

Eligibility Guidelines for Admission
to
PG Programs
(M. Tech/ M. Pharm/ M.Arch./ M. Des)

Academic Session 2019-20



DR. A. P. J. ABDUL KALAM TECHNICAL UNIVERSITY,
UTTAR PRADESH, LUCKNOW
(Formerly Uttar Pradesh Technical University, Lucknow)

(This booklet provides information on specialization, eligibility, entrance exam papers, pattern and syllabus. For the general instructions, application form filling, reservation policy, category definitions, etc. candidates are to refer the information brochure given at <https://upsee.nic.in/publicinfo/Handler/FileHandler.ashx?i=File&ii=265&iii=Y>)

Abbreviations used:

AKTU	- Dr. A.P.J. Abdul Kalam Technical University, U.P., Lucknow
M. Tech.	- Master of Technology
M. Pharm.	- Master of Pharmacy
M. Arch.	- Master of Architecture
M.Des.	- Master of Design
UPSEE	Uttar Pradesh State Entrance Examination

Candidates are advised to refer to the information brochure given at

<https://upsee.nic.in/publicinfo/Handler/FileHandler.ashx?i=File&ii=265&iii=Y>

1. MODE OF ADMISSION

There shall be an entrance test for admissions to P.G. (M.Tech./M.Pharm./M.Arch./M.Des.) programs offered by the various constituent/ affiliated institutes of the University for the session 2019-20. . The candidates seeking admissions to above programme shall have to appear in a multiple-choice objective nature written test. Specializations offered by AKTU in various constituent/ affiliated institutes are listed in Table 1. The domain knowledge test for such admissions will be of GATE/GPAT/CEED level. Entrance test shall be conducted subject wise on the various areas as given in Table-2 for P.G. (M.Tech./M.Pharm./M.Arch./M.Des) admission.

- i. All candidates seeking admission to PG Programme (M.Tech./M.Pharm./M.Arch./M.Des.) must appear necessarily in the subject domain knowledge test. The candidates must appear in the paper subject to their **eligibility** criterion as given in Table-2. The paper will be of **two-hour** duration with **100** multiple choice questions to be answered by the candidate.
- ii. The candidates, who are **GATE/GPAT/CEED** qualified and have a valid score card, are also to fill the application form of UPSEE available at <https://upsee.nic.in>.
- iii. The candidates with valid **GATE/GPAT/CEED** score shall be admitted on **preferential basis** over the candidates through the written test based on their All India Rank (AIR) and total number of candidates appeared.
- iv. The final admission of the candidates shall be done on the basis of counselling as per the merit of the written test. Counselling schedule will be intimated later through the University website.

Important note-

- (a) Incomplete application form in any respect will be liable to be rejected and the fees submitted will not be refundable.
- (b) The candidates who are willing to use their GATE/ GPAT/CEED score shall have to fill the additional form which shall be available on <https://upsee.nic.in>.after 31.03.2019

2. SUBJECTS AND ELIGIBILITY CRITERIA

2.1 Admission to P.G. Programs

The candidate must ensure the minimum eligibility conditions of their admission/selection to the respective courses as prescribed by the academic council of the University. The minimum eligibility conditions for admissions to postgraduate programs (M.Tech./M.Pharm./M.Arch./M.Des) are listed in Table 1.

Table 1: Courses and minimum eligibility conditions for admission to M.Tech., M.Pharm., M.Arch. and M.Des. Programs

S.No.	Courses /Specializations	Eligibility*
A	M.Tech	
1	Bio-Technology)	B.E/B. Tech (50% or equivalent CGPA) in Bio-Tech/Bio Engg/Bioinformatics/Chemical Engg./Chemical Technology
2	Civil Engg	B.E/B. Tech (50% or equivalent CGPA) in. Civil Engg
3	Geo Technical & Geo Environmental Engg.	B.E/B. Tech (50% or equivalent CGPA) in. Civil Engg
4	Structural Engg.	B.E/B. Tech (50% or equivalent CGPA) in. Civil Engg
5	Construction Technology & Management	B.E/B. Tech (50% or equivalent CGPA) in. Civil Engg
6	Environmental Engineering	B.E/B. Tech (50% or equivalent CGPA) in. Environmental Engg/Civil Engg/Mechanical/BioTech/ Chemical Engg or M.Sc. (50% or equivalent CGPA) in Environmental science/Biotechnology/ Biochemistry/ Chemistry
7	Environmentation Technology	B.E/B. Tech (50% or equivalent CGPA) in. Environmental Engg/Civil Engg/Mechanical/BioTech/ Chemical Engg or M.Sc. (50% or equivalent CGPA) in Environmental science/Biotechnology/ Biochemistry/ Chemistry
8	Food Technology	B.E/B.Tech (50% or equivalent CGPA) in Chemical Technology/Food Technology/BioTech/Bioinformatics /Biochemical/Environmental Engineering or M.Sc. (50% or equivalent CGPA) in Chemistry/ Bio Technology/Bioinformatics/Microbiology/ Bio Chemistry/Botany/Zoology
9	Computer Science & Engineering	B.E/B.Tech (50% or equivalent CGPA) in Computer Science/ Information Technology/CSE/CS & IT/MCA
10	Electronics & Comm. Engineering	B.E/B.Tech (50% or equivalent CGPA) in Electronics & Comm. Engg/Electronics Engg/Instrumentation and Control Engineering./ Electrical& Electronics Eng/ Electronics & Instrument/ Instrumentation & Control Engineering.
11	Digital Communication	B.E/B.Tech (50% or equivalent CGPA) in Electronics & Comm. Engg/Electronics Engg/Instrumentation and Control Engineering./ Electrical& Electronics Eng/ Electronics & Instrument/ Instrumentation & Control Engineering.
12	Communication Engg	B.E/B.Tech (50% or equivalent CGPA) in Electronics & Comm. Engg/Electronics Engg/Instrumentation and Control Engineering./ Electrical& Electronics Eng/ Electronics & Instrument/ Instrumentation & Control Engineering.
13	Micro Electronics Engg	B.E/B.Tech (50% or equivalent CGPA) in Electronics & Comm. Engg/Electronics Engg/Instrumentation and Control Engineering./ Electrical& Electronics Eng/ Electronics & Instrument/ Instrumentation & Control Engineering.
14	VLSI Design	B.E/B.Tech (50% or equivalent CGPA) in Electronics & Comm. Engg/ Electronics Engg / Electrical & Electronics Eng/ Electronics & Instrumentation Engineering
15	Bio Medical Engineering	B.E/B.Tech (50% or equivalent CGPA) in Electronics & Comm. Engg/Electronics Engg/Instrumentation and Control Engineering./ Electrical& Electronics Eng/ Electronics & Instrument/ Instrumentation & Control Engineering.
16	Electrical Engineering	B.E/B.Tech (50% or equivalent CGPA) in Electrical Engg./ Electrical & Electronics Engg
17	Power & Control	B.E/B.Tech (50% or equivalent CGPA) in Electrical Engg/ Electrical & Electronics Engg

18	Power Electronics & Drives	B.E/B.Tech (50% or equivalent CGPA) in Electrical Engg. / Electrical & Electronics Engg
19	Power Systems	B.E/B.Tech (50% or equivalent CGPA) in Electrical Engg./ Electrical & Electronics Engg
20	Mechanical Engineering	B.E/B.Tech (50% or equivalent CGPA) in Mechanical/ Production /Manufacturing/Industrial/Aeronautical / Automobile Eng./Manufacturing Technology
21	Thermal Engineering	B.E/B.Tech (50% or equivalent CGPA) in Mechanical/Aeronautical Engg/Automobile Engineering
22	Computer Aided Design & Manufacturing	B.E/B.Tech (50% or Equivalent CGPA) in Manufacturing Engg/Mechanical/Production//Industrial/Aeronautical/ Automobile Engineering/Industrial Production Engineering
23	Production Engineering	B.E/B.Tech (50% or Equivalent CGPA) in Mechanical/ Production /Manufacturing /Industrial/ Aeronautical Eng/ Automobile Engineering/Industrial Production Engineering
24	Remote Sensing & GIS	B.E/B.Tech (50% or Equivalent CGPA) in Civil/Environment/Computer Science & Engg/Information Tech/Electrical Eng/Agriculture or M.Sc. (50% or Equivalent CGPA) in Geography/Geology/Geoinformatics/ Geometrics/Environmental Sciences/Earth Sciences/Forestry/Agriculture /Soil Sciences/Botany/Water resources
25	Plastic Engineering	B.E/B.Tech (50% or Equivalent CGPA) in Plastic Engg/Chemical Engg/Chemical Technology/Mechanical Engg/Manufacturing Engg/Production/Industrial/Manufacturing Tech. or M.Sc. (50% or Equivalent CGPA) in Chemistry/Industrial Chemistry/Polymer Chemistry
26	Automation & Robotics Engineering	B.Tech (50% or Equivalent CGPA) in ME/EN/EC/CSE/EI/ Manufacturing Engg/Production/Industrial Production Engineering
27	Electrical & Electronics Engineering	B.Tech (50% or Equivalent CGPA) in EE/EN/EC/EI
28	Energy Science & Technology	BE/B.Tech (50% or Equivalent CGPA) in Chemical Engineering /Chemical Technology /Mechanical Engineering / Energy engineering /Petroleum/Petrochemical Engineering/ Automobile Engineering
29	Textile Technology	BE/B.Tech (50% or Equivalent CGPA) in Textile Technology/Textile Chemistry/ Textile Engineering/Man made fibre technology/Carpet Engineering/Carpet & Textile Technology/ Textile Engg& Fibre Science/Jute & Fibre Technology
30	Computer Science & Technology in Cyber Security/ICT**	B.E/B.Tech (50% or equivalent CGPA) in Computer Science/ Information Technology/CSE/Computer Engg/CS & IT/MCA
31	Mechatronics**	B.E/B.Tech (50% or equivalent CGPA) in ME/Automobile/ Manufacturing/ Production/Electrical and Electronics /ECE/EE/EI/IC/CSE/IT/ Mechatronics/Instrumentation Engg.
32	Nanotechnology**	B.E./B.Tech. degree with 50% aggregate score or equivalent CGPA (Nanotechnology/Electronics and Communication Engineering/ Electrical and Electronics Engineering/Mechanical Engineering/ Chemical engineering/ Metallurgical Engg./ Electronics and Instrumentation Engg or M.Sc. with 50% aggregate score or equivalent CGPA (Physics/Electronic Sciences/Material Sciences/Nano Sciences/Nanotechnology/Solid State Physics/ Chemistry)
33	Manufacturing Science & Technology	B.E/B.Tech (50% or equivalent CGPA) in Mechanical/ Production /Manufacturing/Industrial/Aeronautical / Automobile Eng./ Manufacturing Technology
34	Textile Chemistry	B.E/B.Tech (50% or Equivalent CGPA) in Textile Technology/Textile Chemistry/ Textile Engineering/Man made

		fibre technology/Carpet Engineering/Carpet & Textile Technology/Technical Textile/Jute & Fibre Technology
35	Manufacturing Technology & Automation**	B.E./B.Tech. degree with 50% aggregate in Mechanical Engineering/ Mechanical and Industrial Engineering/ Production Engineering/ Manufacturing Science/ Manufacturing Technology/ Manufacturing Engineering/ Automobile Engineering/ Aeronautical Engineering/ Aerospace Engineering/ Material Science Engineering/ Material Science/ Material Engineering/ Metallurgical& Materials Engineering/ Metallurgical Engineering/ Metallurgy and Materials/ Industrial Engineering/ Industrial and Production Engineering
B	M. Pharm	
	(All offered branches)	B. Pharm. (55% or Equivalent CGPA)
C	M. Arch	
	(All offered branches)	B. Arch. (50% or Equivalent CGPA)
D	M. Des.	
	Master of Design (MD)	B.E./B.Tech.in any branch of Engineering/B.Des./B.Arch. / BFA/BFAD with 50% marks or equivalent

*5% relaxation is applicable in the case of SC/ST candidates

** Refer www.cas.res.in for Minimum Qualification for Centre for Advanced Studies

2.2 Entrance Examination for P.G. Programs

Candidates are required to take up the entrance examination paper according to the qualifying degree/ branch (Eligibility course/ Eligibility branch) given at column 2 and 3 of Table 2. Columns 4 and 5 of Table indicate the name and code of the paper for which the candidate is required to appear for admission to PG programmes.

