation of a plane, distance of a point from a plane.

Unit 4: Differential calculus:

Real valued functions of a real variable, into, onto and one-to-one functions, sum, difference, product and quotient of two functions, composite functions, absolute value, polynomial, rational, trigonometric, exponential and logarithmic functions. Limit and continuity of a function, limit and continuity of the sum, difference, product and quotient of two functions, L'Hospital rule of evaluation of limits of functions. Even and odd functions, inverse of a function, continuity of composite functions, intermediate value property of continuous functions. Derivative of a function, derivative of the sum, difference, product and quotient of two functions, chain rule, derivatives of polynomial, rational, trigonometric, inverse trigonometric, exponential and logarithmic functions. Derivatives of implicit functions, derivatives up to order two, geometrical interpretation of the derivative, tangents and normal's, increasing and decreasing functions, maximum and minimum values of a function, Rolle's Theorem and Lagrange's Mean Value Theorem.

Unit 5: Integral calculus:

Integration as the inverse process of differentiation, indefinite integrals of standard functions, definite integrals and their properties, Fundamental Theorem of Integral Calculus. Integration by parts, integration by the methods of substitution and partial fractions, application of definite integrals to the determination of areas involving simple curves. Formation of ordinary differential equations, solution of homogeneous differential equations, separation of variables method, linear first order differential equations.

Unit 6: Vectors and Matrices:

Addition of vectors, scalar multiplication, dot and cross products, scalar triple products and their geometrical interpretations.

Matrices as a rectangular array of real numbers, equality of matrices, addition, multiplication by a scalar and product of matrices, transpose of a matrix, determinant of a square matrix of order up to three, inverse of a square matrix of order up to three, properties of these matrix operations, diagonal, symmetric and skew-symmetric matrices and their properties.

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 (three to five salient and distinguishing features and at least two examples of each category); 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 (three to five salient features and at least two examples).

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 recemose, flower, fruit and seed (To be dealt along with the relevant practical of the Practical Syllabus).
- Animal tissues; Morphology, anatomy and functions of different systems (digestive, circulatory, respiratory, nervous and reproductive) of an insect (cockroach). (Brief account only)

Cell Structure and Function

- 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.
- B 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 (brief mention).
- 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; 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 (recall only); 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 (To be dealt with the relevant practical of Practical syllabus); 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 (Elementary Idea); 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, parthenocarpy, 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 (Elementary idea); Parturition (Elementary idea); Lactation (Elementary idea).
- 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 (Elementary idea for general awareness).

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.

Annexure - III

(Codes of The School Education Boards of Class 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

BOARD	CODE
Maharashtra State Board of Secondary and Higher Secondary Education	16
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
Orissa 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
Tripura Board of Secondary Education	25
U.P. Board of High School & Intermediate Education	26
Uttaranchal Shiksha Evam Pariksha Parishad	27
West Bengal Council of Higher Secondary Education	28
Others [IB, Cambridge etc.]	29

Annexure - IV

Codes of The States / Union Territories

STATE	CODE
Andaman and Nicobar Islands	11
Andhra Pradesh	12
Arunachal Pradesh	13
Assam	14
Bihar	15
Chandigarh	16
Chhattisgarh	17
Dadar and Nagar Haveli	18
Daman and Diu	19
Delhi	20
Goa	21
Gujarat	22
Haryana	23
Himachal Pradesh	24
Jammu and Kashmir	25
Jharkhand	26
Karnataka	27
Kerala	28

STATE	CODE
Lakshadweep	29
Madhya Pradesh	30
Maharashtra	31
Manipur	32
Meghalaya	33
Mizoram	34
Nagaland	35
Orissa	36
Pondicherry	37
Punjab	38
Rajasthan	39
Sikkim	40
Tamil Nadu	41
Tripura	42
Uttar Pradesh	43
Uttarakhand	44
West Bengal	45

ANNEXURE - V - (FEE & SCHOLARSHIP TABLE - 1)