Table 2: Details of the papers

Sl. No.	Eligibility Course	Eligibility Branch	Paper to appear in UPSEE	Paper Code
1	B.E/B.Tech	Bio-Tech	Bio Technology	BT
2	B.E/B.Tech	Bio Engineering	Bio Technology	BT
3	B.E/B.Tech	Bioinformatics	Bio Technology	BT
4	B.E/B.Tech	Chemical Engineering	Chemical Engineering	CHE
5	B.E/B.Tech	Chemical Technology	Chemical Engineering	CHE
6	B.E/B.Tech	Civil Engineering	Civil Engineering	CE
7	B.E/B.Tech	Environmental Engineering	Engineering Sciences	ES
8	M.Sc.	Environmental science	Life Sciences	LS
9	M.Sc.	Bio-Tech	Life Sciences	LS
10	M.Sc.	Bio Chemistry	Life Sciences	LS
11	M.Sc.	Chemistry	Life Sciences	LS
12	B.E/B.Tech	Food Technology	Engineering Sciences	ES
13	B.E/B.Tech	Bio Chemical Engineering	Bio Technology	BT
14	M.Sc.	Bioinformatics	Life Sciences	LS
15	M.Sc.	Microbiology	Life Sciences	LS
16	M.Sc.	Botany	Life Sciences	LS
17	M.Sc.	Zoology	Life Sciences	LS
18	B.E/B.Tech	Mechanical Engineering	Mechanical Engineering	ME

19	B.E/B.Tech	Computer Science & Engineering	Computer Science & Information Technology	CSIT
20	B.E/B.Tech	Information Technology	Computer Science & Information Technology	CSIT
21	B.E/B.Tech	Electronics & Comm. Engineering	Electronics & Communication	EC
22	B.E/B.Tech	Electronics Engineering	Electronics & Communication	EC
23	B.E/B.Tech	Instrumentation & Control Engineering	Electronics & Communication	EC
24	B.E/B.Tech	Electrical & Electronics Engineering	Electrical Engineering	EE
25	B.E/B.Tech	Electronics & Instrumentation Engineering	Electronics & Communication	EC
26	B.E/B.Tech	Electrical Engineering	Electrical Engineering	EE
27	B.E/B.Tech	Production Engineering	Mechanical Engineering	ME
28	B.E/B.Tech	Manufacturing Engineering	Mechanical Engineering	ME
29	B.E/B.Tech	Industrial Engineering	Mechanical Engineering	ME
30	B.E/B.Tech	Aeronautical Engineering	Mechanical Engineering	ME
31	B.E/B.Tech	Automobile Engineering	Mechanical Engineering	ME
32	B.E/B.Tech	Agriculture	Engineering Sciences	ES
33	M.Sc.	Geography	Life Sciences	LS
34	M.Sc.	Geology	Life Sciences	LS
35	M.Sc.	Geoinformatics	Life Sciences	LS
36	M.Sc.	Geomatics	Life Sciences	LS
37	M.Sc.	Earth Sciences	Life Sciences	LS
38	M.Sc.	Forestry	Life Sciences	LS
39	M.Sc.	Agriculture	Life Sciences	LS
40	M.Sc.	Soil Sciences	Life Sciences	LS
41	M.Sc.	Water resources	Life Sciences	LS
42	B.E/B.Tech	Plastic Engineering	Engineering Sciences	ES
43	B.E/B.Tech	Energy Engineering	Engineering Sciences	ES
44	B.E/B.Tech	Petroleum Engineering	Engineering Sciences	ES
45	B.E/B.Tech	Petrochemical Engineering	Engineering Sciences	ES
46	B.Pharma	B.Pharma	Pharmacy	PH
47	B.Arch	B.Arch	Architecture	AR
48	B.Des	Bachelor of Design	Design	DES
49	BFA	BFA	Design	DES
50	BFAD	BFAD	Design	DES
51	BE/B.Tech	Any Discipline	Design	DES
52	M.Sc.	Physics	Life Sciences	LS
53	B.E/B.Tech	Textile Technology	Textile Engineering & Fibre Science	TE
54	B.E/B.Tech	Textile Chemistry	Textile Engineering & Fibre Science	TE
55	B.E/B.Tech	Textile Engineering	Textile Engineering & Fibre Science	TE
56	B.E/B.Tech	Man made fibre technology	Textile Engineering & Fibre Science	TE

57	B.E/B.Tech	Carpet Engineering	Textile Engineering & Fibre Science	TE
58	MCA	MCA	Computer Science & Information Technology	CSIT
59	B.E/B.Tech	Mechatronics	Engineering Sciences	ES
60	B.E/B.Tech	Metallurgical Engineering	Engineering Sciences	ES
61	B.E/B.Tech	Nanotechnology	Engineering Sciences	ES
62	B.E/B.Tech	Textile Engineering & Fibre Science	Textile Engineering & Fibre Science	TE
63	M.Sc.	Material Science	Life Sciences	LS
64	M.Sc.	Solid State Physics	Life Sciences	LS
65	M.Sc.	Nanotechnology	Life Sciences	LS
66	M.Sc.	Nanoscience	Life Sciences	LS
67	B.E/B.Tech	Manufacturing Technology	Mechanical Engineering	ME
68	B.E/B.Tech	Industrial & Production Engineering	Mechanical Engineering	ME
69	B.E/B.Tech	Carpet & Textile Technology	Textile Engineering & Fibre Science	TE
70	B.E/B.Tech	Technical Textile	Textile Engineering & Fibre Science	TE
71	B.E/B.Tech	Jute & Fibre Technology	Textile Engineering & Fibre Science	TE
72	B.E/B.Tech	Biomedical Engineering	Electronics & Communication	EC
73	B.E/B.Tech	Mechanical and Industrial Engineering	Mechanical Engineering	ME
74	B.E./ B.Tech	Manufacturing Science	Mechanical Engineering	ME
75	B.E./ B.Tech	Aerospace Engineering	Mechanical Engineering	ME
76	B.E/ B.Tech	Material Science Engineering	Engineering Sciences	ES
77	B.E./ B.Tech	Material Science	Engineering Sciences	ES
78	B.E/ B.Tech	Material Engineering	Engineering Sciences	ES
79	B.E./ B Tech	Metallurgical & Materials Engineering	Engineering Sciences	ES
80	B.E/ B. Tech	Metallurgy & Materials	Engineering Sciences	ES

2.3 Reservation Policy

As prescribed by the Govt. of Uttar Pradesh from time to time.

2.4 Examination Fee

As per the decision of the university the application fee for P.G. admission test is as follows:

(a) For GEN/OBC candidates - Rs. 1300/-

(b) For SC/ST/Female /Physically handicapped candidates - Rs.650/-

The candidate can appear for only ONE paper. The candidates may check the eligibility criterion in Table I before opting the paper to apply in UPSEE-2019. However, in case the candidates wish to change his/her selection of the paper, he/she can do so through online portal on or before March 31, 2019. Thereafter, it is not possible to change the appearing paper of UPSEE 2019.

3. EXAMINATION DETAILS

The multiple choice type examination for admission to P.G. (M.Tech./M. Pharm./M. Arch./M.Des shall be conducted offline in OMR pattern at the specified centres.

3.1 Examination pattern

The paper will be of two-hour duration with 100 multiple choice questions to be answered by the candidate. Papers will be of GATE/ GPAT/ CEED pattern. The candidates must appear in the paper subject to their eligibility criterion given at Table-2. However, candidate is expected to check the eligibility for various courses listed in Table 1, before selecting the paper to appear.

Table 3 shows the pattern of the question papers for admission to various PG programs through UPSEE-2019.

Table 3: Pattern of Question Papers

Program for admission	Papers	Parts	Subjects
M. Tech	All papers (except Engineering Sciences and Life Sciences) (BT, CHE, CE, ME, CSIT, EC, EE, TE)	Part A	Aptitude (15%) Mathematics (15%)
		Part B	Subject domain questions (70%)
	Engineering Science (ES)	Part A	Aptitude (15%) Mathematics (15%)
		Part B (Any TWO optional sections)	ES_1- Fluid Mechanics (35%) ES_2 -Material Science (35%) ES_3 -Solid Mechanics (35%) ES_4-Thermodynamics (35%) ES_5-Food Technology (35%)
	Life Science (LS)	Part A	Aptitude (15%) Chemistry (15%)
		Part B (Any TWO optional sections)	LS_1 -Biochemistry (35%) LS_2 Botany (35%) LS_3-Microbiology (35%) LS_4-Zoology (35%) LS_5-Food Technology (35%)
M. Pharm	Paper will of GPAT pattern (100 questions)		
M. Arch	Paper will be of GATE pattern for Architecture and Planning (100 questions)		
M. Des	CEED pattern (100 questions)		

Syllabus for various papers are enclosed at Annexure I.

3.2 Scoring and Negative Marking

- All objective type questions are required to be answered against the respective question number. Candidate is supposed to select only one choice for correct answer in each question.

- b. More than one answers indicated against a question will be deemed as incorrect answer and no marks is awarded for the incorrect answer.
- c. Negative Marking—there will be negative marking in the evaluation of above pattern of examination as follows:
4 marks will be awarded for each correct answer and 1 mark will be deducted for each wrong answer, however no marks shall be deducted for un-attempted questions.
- d. Tie Break—In case of equal marks secured by the candidates, the tie will be broken on the basis of number of wrong questions attempted (more wrongs less ranking) followed by seniority and application number.

3.3 Cut off Percentage

The cut-off percentage marks in UPSEE -2019 for the merit of successful PG candidate (M. Tech/ M. Pharm/ M. Arch/ M. Des) is 30% (25% for SC/ ST)

3.4 City of Examination

- a. All Papers are OMR based Tests and shall be held in various cities given in Table 4.

Table 4 List of Examination Cities

Cities in State of U.P.			
Agra	Firozabad	Mathura	Aligarh
Allahabad	Azamgarh	Ballia	Mau
Bareilly	Shahjanpur	Basti	Banda
Gonda	Ambedkar Nagar	Barabanki	Faizabad
Sultanpur	Deoria	Gorakhpur	Kushinagar
Jalaun (Orai)	Jhansi	Etawah	Kanpur Nagar
Kanpur Dehat	Lakhimpur Kheri	Lucknow	Raebareili
Sitapur	Bulandshahr	Noida	Greater Noida
Ghaziabad	Meerut	Mirzapur	Bijnaur
Moradabad	Muzaffarnagar	Saharanpur	Ghazipur
Jaunpur		Varanasi	
Cities outside U.P.			
Bhopal	Dehradun	Delhi	Hyderabad
Patna	Ranchi	Jaipur	Kolkata
Mumbai	Rohtak	Jammu	Guwahati
Roorkee	Chandigarh	Chennai	Bangalore

- b. Candidates are advised to be VERY CAREFUL while giving their options for city of examination centre, referring Table 4.
- c. If any candidate chooses cities of examination where the examination for the paper opted is not being conducted, he/she shall be allotted an examination city from the respective list and same shall be binding upon the candidate.
- d. Certain examination cities may be cancelled if sufficient number of candidates does not opt for that city. Request for change of city of examination shall not be entertained under any circumstances.

3.5 Schedule of Examination

The examination will be conducted on 21st April 2019 as per the schedule given in Table 5.

Table 5: Schedule and time duration of the examination

Date of Examination	Paper	Subjects	Timing (Total Time Period)
21 st April 2019 (Sunday)	Paper for M. Tech/ M. Pharm/ M. Arch/ M. Des	All papers mentioned in Table 2, Column 4	9:00 AM to 11:00 AM (2 Hours)

4. CATEGORY DEFINITIONS

Refer to the Information Brochure given at <https://upsee.nic.in/publicinfo/Handler/FileHandler.ashx?i=File&ii=265&iii=Y>

5. ADMIT CARD

5.1 Admit card will be available online on the website <http://www.upsee.nic.in> to every candidate. **Downloaded admit card shall be treated as valid admit card.** The candidates are advised to check the details of admit cards with regards to their category, sub-category, gender, rural weightage, Name, Father's Name etc. as mentioned on the Admit Card.

5.2 No candidate will be allowed to appear in the examination without admit card.

5.3 If any candidate is unable to download his/her admit card, he/she should contact the helpline as indicated on the website <http://www.upsee.nic.in> or send an email to the mail address upsee.helpdesk@aktu.ac.in latest by 20th April, 2019.

5.4 A plea that a candidate failed to receive the information for appearing at the Examination will not be accepted as a ground for the refund of fee or any other redressal. UPSEE-2019 may withdraw the permission to appear in UPSEE-2019 granted by mistake to a candidate who is not eligible to appear at the UPSEE-2019 even if an Admit Card has been issued and produced by the candidate before the concerned Centre Superintendent at the Examination Centre.

5.5 In case of any reported correction, the final corrected admit card will have to be downloaded from website <http://www.upsee.nic.in> or <https://aktu.ac.in> before the examination date.

5.6 Since successful candidates are required to produce the Admit Card at the time of counselling and admission, hence it should be carefully preserved until the admission process is completed.

6. MEDIUM AND MODE OF EXAMINATION & EVALUATION

All question papers will carry objective multiple-choice questions. Answers of the Papers will be evaluated by OMR methodology. All question papers for postgraduate admissions will be in English.

7. COUNSELLING

Successful candidates will be required to participate in the counselling process. The information about Counselling procedure, Counselling Schedule and all relevant information regarding counselling etc., will be notified on the website <http://www.upsee.nic.in>.

8. EXAMINATION FEE

The examination fee for the On-Line Application is as follows:

For Male / Transgender Candidates of General/ OBC Category	For SC/ST Category/Female/PH Candidates of All the category
Rs. 1300/-	Rs. 650/-

The examination fees have to be submitted On-Line through Credit/debit Card/ Net Banking while submitting the On-Line Application. Please note that the bank may additionally charge service charges plus applicable taxes while making the payment through Credit/Debit card/Net banking.

9. TUITION FEES

- 9.1 The tuition fees in Govt. / Govt. aided colleges / institutes shall be as per latest orders of Government of U.P applicable in the respective colleges/institutes. However, few courses are under self finance scheme and the details of the fee for such courses can be obtained by respective colleges/institutions. However, information about amount of the hostel and other fee can be obtained from the institute itself.
- 9.2 The fees in Private Institutions/Govt. aided Institutions running self-finance courses will be as per the latest notification/ orders issued by Govt. of Uttar Pradesh/ Fee Fixation Committee

10. LAST DATE OF SUBMISSION OF ON-LINE APPLICATION FORM

Application Form for UPSEE-2019 can be submitted On-Line only through website <http://www.upsee.nic.in> from 23rd January 2019, 02:00 PM. The Last Date of filling and submitting the On-Line Application Form is 15th March 2019, 05:00 PM. However, candidates will be allowed to upload their valid scores of GATE/ GPAT/CEED and the notification and dates for uploading will be published in the website [upsee.nic.in](http://www.upsee.nic.in)

HOW TO FILL ON-LINE APPLICATION FORM (M. Tech/ M. Pharm/ M. Arch/M. Des COURSES)

Refer

<https://upsee.nic.in/publicinfo/Handler/FileHandler.ashx?i=File&ii=265&iii=Y>

APPENDIX- I

SYLLABUS

1. M. Tech (BT, CHE, CE, ME, CSIT, EC, EE, TE, ES and LS)

Part A- (i) General Aptitude (BT, CHE, CE, ME, CSIT, EC, EE, TE, ES and LS)

General Aptitude test is aimed at evaluating the verbal ability, quantitative aptitude, logical & abstract reasoning. Following is a brief description of contents of the test paper.

(i) English Language: Grammar, vocabulary, uncommon words, sentence completion, synonyms, antonyms, relationship between words & phrases and comprehension of passages.

(ii) Numerical Aptitude: Numerical calculation, arithmetic, simple algebra, geometry and trigonometry, Interpretation of graphs, charts and tables.

(iii) Thinking and Decision Making: Creative thinking, unfamiliar relationships, verbal reasoning, finding patterns trends and Assessment of figures & diagrams.

Part A- (ii) Mathematics (BT, CHE, CE, ME, CSIT, EC, EE, TE and ES)

Linear Algebra: Matrices and Determinants, Systems of linear equations, Eigen values and eigen vectors.

Calculus: Limit, continuity and differentiability; Partial Derivatives; Maxima and minima; Sequences and series; Test for convergence; Fourier series.

Vector Calculus: Gradient; Divergence and Curl; Line; surface and volume integrals; Stokes, Gauss and Green's theorems.

Differential Equations: Linear and non-linear first order ODEs; Higher order linear ODEs with constant coefficients; Cauchy's and Euler's equations; Laplace transforms; PDEs – Laplace, heat and wave equations.

Probability and Statistics: Mean, median, mode and standard deviation; Random variables; Poisson, normal and binomial distributions; Correlation and regression analysis.

Numerical Methods: Solutions of linear and non-linear algebraic equations; integration of trapezoidal and Simpson's rule; single and multi-step methods for differential equations.

Part B- Subject Domain

1. Bio Technology (BT) (GATE syllabus- Bio Technology
<http://gate.iitm.ac.in/Syllabus>)
2. Chemical Engineering (CHE) (GATE syllabus -Chemical Engineering
<http://gate.iitm.ac.in/Syllabus>)
3. Civil Engineering (CE) (GATE syllabus -Civil Engineering
<http://gate.iitm.ac.in/Syllabus>)
4. Computer Science & Information Technology (CSIT) (GATE syllabus - Computer Sc
& Information Technology <http://gate.iitm.ac.in/Syllabus>)
5. Electronics & Communication (EC) (GATE syllabus - Electronics & Communication
Engg. <http://gate.iitm.ac.in/Syllabus>)
6. Electrical Engineering (EE) (GATE syllabus - Electrical Engineering.
<http://gate.iitm.ac.in/Syllabus>)
7. Textile Engineering & Fibre Science (TE) (GATE syllabus - Textile Engg. & Fibre.
<http://gate.iitm.ac.in/Syllabus>)
8. Mechanical Engineering (ME) (GATE syllabus -Mechanical Engineering.
<http://gate.iitm.ac.in/Syllabus>)
9. Engineering Sciences (ES)

Part B:

ES_1: Fluid mechanics (GATE syllabus of Fluid Mechanics given at
<http://gate.iitm.ac.in/Syllabus>)

ES_2: Materials Science (GATE syllabus of Materials Science given at
<http://gate.iitm.ac.in/Syllabus>)

ES_3: Solid Mechanics: (GATE syllabus of Solid Mechanics given at
<http://gate.iitm.ac.in/Syllabus>)

ES_4: Thermodynamics: (GATE syllabus of Thermodynamics given at
<http://gate.iitm.ac.in/Syllabus>)

ES_5: Food Technology (GATE syllabus of Food Technology given at
<http://gate.iitm.ac.in/Syllabus>)

10. Life Sciences (LS)

Part A (ii)

Chemistry (GATE syllabus of **XL-P Chemistry** given at <http://gate.iitm.ac.in/Syllabus>)

Part B

LS_1: Bio Chemistry (GATE syllabus of Biochemistry given at <http://gate.iitm.ac.in/Syllabus>)

LS_2: Botany (GATE syllabus of Botany given at <http://gate.iitm.ac.in/Syllabus>)

LS_3: Microbiology (GATE syllabus of Microbiology given at <http://gate.iitm.ac.in/Syllabus>)

LS_4: Zoology (GATE syllabus of Zoology given at <http://gate.iitm.ac.in/Syllabus>)

LS_5 : Food Technology (GATE syllabus of Food Technology given at <http://gate.iitm.ac.in/Syllabus>)

2. M. Pharm

GPAT syllabus given at <https://ntagpat.nic.in> and available in

<https://ntagpat.nic.in/ntagpatcms/Handler/FileHandler.ashx?i=File&ii=15&iii=Y>

3. M. Arch

GATE syllabus given for Architecture & planning at <http://gate.iitm.ac.in/Syllabus>

4. M. Des

CEED syllabus given at

http://www.ceed.iitb.ac.in/2019/downloads/CEED2019_Brochure.pdf

U.P. STATE ENTRANCE EXAMINATION

Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

(Formerly U.P. Technical University, Lucknow)

Sector -11, Jankipuram Extension, Lucknow

INFORMATION BROCHURE

UPSEE – 2019

[ENGLISH VERSION]

For Admission to

**First Year of B. Tech./B.Arch./B.Des./B.Pharm./
BHMCT/BFAD/BFA/B. Voc./MBA/MBA(Integrated)
/MCA/MCA(Integrated)/M Tech (Dual Degree)
M.Tech*/M. Arch*/M. Pharm*/M. Design***