Programme Fee for B.Tech, B.Tech-M.Tech (Dual Degree) and B.Tech - MBA (Dual Degree) Programmes			
	WITH EDB (PHASE - I)	WITHOUT EDB (Phase - II and III)	
		PHASE - II	PHASE - III
Tuition Fee (per Semester)	74500	79500	
Tuition Fee (per semester) under Scholarship / Financial Aid Scheme			
	PHASE I	PHASE -II	PHASE - III
Top 5% students qualifying LPUNEST-2014	24500 (Scholarship of 50000/sem)	N.A	N.A
90% or above aggregate marks in qualifying Exam (10+2) or Category-I Cut-Off marks in JEE (MAIN) / State Level Entrance Tests subject to qualifying LPUNEST-2014	24500 (Scholarship of 50000/sem)	29500 (Scholarship of 50000/Sem)	39500 (Scholarship of 40000/Sem)
90% or above aggregate marks in qualifying Exam (10+2) or Category - I Cut-off marks in JEE(MAIN)/State Level Entrance Tests [without qualifying LPUNEST-2014]	34500 (Fee & Scholarship of Ph-II as LPUNEST-2014 not qualified)	34500 (Scholarship of 45000/sem)	44500 (Scholarship of 35000/Sem)
Next 10% (6% to 15%) students qualifying LPUNEST-2014	34500 (Scholarship of 40000/sem)	N.A	N.A
80% or above aggregate marks in qualifying Exam (10+2) or Category-II Cut-Off marks in JEE (MAIN) / State Level Entrance Tests subject to qualifying LPUNEST-2014	34500 (Scholarship of 40000/sem)	39500 (Scholarship of 40000/Sem)	49500 (Scholarship of 30000/Sem)
80% or above aggregate marks in qualifying Exam (10+2) or Category - II Cut-off marks in JEE(MAIN)/State Level Entrance Tests [without qualifying LPUNEST-2014]	44500 (Fee & Scholarship of Ph-II as LPUNEST-2014 not qualified)	44500 (Scholarship of 35000/sem)	54500 (Scholarship of 25000/sem)
Next 10% (16% to 25%) students qualifying LPUNEST-2014	44500 (Scholarship of 30000/sem)	N.A	N.A
70% or above aggregate marks in qualifying Exam (10+2) or Category-III Cut-Off marks in JEE (MAIN) / State Level Entrance Tests subject to qualifying LPUNEST-2014	44500 (Scholarship of 30000/sem)	49500 (Scholarship of 30000/Sem)	59500 (Scholarship of 20000/Sem)
70% or above aggregate marks in qualifying Exam (10+2) or Category - III Cut-off marks in JEE(MAIN)/State Level Entrance Tests [without qualifying LPUNEST-2014]	54500 (Fee & Scholarship of Ph-II as LPUNEST-2014 not qualified)	54500 (Scholarship of 25000/Sem)	64500 (Scholarship of 15000/Sem)
Financial Aid to top 25% applicants subject to qualifying LPUNEST- 2014	N.A	59500 (Financial Aid of 20000/sem)	69500 (Financial Aid of 10000/sem)

FEE DETAILS AND ALLIED ISSUES

- To Qualify LPUNEST-2014, applicant must score equal to or more than cut-off marks in LPUNEST-2014 as prescribed by the University from time to time.
- For details of Scholarship on the basis of JEE(MAIN) and STATE Level Entrance Tests, please refer University Website i.e. www.lpu.in
- This Tuition Fee is for B.Tech only. After 4 years: The tuition fee for M.Tech/MBA Programme (as applicable) will be applicable as mentioned on University website i.e. www.lpu.in

ANNEXURE - V - (FEE & SCHOLARSHIP TABLE - 2)

Programme Fee for B.Tech(Hons.), B.Tech(Hons.)-M.Tech, B.Tech(Hons.) - MBA and B.Tech (With Twinning Arrangement) Programmes			
	WITH EDB (PHASE - I)	WITHOUT EDB (Phase - II and III)	
		PHASE - II	PHASE - III
Tuition Fee (per Semester)	84500	89500	
Tuition Fee (per semester) under Scholarship / Financial Aid Scheme			
	PHASE I	PHASE -II	PHASE - III
Top 5% students qualifying LPUNEST-2014	34500 (Scholarship of 50000/sem)	N.A	N.A
90% or above aggregate marks in qualifying Exam (10+2) or Category-I Cut-Off marks in JEE (MAIN) / State Level Entrance Tests subject to qualifying LPUNEST-2014	34500 (Scholarship of 50000/sem)	39500 (Scholarship of 50000/Sem)	49500 (Scholarship of 40000/Sem)
90% or above aggregate marks in qualifying Exam (10+2) or Category - I Cut-off marks in JEE(MAIN)/State Level Entrance Tests [without qualifying LPUNEST-2014]	44500 (Fee & Scholarship of Ph-II as LPUNEST-2014 not qualified)	44500 (Scholarship of 45000/sem)	54500 (Scholarship of 35000/Sem)
Next 10% (6% to 15%) students qualifying LPUNEST-2014	44500 (Scholarship of 40000/sem)	N.A	N.A
80% or above aggregate marks in qualifying Exam (10+2) or Category-II Cut-Off marks in JEE (MAIN) / State Level Entrance Tests subject to qualifying LPUNEST-2014	44500 (Scholarship of 40000/sem)	49500 (Scholarship of 40000/Sem)	59500 (Scholarship of 30000/Sem)
80% or above aggregate marks in qualifying Exam (10+2) or Category - II Cut-off marks in JEE(MAIN)/State Level Entrance Tests [without qualifying LPUNEST-2014]	54500 (Fee & Scholarship of Ph-II as LPUNEST-2014 not qualified)	54500 (Scholarship of 35000/sem)	64500 (Scholarship of 25000/sem)
Next 10% (16% to 25%) students qualifying LPUNEST-2014	54500 (Scholarship of 30000/sem)	N.A	N.A
70% or above aggregate marks in qualifying Exam (10+2) or Category-III Cut-Off marks in JEE (MAIN) / State Level Entrance Tests subject to qualifying LPUNEST-2014	54500 (Scholarship of 30000/sem)	59500 (Scholarship of 30000/Sem)	69500 (Scholarship of 20000/Sem)
70% or above aggregate marks in qualifying Exam (10+2) or Category - III Cut-off marks in JEE(MAIN)/State Level Entrance Tests [without qualifying LPUNEST-2014]	64500 (Fee & Scholarship of Ph-II as LPUNEST-2014 not qualified)	64500 (Scholarship of 25000/Sem)	74500 (Scholarship of 15000/Sem)
Financial Aid to top 25% applicants subject to qualifying LPUNEST- 2014	N.A	69500 (Financial Aid of 20000/sem)	79500 (Financial Aid of 10000/sem)