And

2nd Year of B. Tech./B.Pharm./MCA (Lateral Entry)

Opening Date for filling of On-Line Application:

January 23, 2019 (02:00 PM)

Last Date for Submission of Application:

March 15, 2019 (05:00 PM)

Date of Examination

April 21, 2019 (Sunday)

Website

<http://www.upsee.nic.in>

Help Desk

TOLL FREE : 1800-1800161

Alternate Contact : 0522-2336800, 0522-2336811

E-Mail : upsee.helpdesk@aktu.ac.in

Contact Address:

Registrar

Dr A.P.J. Abdul Kalam Technical University, Uttar Pradesh

Sec-11, Jankipuram Extension, Lucknow – 226 031 (U.P) India

Phone: 0522 – 2771079, Fax: 0522 – 2732185

E-Mail : registrar@aktu.ac.in

Website : <https://aktu.ac.in>

* Refer Separate Admission Guidelines available on www.upsee.nic.in for M. Tech/M. Pharm/M. Arch/M. Design

**For Admission to First Year of B. Tech. / B. Tech.(Biotechnology)/
B. Tech. (Agriculture Engg.) / B. Arch. / B. Des. /B. Pharm. /BHMCT /BFAD /BFA/ B. Voc
MBA/ MBA(Integrated) / MCA/ MCA(Integrated) / M Tech (Dual Degree) and
2nd Year (Lateral Entry) of B. Tech./B. Pharm./MCA**

1. **Application to the UPSEE-2019 can be made On-Line only.** Candidates are required to fill the Application Form On-Line through the website <http://www.upsee.nic.in>.
2. On-Line application form through the website <http://www.upsee.nic.in> can be submitted from **23rd January 2019 (02:00 PM) to 15th March 2019 (05:00PM)**
3. Candidates are advised to read this Information Brochure carefully, check their eligibility and applicable reservation category etc. before filling and submitting the application form.
4. This Entrance Examination is open to the candidates who have passed the qualifying examination from any institution located in U.P. or whose parents are domicile of U.P subject to the eligibility conditions given in this Information Brochure. If the candidate has passed qualifying examination from outside U.P., he/she has to produce domicile certificate of his/her parents (**Father OR Mother only**) at the time of verification of the document.
5. **This Entrance Examination is also open to the candidates who have passed the qualifying examination from any institution located outside U.P. and whose parents (both Father and Mother) are not domicile of U.P. subject to the eligibility conditions given in this Information Brochure.**
6. Please note that candidates do not need to send “Confirmation Page” printed after completion and submission of On-Line application form to the University. However, the Candidate should keep the print out of the Confirmation page for record. Candidates are also advised to note down the **Application Form Number** for any future correspondences.
7. The On-Line application to UPSEE-2019 can be filled and submitted as per clause 18, clause 19, clause 20 and clause 21 of the Information Brochure.
8. Candidates do not need to send hard copy / photo copy of any document, whatsoever, to the University at this stage.
9. ¹ **20% of the total sanctioned seats available for admission in first year in all courses in institutions affiliated to AKTU without reservation subject to eligibility conditions given in this Information Brochure. Thus, 20% of the total sanctioned seats for admission in first year of all courses in Institutions affiliated to AKTU shall be open to all the candidates. These seats shall be filled on the basis of UPSEE-2019 Merit.**
10. There is no age limit for admission to the courses covered in UPSEE-2019.
11. Accepting admission in any institution implies acceptance by the candidate and his/her parents or guardians with all the provisions given in this Information Brochure. Any change in the rules, regulations, fee and special conditions etc. of that institution shall apply to the admitted candidate.
12. Candidates filling the On-Line Application Form are required to upload scanned images of his/her latest color photograph and signature. Application forms having blurred photographs are liable to be rejected.
13. Candidates claiming advantage of reserved categories, sub-categories, rural weightage etc. must be required to indicate in the Application Form and are not required to send any certificate to the University at this stage. These certificates, in original, will have to be produced at the time of Documents Verification along with one self attested copy of each one of them. The proforma of the certificates are given at the end of this Information Brochure at Appendix-D, which are subject to change even upto the date of admission, as per the orders of Govt. of Uttar Pradesh. **Note that the Certificate No. 2 for OBC candidates will be entertained only if it is valid as on 31.07.2019, in case a certificate has no validity mentioned it should be issued on or after 01.04.2019 (mandatory due to condition of creamy layer for OBC).**
14. Candidates who are due to appear for the qualifying examination or have appeared, but results are awaited, are also eligible to appear in the UPSEE-2019. However, the candidates in respect of whom, the result of the qualifying examination has not been declared till the date of the document verification, due to any reason whatsoever, **shall not be eligible** for admission **under any circumstances**.
15. The result of UPSEE-2019 declared by Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow shall be final. However, the candidate can get his/her answer sheets scrutinized on payment of Rs. 5000/- per paper within seven days of declaration of result. The application for scrutiny may be submitted to the Registrar, Dr. A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow (U.P.)

¹ May Change as per latest State Govt. order upto the date of counselling.

- 226031 in writing.
16. If any document/declaration submitted by the candidate is found to be false at any stage, his/her admission shall be cancelled, and he/she may be liable for prosecution under the law. In case of any legal dispute, the jurisdiction will be limited to Lucknow courts only.
 17. The candidate must himself/ herself ensure about his/her eligibility to appear in the Entrance Examination. If a candidate, who is not eligible to appear in the examination, does so; he/ she will not have any claim whatsoever, for admission to any course through UPSEE-2019.
 18. The Entrance Examination Fee for UPSEE-2019 is Rs. 1300.00 for Male/Transgender candidates of General & OBC category and Rs. 650.00 for Female/ Physically Handicapped candidates of all categories /SC/ST candidates.
 19. The number of Colleges / Institutions, courses and seats may increase or decrease upto the counselling dates.
 20. If any of the qualifying examination Board/University awards only letter grades without providing an equivalent percentage of mark on the gradesheet, the candidate should obtain a certificate from the Board/ University specifying equivalent marks and submit it at the time of document verification. In case, such a certificate is not provided by the candidate, the decision of the Central Admission Board (CAB) regarding his / her eligibility shall be final.
 21. The allotment of seat through counseling will be carried out strictly in accordance with the UPSEE-2019 merit of the candidate, subject to the order of preference given for the seats and availability of seat in the category. **Once the seat is allotted to the candidate, no change in the Institution / Branch is admissible.**
 22. **The fee paid at the time of counseling by the candidate, after the allotment of seat will be forfeited and will not be refunded under any circumstances, even if the candidate does not report for the admission to the allotted institutions.**
 23. No tuition fee shall be charged from eligible SC/ST candidates by the institutions affiliated to AKTU, Lucknow at the time of granting admission as per U.P. Govt. order no. 37 Bha Saa./26-03-04-4(77)/02 dated:18-06-04. A relaxation in the tuition fee amount equal to tuition fee of Government Institutions has been granted to OBC / General Category economically weaker students by the Govt. vide order no. 4136/solah-1-2008-135/2008 dated: 8-10-08 and 2991/solah-1-2008-14(34)/2008 dated: 16-09-08. The candidate will have to produce there required prescribed certificate/document since the institution as enforced vide G.O. no. 6048/solah-1-2008-1(17)/2008 dated 06-01-08. Govt. orders released time to time shall be applicable. The institutions will charge tuition fee after granting this relaxation to the eligible candidates as per the current fee structure determined by the fee determination committee.
 24. This Information Brochure is in both English and Hindi languages. In case of any discrepancy the English version shall be final for all purposes.
 25. All information about UPSEE-2019 shall be made through University Website <http://www.upsee.nic.in> or <https://aktu.ac.in>. The candidates are advised to refer to this website regularly/frequently failing which AKTU will not be responsible for any loss due to the lack of communication.
 26. In case of any deficiency in application form, it is likely to be rejected and sole responsibility of its consequences will lie on the candidate and representation in this regard shall not be entertained.
 27. Abbreviations used:

AKTU	-	Dr A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow
AIU	-	Association of Indian Universities
UPSEE	-	Uttar Pradesh State Entrance Examination
B. Tech.	-	Bachelor of Technology
B. Pharm.	-	Bachelor of Pharmacy
B. Arch.	-	Bachelor of Architecture
B. Des*	-	Bachelor of Design*
BHMCT	-	Bachelor of Hotel Management & Catering Technology
BFAD	-	Bachelor of Fashion & Apparel Design
BFA	-	Bachelor of Fine Arts
MBA	-	Master of Business Administration
MCA	-	Master of Computer Application
SAT II	-	Scholastic Assessment Test II

* This programme is currently offered by UP Institute of Design located in Noida Campus of Dr. APJ Abdul Kalam Technical University, Uttar Pradesh.

Note: UPSEE-2019 is being conducted for admission to all the Technical Institutions / Colleges affiliated to the AKTU, Lucknow. Admissions in some of the courses to the other Universities of U.P. are also done through UPSEE-2019.

U P STATE ENTRANCE EXAMINATION (UPSEE – 2019)

For Admission to First Year of B.Tech./ B.Tech.(Biotechnology)/ B.Tech.(Agriculture Engg.)/
B.Des. /B.Arch. /B.Pharm. /BHMCT /BFAD /BFA /MBA /MBA(Integrated) /MCA
/MCA(Integrated) and 2nd Year (Lateral Entry) of B. Tech /B. Pharm./MCA

1. CENTRAL ADMISSION BOARD(CAB)

The entrance examination for degree level engineering institutions and other professional colleges has been assigned to Dr A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow vide Govt. order no. 4649/सोलह-1-2018-14(54)/2012 dated 27-12-2018. The Govt. of Uttar Pradesh, Technical Education Department, has consented for the constitution of Central Admission Board (CAB) under the Chairmanship of the Vice Chancellor, Dr A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow to supervise and control the State Entrance Examination herein after referred as UPSEE-2019 being conducted by Dr A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow. The CAB has absolute rights for conducting of UPSEE-2019, and to decide about modalities of admissions and allotment of seats. The jurisdiction of CAB extends to colleges / institutes affiliated to AKTU, Lucknow. The CAB is authorized to take every decision regarding conduct and admissions through UPSEE-2019.

2. MODE OF ADMISSION

2.1. ADMISSION TO FIRST YEAR

The Entrance Examination for admission to first year of the following courses offered at the Institutions affiliated to AKTU, Lucknow including other mentioned universities situated in territory of Uttar Pradesh for the academic year 2019-2020 shall be conducted by Dr A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow.

1. 4 years B.Tech./B. Tech.(Ag. Engg.) Course	8. 4 years BFAD Course
2. 4 years B. Tech (Biotechnology) Course	9. 4 years BFA Courses
3. 4 years B. Pharm. Course	10. 2 years MBA Course
4. 5 years B. Arch .Course	11. 3 years MCA Course
5. 4 years B. Des. Course	12. 5 years MCA (Integrated) Course
6. 4 years BHMCT Course	13. 5 years MBA (Integrated) Course
7. 4 years B Voc Course	14. 5 years M Tech (Dual Degree) Course

2.2. DIRECT ADMISSION (LATERAL ENTRY) TO 2nd YEAR OF B.Tech./ B.Pharm. / MCA

- (i) ²The eligible candidates (Refer clause 3.3) seeking direct admission to second year of B. Tech. (for engineering diploma holders and B.Sc. graduates) or B. Pharm. (Only for pharmacy diploma holders) or MCA (for BCA, B.Sc (IT/ Computer Science) degree holders) in institutions affiliated to AKTU, Lucknow are required to submit the application forms by the last date. Such candidates are also required to appear in the specified paper of entrance examination.
- (ii) ³Such seats are limited to a maximum of 20% of previous year sanctioned intake in institutions/ colleges for different courses at first year level except B. Pharm. in which the maximum limit is 10%
- (iii) However, for B. Tech. students belonging to the B.Sc. stream shall be considered **ONLY AFTER** filling the seats in this category with students of Diploma stream.
- (iv) Direct admission to Second year shall **not** be made in B.Arch./BHMCT/BFAD/BFA/B. Des/B Voc/ MBA Courses.
- (v) The candidates who have passed qualifying examination from other than Uttar Pradesh State and whose parents are not domicile of Uttar Pradesh State are not eligible for Direct admission to second year of B. Tech/B. Pharm./ and MCA (Lateral Entry).

² As per AICTE Notifications F-11-140/2004-NRO/AICTE-33 dated 9-06-2004 & F.37-3/Legal/2007 dated 12.01.07 and U.P.Govt. Order no. 256 / Solah – 1 – 2007 – 1(01) / 2005 dated 14.02.07

³ Subject to change as per latest orders of Govt. of U.P. / AKTU upto the date of counselling.

2.3. SEATS UNDER DIFFERENT SCHEME IN FIRST YEAR

- (i) Number of admissions in all courses offered at Institutions affiliated to AKTU, Lucknow, will be only through UPSEE-2019
- (ii) UP State Govt. has permitted 15% of total sanctioned seats available in Private Institutions to be filled by the Management quota/NRI candidates; and the same shall be filled up in accordance with the procedure prescribed in the Govt. orders. The remaining seats in various courses offered at all the Institutions affiliated to AKTU, Lucknow will be filled through UPSEE-2019 counseling.
- (iii) ⁴ 20% of the total sanctioned seats available for admission in first year in all courses in institutions affiliated to AKTU without reservation subject to eligibility conditions given in this Information Brochure. Thus, 20% of the total sanctioned seats for admission in first year of all courses in Institutions affiliated to AKTU shall be open to all the candidates. These seats shall be filled on the basis of UPSEE-2019 Merit.
- (iv) Thus, for Government/ Government Aided/ Govt. Self Financed Institutes, 100% seats in all courses in first year will be filled by UPSEE-2019 qualified candidates.
- (v) For private colleges 85% seats in all the courses will be filled by UPSEE-2019 qualified candidates.

2.4. ADMISSION TO NON-RESIDENT INDIAN (NRI) CANDIDATES IN FIRST YEAR

NRI candidates, who possess prescribed qualifications (clause 3.4), may get direct admission on 5% seats of total intake in Govt. / Govt. aided and Private Institutions having approval from AICTE for NRI seats on merit, subject to the latest instructions of Govt. of U.P. The detailed information will be published in the month of May 2019 in various newspapers and university website. The candidates, seeking for admission under this scheme, need not appear in UPSEE- 2019. However, applicants opting B.Arch. course under this category has to appear in an Aptitude Test on the day of counseling to be notified later.

2.5. ADMISSION TO KASHMIRI MIGRANTS IN FIRST YEAR

Direct admission to Kashmiri Migrants in first year in each institute is to be made as per the latest instructions of AICTE and orders from U.P. Govt. Such admissions will be over and above the sanctioned intake and normally limited upto one admission per Institute affiliated to AKTU, Lucknow. The detailed information will be published in the month of May 2019 in various news papers and University website <https://aktu.ac.in>. The candidates, opting for admission under this scheme, need not appear in UPSEE-2019.

The B. Arch. course does not exist for such candidates.

2.6. ADMISSION TO FOREIGN NATIONALS (FN) / PERSONS OF INDIAN ORIGIN (PIO) / CHILDREN OF INDIAN WORKERS IN GULF COUNTRIES(CIWGC)

Under the approval of AICTE, identified institutions shall admit FN/PIO/CIWGC up to the extent sanctioned by AICTE as per the eligibility criteria (clause 3.5) and guidelines of the University. These supernumerary seats shall be exclusively meant for the FN/PIO/CIWGC students in undergraduate courses with the condition that under no circumstances a seat remained unfilled shall be allocated to candidates other than a FN/PIO/CIWGC. The candidates, opting for admission under this scheme, need not appear in UPSEE-2019.

The B.Arch. course does not exist for such candidates.

⁴ May Change as per latest State Govt. order upto the date of counselling

2.7. ADMISSION TO FEE WAIVER SEATS FOR ECONOMICALLY WEAKER MERITIOUS STUDENTS

As per the AICTE notification fee waiver seats for economically weaker meritorious candidates are also available in B. Tech./ B. Pharm./B.HMCT/B.FAD/BFA courses in all institutions affiliated to AKTU, Lucknow. No tuition fee will be charged from the candidates admitted against such seats. The fee waiver seats will be limited to maximum of 5% of the approved intake in the course, and will be over and above of the sanctioned intake. The economically weaker students must submit certificate no. 12 (Income Certificate) at the time of verification of documents.

No Tuition Fee Waiver seats are available for B.Arch. Courses.

3. ELIGIBILITY CRITERIA

The candidates must fulfill the eligibility criteria as given in clause 3.1/3.2/3.3 to appear in UPSEE-2019. However, the candidates appearing in the qualifying examinations are also eligible to appear, subject to the condition that they must fulfill the eligibility criteria as given in clause 3.1/3.2/3.3 at the time of counseling.

3.1. ELIGIBILITY TO APPEAR IN UPSEE-2019 FOR ADMISSION TO FIRST YEAR OF B.Tech. /B.Des./ B.Arch. / B.Pharm. / BHMCT / BFAD /BFA /B Voc/ MBA (Integrated) /MCA (Integrated)/ M Tech (Dual Degree)

- (i) The subject combination required in the qualifying examination (intermediate examination of U.P. Board or 10+2 level examination or its equivalent) for admission to first year of different courses shall be as follows:

Course	Compulsory Subjects	Anyone of the following Subjects
B. Tech/ B.Des/ M Tech (Dual Degree) MCA(Integrated)	Physics & Mathematics	Chemistry/ Bio-Technology / Biology / Technical Vocational subject
B. Tech.(Bio-Technology)	(i) Physics & (ii) Mathematics OR Biology	Chemistry/ Bio-Technology / Technical Vocational subject
B. Arch	Physics, Chemistry & Mathematics	
B. Pharm.	Physics & Chemistry	Mathematics/ Biology
B.Tech. (Agriculture Engg.)	Agriculture discipline.*	
BHMCT/ BFAD /BFA / B Voc MBA (Integrated)	Any discipline.	

* Please read point No. 3.1(v).

- (ii) For admission to first year of B.Tech./B.Pharm./B.Des./MCA(Integrated), M Tech (Dual Degree), candidate must have clearly passed intermediate examination of U.P. Board or 10+2 level examination or its equivalent from any recognized Board / University in each compulsory subjects and one optional subject as given in clause 3.1 (i) and securing minimum 45% marks (40% marks for SC/ST Category candidates) **in aggregate** in required three subjects. A candidate Passed Diploma (Engineering & Technology) with at least 45% marks (40% for reserved category) is also eligible for B Tech.
- (iii) For admission to first year of BHMCT/BFAD/BFA/MBA(Integrated)/B Voc, candidate must have clearly passed intermediate examination of U. P. Board or 10+2 level examination or its equivalent from any recognized Board / University and securing minimum 45% marks (40% marks for SC/ST category candidates) **in aggregate**.
- (iv) For admission to first year of B. Arch., a candidate must have clearly passed intermediate examination of U.P. Board or 10+2 level examination or its equivalent from any recognized Board/University and securing (i) minimum 50% marks **in aggregate** and (ii) with 50% marks in each compulsory subject (Physics, Chemistry and Mathematics) as given in clause 3.1(i).
- (v) For admission to first year of B.Tech.(Agriculture), candidate must have clearly passed intermediate examination of U. P. Board or 10+2 level examination or its equivalent from any recognized Board / University in agricultural subjects and secured minimum 45% marks (40% marks for SC/ST category candidates) **in aggregate**. **All Eligible candidates for B. Tech. First year are also eligible for B. Tech. Agriculture.**
- (vi) All candidates who are eligible for admission in B.Tech. Courses are also eligible for B.Tech. (Agriculture

Engineering) and B. Tech. (Biotechnology).

3.2. ELIGIBILITY TO APPEAR IN UPSEE-2019 FOR ADMISSION TO FIRST YEAR OF MBA/MCA

- (i) For admission to first year of MBA in any institution affiliated to AKTU, Lucknow, a candidate must have passed Bachelor's degree course of three years minimum duration from any recognized Indian University; or its equivalent, recognized by A.I.U securing minimum 50% (45% for SC/ST) marks **in aggregate**.
- (ii) For admission to first year of MCA in any institution affiliated to AKTU, Lucknow, a candidate must have passed Bachelor's degree course of three years minimum duration from any recognized Indian University; or its equivalent, recognized by A.I.U. securing minimum 50% (45% for SC/ST) marks **in aggregate**. Candidate must have passed Mathematics at 10+2 level or Graduation level.
- (iii) In any case a candidate having grace marks is not allowed for admission.
- (iv) For admission to first year of MBA/MCA in other Universities of U.P., a candidate must have passed Bachelor degree course with the eligibility conditions given in following table subject to the confirmation received from the concerned University:

Sl. No.	Name of University/ Institutions	Course(s)	Minimum pass marks at three years Graduation level	Remarks/ Compulsory conditions
1	C.S.J.M. Kanpur University, Kanpur	MBA MBA-Finance & Control(M3) MBA-Business Economic(M2) MBA-Tourism Management(M4)	As per AICTE norms.	
		MCA	As per AICTE norms.	Maths at 10+2 or Graduation level.
2	Dr. R. M. L. Avadh University, Faizabad	MBA	Graduate with 50% marks	
		MCA	Graduate	Maths at 10+2 or Graduation level.
3	M.G. Kashi Vidyapith University, Varanasi	MBA	Graduate	
		MCA	Graduate with 45% marks	Maths at 10+2 or Graduation level.
4	V.B.S. Purvanchal University, Jaunpur	MBA (M1) MBA Agri. Business (M17) MBA E-Commerce (M21) MBA Business Economics (M2) MBA Finance & Control (M3) MBA Human Research & Development (M22)	As per UPSEE norms.	
		MCA	As per UPSEE norms.	Maths at 10+2 or Graduation level
5	M.J.P. Rohilkhand University, Bareilly	MBA (General) (M1) MBA (Marketing) (M20)	Graduation 50%	
		MCA	As per UPSEE norms	Maths at 10+2 or Graduation level.
6	D.D.U. Gorakhpur University, Gorakhpur	MBA	Minimum 40% marks at Graduation level	
7	Institute of Business Studies, Ch. Charan Singh University, Meerut	MBA	Graduate	
	Sir Chhotu Ram Institute of Engineering & Technology, Ch. Charan Singh Campus, Meerut	MBA (M1) MBA-IB (M5) MCA	Graduate Graduate	Maths at 10+2 or Graduation level.