FEE DETAILS AND ALLIED ISSUES

- To Qualify LPUNEST-2014, applicant must score equal to or more than cut-off marks in LPUNEST-2014 as prescribed by the University from time to time.
- For details of Scholarship on the basis of JEE(MAIN) and STATE Level Entrance Tests, please refer University Website i.e. www.lpu.in
- This Tuition Fee is for B.Tech (Hons.) only. After 4 years: The tuition fee for M.Tech/MBA Programme (as applicable) will be applicable as mentioned on University website i.e. www.lpu.in

ANNEXURE - V - (FEE & SCHOLARSHIP TABLE - 3)

Programme Fee for B.Tech (International Exposure) Programmes			
	WITH EDB (PHASE - I)	WITHOUT EDB (Phase - II and III)	
		PHASE - II	PHASE - III
Tuition Fee (per Semester)	121000	126000	
Tuition Fee (per semester) under Scholarship / Financial Aid Scheme			
	PHASE I	PHASE -II	PHASE - III
Top 5% students qualifying LPUNEST-2014	71000 (Scholarship of 50000/sem)	N.A	N.A
90% or above aggregate marks in qualifying Exam (10+2) or Category-I Cut-Off marks in JEE (MAIN) / State Level Entrance Tests subject to qualifying LPUNEST-2014	71000 (Scholarship of 50000/sem)	76000 (Scholarship of 50000/Sem)	86000 (Scholarship of 40000/Sem)
90% or above aggregate marks in qualifying Exam (10+2) or Category - I Cut-off marks in JEE(MAIN)/State Level Entrance Tests [without qualifying LPUNEST-2014]	81000 (Fee & Scholarship of Ph-II as LPUNEST-2014 not qualified)	81000 (Scholarship of 45000/sem)	91000 (Scholarship of 35000/Sem)
Next 10% (6% to 15%) students qualifying LPUNEST-2014	81000 (Scholarship of 40000/sem)	N.A	N.A
80% or above aggregate marks in qualifying Exam (10+2) or Category-II Cut-Off marks in JEE (MAIN) / State Level Entrance Tests subject to qualifying LPUNEST-2014	81000 (Scholarship of 40000/sem)	86000 (Scholarship of 40000/Sem)	96000 (Scholarship of 30000/Sem)
80% or above aggregate marks in qualifying Exam (10+2) or Category - II Cut-off marks in JEE(MAIN)/State Level Entrance Tests [without qualifying LPUNEST-2014]	91000 (Fee & Scholarship of Ph-II as LPUNEST-2014 not qualified)	91000 (Scholarship of 35000/sem)	101000 (Scholarship of 25000/sem)
Next 10% (16% to 25%) students qualifying LPUNEST-2014	91000 (Scholarship of 30000/sem)	N.A	N.A
70% or above aggregate marks in qualifying Exam (10+2) or Category-III Cut-Off marks in JEE (MAIN) / State Level Entrance Tests subject to qualifying LPUNEST-2014	91000 (Scholarship of 30000/sem)	96000 (Scholarship of 30000/Sem)	106000 (Scholarship of 20000/Sem)
70% or above aggregate marks in qualifying Exam (10+2) or Category - III Cut-off marks in JEE(MAIN)/State Level Entrance Tests [without qualifying LPUNEST-2014]	101000 (Fee & Scholarship of Ph-II as LPUNEST-2014 not qualified)	101000 (Scholarship of 25000/Sem)	111000 (Scholarship of 15000/Sem)
Financial Aid to top 25% applicants subject to qualifying LPUNEST- 2014	N.A	106000 (Financial Aid of 20000/sem)	116000 (Financial Aid of 10000/sem)

FEE DETAILS AND ALLIED ISSUES

- a) To Qualify LPUNEST-2014, applicant must score equal to or more than cut-off marks in LPUNEST-2014 as prescribed by the University from time to time.
- b) For details of Scholarship on the basis of JEE (MAIN) and STATE Level Entrance Tests, please refer University Website i.e. www.lpu.in

MATHEMATICS

- Question 1: The sum of three consecutive terms in a geometric progression is 14. If 1 is added to the first and the second terms and 1 is subtracted from the third, the resulting new terms are in arithmetic progression. Then the lowest of the original term is
- (A) 1 (B) 2
(C) 4 (D) 8
- Question 2: In the polynomial $(x-1)(x-2)(x-3)\dots\dots\dots(x-100)$ the coefficient of x^{99} is
- (A) 5050 (B) -5050
(C) 100 (D) 99
- Question 3: In a throw of pair of dice, the probability that the sum of the two numbers appearing on the two of the dice is less than or equal to 12 is
- (A) $\frac{12}{36}$ (B) $\frac{35}{36}$
(C) 0 (D) 1
- Question 4: An unbiased coin is tossed. If the result is a head, a pair of unbiased dice is rolled and the number obtained by adding the numbers on the two faces is noted. If the result is a tail, a card from a well shuffled pack of eleven cards numbered 2, 3, 4,.....,12 is picked and the number on the card is noted. The probability that the noted number is either 7 or 8, is
- (A) 0.24 (B) 0.244
(C) 0.024 (D) None of these
- Question 5: The position of the point (1, 3) with respect to the ellipse $4x^2 + 9y^2 - 16x - 54y + 61 = 0$
- (A) Outside the ellipse (B) On the ellipse
(C) On the major axis (D) On the minor axis

BIOLOGY

- Question 1: Maximum life span of dog is:
- (A) 5 years (B) 10 years
(C) 15 years (D) 20 years
- Question 2: The most abundant element present in plants is:
- (A) Manganese (B) Iron
(C) Carbon (D) Nitrogen
- Question 3: Living steady state has a self regulatory mechanism called:
- (A) Feedback mechanism (B) Homeothermy
(C) Homozygosity (D) Homeostasis
- Question 4: Energy flow and energy transformations of a living system follow:
- (A) Law of limiting factor (B) Law of thermodynamics
(C) Liebig's law of minimum (D) Biogenetic law
- Question 5: The statement correct about enzymes is:
- (A) they are amino acids (B) they are most active at a temperature of 0°C
(C) they are all proteins (D) they are most active at pH 6.9

Important dates for LPUNEST - 2014

	Phase I*	Phase II*	Phase III*
	Online Slot Management System will be available from 1st March, 2014 onwards		
Test dates	20th April to 31st May 2014	01st June to 30th June 2014	01st July to 25th July 2014
Date to apply for LPUNEST-2014	Without Late fee: 31st March 2014	On or before 25th June 2014	On or before 20th July 2014
	With late Fee of Rs. 200/-: 25th May		
Last Date for admission with scholarship applicable on the basis of LPUNEST-2014	15th June, 2014	30th June, 2014	25th July, 2014
Result for Eligibility	Immediately after the conduct of the exam**	Immediately after the conduct of the exam**	Immediately after the conduct of the exam**
Result for Scholarship	5th June, 2014***	Immediately after the conduct of the exam**	Immediately after the conduct of the exam**
Result for Financial Aid	5th June, 2014***	5th July, 2014***	31st July, 2014***

* Details are given in "Fee & Scholarship Applicable on the basis of LPUNEST- 2014".

IMP: Phase II and Phase III of the test will be available only if the seats remain vacant.

**Result will be displayed on the screen of the computer on which Applicant is taking test. Result will also be sent to the applicant on the valid e-mail ID provided by the applicant.

***Result will be displayed on www.lpu.in and will be sent to the applicants on their e-mail as well.

This is the tentative schedule, any of the date(s) and other details as mentioned above is subject to change at the discretion of the University. No separate intimation or announcement to any applicant(s) will be given.

Admission office of the University at campus will also be open on Sundays from 1st May 2014 to 31st August 2014.

LOVELY PROFESSIONAL UNIVERSITY

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