Sl. No.	Name of University/ Institutions	Course(s)	Minimum pass marks at three years Graduation level	Remarks/ Compulsory conditions
8	Dr. B.R. Ambedkar University, Agra	MBA	As per UPSEE	
		MCA	As per UPSEE	Maths at 10+2 or Graduation level.
9	Bundelkhand University, Jhansi	MBA MBA (International Business)(M5) MBA (Finance Management)(M6) MBA (Tourism Management)(M4)	50%	
		MCA	50% in B.Sc.(Maths/Stats)/B CA/ B.Sc.IT /B.Sc.(CS)/B.Sc.(IT) .Maths at 10+2 level is compulsory	
10	Dr. Shakuntala Misra Vishwavidyalaya, Lucknow	MBA	Graduate	
11	Khwaja Moinuddin Chishti Urdu, Arabi- Farsi University, Lucknow.	MBA	Minimum 50% marks (45% for SC/ST) at Graduation Level	

3.3. ELIGIBILITY TO APPEAR IN UPSEE-2019 FOR ADMISSION TO SECOND YEAR (LATERAL ENTRY) of B. Tech./B. Pharm./MCA

- (i) Direct Admission in second year (Lateral Entry) of B.Arch./BHMCT/BFAD/BFA/MBA courses is **not permissible**.
- (ii) Lateral entry in “B.Tech. for Engineering Diploma holders or B.Sc. Graduates with Mathematics as one of the subject at XII standard”/ “B. Pharm. for Diploma holders” in third semester (second year)/ “MCA for Graduates of BCA or B.Sc.-Information Technology/Computer Science in third semester (second year)”, is open **only in** the institutions affiliated to AKTU, Lucknow. Candidate who have passed qualifying exam from other than Uttar Pradesh State and whose parents are not domicile of UP State are not eligible for direct admission to second year of B. Tech/B. Pharm./MCA (Lateral Entry).
- (iii) Candidates who have passed three years Engineering Diploma from an Institution located in U.P. with minimum 45% marks (40% for SC/ST) OR whose parents (Father or mother) are domicile of Uttar Pradesh and he/she has passed three years Engineering Diploma with minimum 45% marks (40% for SC/ST) recognized by the Board of Technical Education, U.P., in any branch of Engineering (except Agriculture Engg., Pharmacy and Architecture), are eligible for admission to Second year in any branch of Engineering /Technology.
- (iv) Candidates who have passed three years Diploma in Agriculture Engg. From an Institution located in U.P. with minimum 45% marks (40% for SC/ST) OR ‘whose parents (Father or mother) are domicile of U.P.’ and he/she has passed three years Diploma in Agriculture Engg. with minimum 45% marks(40% for SC/ST) recognized by the Board of Technical Education, U.P., are eligible for admission to Second year of **Agriculture Engineering Branch only**.
- (v) Candidates who have passed three years B.Sc. degree and passed XII standard with mathematics as one of the subject' from any recognized University; securing minimum 45% marks (40% for SC/ST) in aggregate, are also eligible for admission to second year in any branch of Engineering/ Technology. These candidates shall be considered only after filling the supernumerary seats in this category with the candidates belonging to the Diploma stream. The candidates belonging to B.Sc. Stream shall clear the subjects Engineering Graphics/ Engineering Drawing and Engineering Mechanics of the first year Engineering programme along with the second-year subjects.
- (vi) Candidates who have passed 2/3 years Diploma in Pharmacy from an Institution located in U.P. with

minimum 45% marks (40% for SC/ST)' OR whose parents are domicile of U.P. and he/she has passed 2/3 years Diploma in Pharmacy with minimum 45% marks (40% for SC/ST) recognized by the Board of Technical Education,U.P.,are eligible for admission to second year of **B. Pharm. only**.

- (vii) For Admission to **2nd year of MCA course (Lateral Entry)**, in any institution affiliated to AKTU, Lucknow, a candidate must have passed Bachelor's degree course of minimum three years duration in BCA, B.Sc (IT/ Computer Science) from any recognized Indian University; or its equivalent, recognized by A.I.U. securing minimum 50% (45% for SC/ST) marks in aggregate. The candidate must have passed Mathematics at 10+2 level or Graduation level.

3.4. ELIGIBILITY FOR ADMISSION TO NRI QUOTA IN FIRSTYEAR

NRI candidates who possess minimum requisite qualification may get direct admission on 5% seats of total intake in State Funded and Private Institutions of Uttar Pradesh in all courses except MBA/MCA/. However, applicants opting B.Arch. course under this category must appear in Aptitude Test on the day of counselling to be notified later. The University shall fill the seats of NRI quota (5%) seats in the following manner:

- (i) NRI quota seats shall be filled from NRIs, who
- (a) have passed the qualifying examination with Physics, Chemistry and Mathematics from an Institution situated outside India, which is considered equivalent to (10+2) examination by the Association of Indian Universities.

OR

have passed High School Certificate Education (GCE) examination with Physics, Chemistry and Higher Mathematics (A) from London / Cambridge / Sri Lanka.

- (b) have appeared in SAT II examination with Mathematics level II C, Physics and Chemistry.

The relative merit of such cases will be decided on their SAT-II score.

- (ii) The vacant seats in NRI quota, if any, shall be filled up by such son / daughter / real brother /real sister of NRIs, who have passed intermediate or (10+2) or equivalent examination; with physics, chemistry and mathematics in each of physics, chemistry and mathematics and securing minimum 60% marks (55% for SC/ST) in physics, chemistry and mathematics taken together, from an institution situated in India.
- (iii) The relative merit of candidates mentioned in (ii) will be decided based on the total marks obtained by them in physics, chemistry and mathematics. Such candidates need not appear in UPSEE-2019.**
- (iv) All such candidates MUST submit an NRI certificate obtained from Indian Diplomatic Mission / Chancellery / High Commission under their seal at the time of counselling.
- (v) The candidate also MUST submit sufficient documents clarifying without ambiguity their true relationship with the sponsoring NRI to the satisfaction of the University.
- (vi) The candidates will be informed separately about the date of counselling and number of seats under this quota. **Candidates are required to be present in person on the day of counseling** with original documents / certificates, failing which they will lose their claim.
- (vii) The latest orders issued by Govt. of U.P. upto the date of NRI counseling shall be applicable for admission in NRI quota.**
- (viii)** The detailed information will be published through News papers and websites: <https://aktu.ac.in> or <http://www.upsee.nic.in> in the month of May 2019.

3.5. ELIGIBILITY FOR ADMISSION TO FOREIGN NATIONALS (FN) / PERSONS OF INDIAN ORIGIN (PIO) / CHILDREN OF INDIAN WORKERS IN GULF COUNTRIES (CIWGC) IN FIRSTYEAR

FN/PIO/CIWGC seats shall be filled from Foreign Nationals / PIO's/CIWGC who:

1. have passed the qualifying examination with Physics, Chemistry and Mathematics, which is considered equivalent to (10+2) examination by the Association of Indian Universities.
2. should submit a copy of passport or equivalent evidence in support of their Nationality.

The relative merit of such cases will be based on their qualifying examination.

The latest orders issued by Govt. of U.P. upto the date of admission will be applicable in FN/PIO/CIWGC.

3.6. ELIGIBILITY FOR DIRECT ADMISSION TO FIRST YEAR IN PRIVATE INSTITUTIONS AT INSTITUTE LEVEL UNDER MANAGEMENT QUOTA (FOR NRI CANDIDATES) / VACANT SEATS AFTER COUNSELLING OF UPSEE-2019

- (i) The 15% seats⁵ in private institutions shall be filled by the Management/ NRI quota at institute level under management quota as per eligibility criteria in clause 3.4. The vacant seats in NRI/Management quota or vacant seats after counselling of UPSEE-2019 shall be filled strictly in following preference order, within fifteen days of the last date of counselling:
 - (1) Firstly, by the qualified candidates of JEE(Main)-2019 fulfilling the eligibility as per clause 3.1 for B. Tech. / B.Arch. Their relative merit will be decided on their rank in respective entrance examinations.
 - (2) Secondly, by the qualified candidates of UPSEE-2019, who fulfill the eligibility as per clause 3.1. Their relative merit will be decided on their rank in UPSEE-2019.
 - (3) Thirdly, by the **merit of candidates in qualifying examinations** laid down by All India Council of Technical Education, New Delhi for admission to various programmes which are updated from time to time.
- (ii) Institute shall ensure filling of these vacant seats inviting the applications through advertisement in at least two leading newspapers of the State level and Institute website, giving at least one-week time to submit the applications on the University Portal. Admissions shall be strictly based on clause 3.6(i) mentioned above. However, applicants opting B.Arch. course under this category must appear in Aptitude Test on the day of counselling to be notified later.

IN ANY CASE NO PRIVATE INSTITUTION IS ALLOWED TO GIVE ADMISSION IN MORE THAN 25% SEATS TO STUDENTS FROM STATE OTHER THAN UTTAR PRADESH

3.7. ELIGIBILITY FOR DIRECT ADMISSION (LATERAL ENTRY) TO SECOND YEAR IN PRIVATE INSTITUTIONS UNDER VACANT SEATS AFTER COUNSELLING OF UPSEE-2019⁵

The vacant seats in B. Tech./B. Pharm./MCA course after UPSEE-2019 counselling for lateral entry (second year) shall be filled within 15 days of the last date of counselling at institute level, firstly by the qualified candidates of UPSEE-2019, who fulfill the eligibility as per clause 3.3. Their relative merit will be decided on their rank in UPSEE-2019.

Thereafter, the vacant seats, if any, will be filled on merit by such candidates who have passed the qualifying examination securing minimum 45% (40% for SC/ST) for B. Tech./B. Pharm. and 50% (45% for SC/ST) for MCA marks in aggregate without any grace marks.

Institute shall ensure the filling of these seats by inviting the applications through advertisement in at least two leading newspapers of state and institute website and give at least one week time to submit the applications.

4. EXAMINATION DETAILS

⁵ It is as per State Govt. order and may change as per latest instructions of Govt. of U.P. upto the date of counselling.

UPSEE-2019 will be conducted for eight papers with objective multiple type questions except Drawing Aptitude test (Part B of Paper 3). The candidates are required to opt papers and subjects for appearing in the entrance examination as mentioned in clause 4.3, subject to their eligibility as per clause 3. All Papers shall be **OMR based Test only**.

4.1. SCORING AND NEGATIVEMARKING

- (i) All objective type questions are required to be answered on a specially designed OMR answer sheet against the respective question number. Candidate is supposed to select only one choice for correct answer in each question.
- (ii) Every objective multiple type question would carry four/ five marks (B. Arch) marks for each correct answer. More than one answers indicated against the question will be deemed as incorrect answer and no marks are awarded for the incorrect answer.
- (iii) There will be **no negative marking**. However, a record of incorrect answers given by a candidate will be kept separately.
- (iv) Answers in OMR based examination are to be marked using ballpoint pen (Black / Blue) only. For evaluation in these papers, the details filled in by the candidate in the OMR answer sheet will be treated as final.

4.2. QUESTION PAPERS AND SUBJECTS IN THE ENTRANCE EXAMINATION

Paper	Subjects	Number of Questions	Marks
Paper 1	Physics, Chemistry and Mathematics	50 objective type questions each of Physics, Chemistry and Mathematics with a total of 150 questions.	600
Paper 2	Physics, Chemistry and Biology	50 objective type questions each of Physics, Chemistry and Biology with a total of 150 questions.	600
Paper 3	Aptitude Test for Architecture & Design Part-A: Mathematics and Aesthetic Sensitivity Part-B: Drawing Aptitude	50 objective type questions each of Mathematics and Aesthetic Sensitivity with a total of 100 questions and Two questions to test drawing aptitude.	600
Paper 4	Aptitude Test for General Awareness (BHMCT/BFAD/BFA/ MBA (Integrated))	100 objective type questions	400
Paper 5	Aptitude Test for B.Sc. Graduates in Engineering (Lateral Entry)/ 2 nd Year MCA (Lateral Entry)	100 objective type questions	400
Paper 6	Aptitude Test for MBA/ MCA	100 objective type questions	400
Paper 7	Aptitude Test for Diploma Holders in Pharmacy (Lateral Entry)	100 objective type questions	400
Paper 8	Aptitude Test for Diploma Holders in Engineering (Lateral Entry)	100 objective type questions	400

4.3. QUESTION PAPERS REQUIRED FOR DIFFERENT COURSES

COURSE	PAPERS
B. Tech. / B. Tech. (Agriculture Engineering)/ MCA (Integrated)/M Tech (Dual Degree)	Paper 1
B. Tech. (Bio Technology)	Paper 1 or Paper 2
B. Pharm.	Paper 1 or Paper 2
B. Arch.	Paper 3
B Des.	Paper 1 or Paper 3
BHMCT / BFAD/BFA/ B Voc/ MBA(Integrated)	Paper 4
Lateral Entry: MCA. 2 nd Year	Paper 5
B.Tech. 2 nd Year (for B. Sc. Graduates)	Paper 5
B.Pharm 2 nd Year (for Pharmacy Diploma Holders)	Paper 7
B.Tech. 2 nd Year (for Engg. Diploma Holders)	Paper 8
MBA/MCA	Paper 6

5. SCHEDULE OF EXAMINATION

Date of Examination	Paper Code	Subjects	Timing (Total Time Period)
21 st April 2019 (Sunday)	Paper 1	Physics, Chemistry and Mathematics	11:30 AM to 14:30 PM (3 Hours)
	Paper 2	Physics, Chemistry and Biology	11:30 AM to 14:30 PM (3 Hours)
	Paper 3	Aptitude Test for Architecture & Design	3.00 PM to 5:30 PM (2 Hours 30 Minutes)
	Paper 4	Aptitude test for General Awareness	9:00 AM to 11:00 AM (2 Hours)
	Paper 5	Aptitude Test for Lateral Entry in Engg	9:00 AM to 11:00 AM (2 Hours)
	Paper 6	Aptitude Test for MBA/ MCA	3.00 PM to 5:30 PM (2 Hours 30 Minutes)
	Paper 7	Aptitude Test for Diploma Holders in Pharmacy	9:00 AM to 11:00 AM (2 Hours)
	Paper 8	Aptitude Test for Lateral Entry in Engg (Diploma Holders).	9:00 AM to 11:00 AM (2 Hours)

6. SYLLABUS

The Syllabus for each question paper for the UPSEE-2019 is given at Appendix–A.

7. EVALUATION AND DECLARATION OF RESULT

- 7.1. The results of UPSEE-2019 will be declared in the first week of June 2019.
- 7.2. Based on performance of the candidates in UPSEE-2019, separate merit lists will be prepared for each course. Merit position, score-card with total marks and marks obtained in each subject shall be available on website **after the declaration of the result.**
- 7.3. In case two or more candidates secure equal marks, inter-se-merit of such candidates shall be determined as follows:
- (a) **Firstly**, by the percentage of incorrect answers given. A candidate having lesser percentage of incorrect answers will be placed at higher merit.

(b) **Secondly**,

B.Tech./B. Tech (Ag. Engg.)/ MCA(Integrated) M Tech (Dual Degree)	By the marks obtained in Mathematics, Physics, sections of Paper 1 respectively and then by age.*
B.Pharm.	By marks obtained in Biology, Chemistry sections of Paper 2 respectively and then by age.*
B Arch	By marks obtained in Drawing Aptitude, Mathematics & Aesthetics sensitivity section of Paper 3 respectively and then by age.*
B.Tech.(Bio-Tech.)	Same as applicable in B.Tech./B.Pharm
B Des/BHMCT/BFAD/BFA/ B Voc/ MBA/MBA(Integrated)/MCA/Lateral entry	*By age only

* Candidate with higher age will be placed at higher merit.

(c) **Thirdly**, by the application number, the lowest application number will be placed at higher in the merit.

- 7.4. The cut-off percentage of marks in UPSEE-2019 for the merit of successful candidates is 25% (20% for SC/ST) as per UP State Govt.order.
- 7.5. Successful candidates shall be called for counselling according to their merit in UPSEE-2019 by giving intimation through Newspapers and website. However, the allotment of seat shall depend on the availability of the seats on the day of counselling. The successful candidates are advised to keep a close watch on websites <https://aktu.ac.in> or <http://www.upsee.nic.in> and Newspapers for counseling dates. The counseling schedule can be downloaded from the website.

8. CATEGORY DEFINITIONS

- 8.1. Candidates, who have passed the qualifying examination from an institution located in the State of Uttar Pradesh and who do not claim for any reserved category are eligible for admission to all the courses at all the institutions against available General (OPEN) seats. [Code: UPGE]
No category certificate required from such candidates.
- 8.2. Candidates, who have passed the qualifying examination from an institution located in State of U.P. and are domicile of U.P. and belong to Schedule Caste (SC) of U.P./Schedule Tribe (ST) of U.P./Other Backward Classes of U.P. are eligible for admission against available reserved seats of their category. List of Schedule caste, Schedule Tribe and Other Backward Class are available on Appendix-F⁶.

⁶ It is as per State Govt. order and may change as per latest instructions of Govt. of U.P. upto the date of counselling

[Respective Codes: UPSC / UPST / UPBC]

Certificate No. 1 or 2, as applicable, is required.

- 8.3. Candidates, who have passed the qualifying examination from an institution located outside U.P. and whose parents are domicile of U.P. and who have not claimed for any reserved category, are also eligible for admission to courses offered at all institutions under General (OPEN) category. Such candidate must produce the domicile certificate of his/her parents (Father OR Mother only) at the time of counselling.

[Code: UPGD]

Certificate No. 3 required from such candidates

- 8.4. Candidates, who have passed the qualifying examination from an institution located outside U.P. and whose parents are domicile of U.P. and who belong to Schedule Caste of U.P. / Schedule Tribe of U.P. / Other Backward classes of U.P. are also eligible for admission against reserved seats of their category.

[Respective Codes: GDSC/GDST/GDBC]

Such candidate has to produce the domicile certificate of his/her parents (Father OR Mother only) (Certificate No. 3) and Category Certificate (Certificate No.1 or 2 as applicable) at the time of counselling.

- 8.5. The domicile requirement to son/daughter of following is **relaxed** and admission is permitted to such:
1. defense personnel settled in U.P. on the date of Entrance Examination after retirement / being disabled in action or Defense personnel killed in action and the dependents settled in U.P. on the date of Entrance Examination. *(Certificate no. 5 is required)*
 2. defense personnel who are not domicile of U.P., but are posted in U.P. on the date of Entrance Examination. *(Certificate no. 5 is required.)*
 3. Employee of **All India Services** belonging to U.P.cadre.*(Certificate no.11 is required)*

[Code: GDDA]

GDDA candidates will be considered as UPGD category for all other benefits.

- 8.6. Candidates, who have passed the qualifying examination from an institution located outside U.P. and whose parents are NOT domicile of U.P.

[Code: OSGE]

No category certificate required from such candidates.

Such candidates, along-with candidates of other categories, shall be considered only against 20 percent of the sanctioned intake of first year of all courses in Private Institutions affiliated to AKTU.

- 8.7. Proformas of various certificates are available in Appendix –D.

9. RESERVATION OF SEATS⁷

9.1. Vertical Reservation(Category):

Category	Percentage of Reservation
(a) Scheduled Caste from U.P.	21%
(b) Scheduled Tribe from U.P.	02%
(c) Other Backward Classes from U.P.	27%

9.2. Horizontal Reservation (Sub-category available in each category):

Sub-Category	Code	Maximum Percentage of Total Seats
(a) Dependents of Freedom Fighters from U.P.	UPFF	02%
(b) Sons / Daughters of defense personnel of U.P. either retired (superannuated) or killed/disabled in action or defense personnel posted in U.P./defense personnel domicile of U.P. & posted outside U.P.	UPAF	05%
(c) Divyang Jan ⁸ from U.P.	UPHC	03%
(d) Female from U.P.	UPGL	20%

9.3. The candidates can be given **only one** type of horizontal reservation out of UPFF/UPAF/UPHC. **However, the female candidates can also claim for any one of UPFF/UPAF/UPHC along with UPGL.**

9.4. Subsequent request for the change of category / sub-category filled in Application Form **shall not** be entertained under any circumstances.

9.5. Category/sub-category must be supported by the relevant certificates as per proforma given in Appendix-D to be produced at the time of counselling, failing which the candidates shall be treated in General Category

9.6. The advantage of horizontal reservation in Armed force sub-category is available to sons/daughters of 'defense personnel from U.P. either retired (Superannuated) or killed / disabled in action and the dependents settled in U.P.', and 'the defense personnel posted in U.P.' on the date of Entrance Examination.

9.7. Certificate no. 4, 5 and 6 are required at the time of counselling, for claiming reservations in subcategories mentioned at clause 9.2 (a), (b) and (c) respectively.

9.8. **The seats available under Fee Waiver scheme will be notified in respective category at the time of counselling.**

9.9. **Please note that benefits of UPGL subcategory will automatically be given to all the Female candidates of UPGD & UPGE.**

10. WEIGHTAGE TO CANDIDATES FROM RURAL AREAS OF UTTAR PRADESH

⁷ Reservation Policy will be applicable as per latest instructions of Govt. of U.P. upto the date of counselling

⁸ 60% Seats are Reserved for UPHC Category Candidates for Each Course offered in AITH : Dr. Ambedkar Institute of Technology for Handicapped, U.P.

- 10.1.** A weightage of 3% of the total marks obtained at UPSEE-2019 will be given to such UPGE candidates for B. Tech./B. Pharm./B.Arch./BHMCT/BFAD/BFA/B Voc courses, who have passed the qualifying examination from an institution situated in rural area of Uttar Pradesh.
- 10.2.** For this purpose, the institutions should be situated in the jurisdiction of Gram Panchayat but the area should not be industrially developed. Such candidates must produce Certificate Number 7 at the time of counselling.
- 10.3. Rural weightage is not applicable for a candidate opting any other reservation and for a candidate opting direct admission to second year.**
- 10.4. Rural weightage is not applicable for candidates under UPGD category defined in clause 8.3.**

11. MEDICAL STANDARDS

- 11.1.** Candidates will have to submit a certificate of Medical fitness/handicapped on Certificate number 9 at the time of counselling.
- 11.2.** The medical standards prescribed are given below:

Medical Standards Applicable:

Height	Candidate should be Physically fit to pursue his/her studies in opted course.
Weight	
Chest measurement	
Heart and lungs	No abnormality
Hernia, Hydrocele, Piles etc.	Presence of any of these is to be corrected before joining.
Vision	Normal. If defective, it must be got corrected to 6/9 in the better eye and 6/12 in the worse one. Eyes should be free from congenital or any other disease.
Hearing	Normal. If defective, it must be got corrected before joining.
Physically Handicapped / Disabled	The candidate having any one type of physical handicap/ disability given below.

Physically Handicapped / Disabled:

Type – I	Minimum 40% permanent Visual impairment
Type – II	Minimum 40% permanent Locomotors disability
Type – III	Minimum 40% permanent speech and Hearing impairment

12. CITY OF EXAMINATION

The UPSEE-2019 will be held at various cities as given in the following tables. The candidates are advised to give three choices of examination cities.

- (i) **All Papers are OMR based Tests** and shall be held in various cities given in the **Examination City Table**

Examination City (OMR Based Test)

Cities in State of U.P.			
Agra	Firozabad	Mathura	Aligarh
Allahabad	Azamgarh	Ballia	Mau
Bareilly	Shahjanpur	Basti	Banda
Gonda	Ambedkar Nagar	Barabanki	Faizabad
Sultanpur	Deoria	Gorakhpur	Kushinagar
Jalaun (Orai)	Jhansi	Etawah	Kanpur Nagar
Kanpur Dehat	Lakhimpur Kheri	Lucknow	Raebareili
Sitapur	Bulandshahr	Noida	Greater Noida
Ghaziabad	Meerut	Mirzapur	Bijnaur
Moradabad	Muzaffarnagar	Saharanpur	Ghazipur
Jaunpur		Varanasi	
Cities outside U.P.			
Bhopal	Dehradun	Delhi	Delhi
Patna	Ranchi	Jaipur	Kolkata
Mumbai	Rohtak	Jammu	Guwahati
Roorkee	Chandigarh	Chennai	Banglore
Hyderabad			

- (ii) **Candidates are advised to be VERY CAREFUL while giving their options for city of examination centre.** Candidates are advised to choose cities of examination on the basis of respective table i.e **Examination City Table**
- (iii) If any candidate chooses cities of examination where the examination for the paper opted is not being conducted, he/she shall be allotted an examination city from the respective list and same shall be binding upon the candidate.
- (iv) Certain examination cities may be cancelled if sufficient number of candidates does not opt for that city. Request for change of city of examination shall not be entertained under any circumstances.

13. ADMITCARD

- 13.1. Admit card will be available online on the website <http://www.upsee.nic.in> to every candidate. **Downloaded admit card shall be treated as valid admit card.** The candidates are advised to check the details of admit cards with regards to their category, sub-category, gender, rural weightage, Name, Father's Name etc. as mentioned on the Admit Card.
- 13.2. No candidate will be allowed to appear in the examination without admit card.
- 13.3. If any candidate is unable to download his/her admit card, he/she should contact the helpline as indicated on the website <http://www.upsee.nic.in> or send an email to the mail address upsee.helpdesk@aktu.ac.in latest by **20th April, 2019.**
- 13.4. A plea that a candidate failed to receive the information for appearing at the Examination will not be accepted as a ground for the refund of fee or any other redressal. UPSEE-2019 may withdraw the permission to appear in UPSEE-2019 granted by mistake to a candidate who is not eligible to appear at the UPSEE-2019 even if an Admit Card has been issued and produced by the candidate before the concerned Centre Superintendent at the Examination Centre.
- 13.5. In case of any reported correction, the final corrected admit card will have to be downloaded from

website <http://www.upsee.nic.in> or <https://aktu.ac.in> before the examination date.

- 13.6. Since successful candidates are required to produce the Admit Card at the time of counselling and admission, hence it should be carefully preserved until the admission process is completed.**

14. MEDIUM AND MODE OF EXAMINATION & EVALUATION

All question papers (except part B of paper-3) will carry objective multiple-choice questions. Answers of Paper 1 to Paper 8 will be evaluated by OMR methodology. All question papers for undergraduate admissions (except Part B paper-3) will be in Hindi and English both, but in case of any ambiguity, the English version shall be considered final. The candidates appearing in the UPSEE-2019 have the option to answer part B of Paper-3 either in English or in Hindi. In all cases, the Standard English numerals must be used.

15. COUNSELLING

- 15.1.** Successful candidates will be required to participate in the counselling process. The information about Counselling procedure, Counselling Schedule and all relevant information regarding counseling etc., will be notified on the website <http://www.upsee.nic.in>.

16. EXAMINATION FEE

The examination fee for the On-Line Application is as follows:

For Male / Transgender Candidates of General/ OBC Category	For SC/ST Category/Female/PH Candidates of All the category
Rs. 1300/-	Rs. 650/-

The examination fees have to be submitted On-Line through Credit/debit Card/ Net Banking while submitting the On-Line Application. Please note that the bank may additionally charge service charges plus applicable taxes while making the payment through Credit/Debit card/Net banking.

17. TUITION FEES

- 17.1.** The tuition fees in Govt. / Govt. aided colleges / institutes shall be as per latest orders of Government of U.P applicable in the respective colleges/institutes. However, few courses are under self finance scheme and the details of the fee for such courses can be obtained by respective colleges/institutions. However, information about amount of the hostel and other fee can be obtained from the institute itself.

- 18.** The fees in Private Institutions/Govt. aided Institutions running self-finance courses will be as per the latest notification/ orders issued by Govt. of Uttar Pradesh/ Fee Fixation Committee

19. LAST DATE OF SUBMISSION OF ON-LINE APPLICATION FORM

Application Form for UPSEE-2019 can be submitted On-Line only through website <http://www.upsee.nic.in> from **23rd January 2019, 02:00 PM**. The Last Date of filling and submitting the On-Line Application Form is **15th March 2019, 05:00 PM**.

HOW TO FILL ON-LINE APPLICATION FORM (UG & PG COURSES)

The On-Line application to UPSEE-2019 can be filled and submitted as per clause 18, clause 19, clause 20 and clause 21 of the Information Brochure as given below.

20. AVAILABILITY OF INFORMATION BROCHURE

The Information Brochure will be available ON LINE on the websites <http://www.upsee.nic.in> only. The same can be downloaded and/or printed for reference by the candidates. The application form can be filled in On-Line through Internet from any place of convenience.

21. HOW TO FILL AND SUBMIT THE ON-LINE APPLICATION FORM

21.1. APPLICATION PROCEDURE

The online application can be made from 02:00 PM, 23rd Jan 2019 till 05:00 PM of 15th March 2019 through the website <http://www.upsee.nic.in>. The On-Line Application Form is self-explanatory. For assistance, in case of any difficulty in filling up ON-LINE application form, candidate may contact at Toll Free Number 1800-180-0161 or send an email at upsee.helpdesk@aktu.ac.in with subject line "Seeking Help".

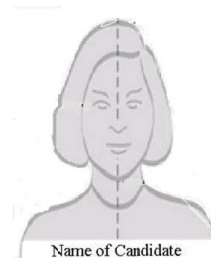
21.2. The On-Line application form submission consists of following three simple steps.

1. Registration (Filling up of Personal and other Details)
2. Uploading of Scanned Images of Photograph and Signature.
3. Payment of Examination Fee and Printing of the "Confirmation Page"

21.3. Before, a candidate starts filling the On-Line application Form, he/she must be ready with the following:

1. Personal Identity Document/Number.
2. A personal mobile phone number and a personal E-Mail id.

3. **Photograph:** A clear scanned image of his/her recent color passport size photograph (3.5cm X 4.5cm) in JPEG Format with a maximum size of 100 KB. The photograph must be front facing to the camera in a manner that full face shows. The back-ground should be either white or off-white and uncluttered. The photograph should be colour with name of the candidate printed on it as shown in the sketch below. It should be without cap or goggles. Spectacles are allowed.



Candidates with unclear photograph are liable to be rejected. Candidates may keep 6-8 identical photographs in reserve for use at the time of entrance examination.

4. A clear scanned image of his/her signature (3.5 cm x 1.5 cm) in JPEG format with a maximum size of 30 KB

21.4. Once ready with this he/she may proceed to following steps. Visit the website <http://www.upsee.nic.in> (Please use the Latest Web Browsers (Mozilla Firefox/Google Chrome/Internet Explorer 10 or above/)) and choose the

appropriate link as follows for filling up the application form.

- Follow the link “**UP State Entrance Examination for UG (UPSEE-2019)**” for filling the application form for admission to Under Graduate Programmes: B.Tech./ B.Des./ B.Arch./ B.Pharm/ BHMCT/ BFAD/ BFA/MBA(Intg.)/MCA(Intg.)/ Direct admission to 2nd year of B.Tech./ B.Pharm.
- Follow the link “UP State Entrance Examination for PG (UPSEE-2019)” for filling the application form for admission to PG programmes : MBA/MCA and Direct admission to 2nd year of MCA. You may now start filling the application by clicking the link “Apply” at the bottom of the page

A new screen containing the Instructions and Procedure for online submission of Application Form appears. Read this page carefully and thereafter follow the link “Click here to proceed” at the bottom of the page which takes you to the On-Line Application Form. Now start filling the Application Form.

1. Step1: Registration and Filling up Details of Personal, Educational and other Details

- (i) The On-Line Application Form is self explanatory. You are required to fill up all the personal details such as Name, Father’s Name, Mother’s Name, Domicile of your parent, state from where you have passed or appearing in the qualifying examination, Communication details such as address, mobile phone number, email etc., Course Apply details such as qualifying examination detail, subjects in the qualifying examination etc. You are also required to choose paper as per eligibility, choice of city for examination centre etc during the filling of the online application form.
- (ii) After filling these details, you are required to choose “Password” and security question. You are required to remember this “Password” till the examination is over. Please note that this Password along with Application Number generated by the system will be required in future to login into the system again. You are advised not to share this password with anyone.
- (iii) Form aking changes in the Application Form, you may click the “EDIT” Button at the bottom as many times as you want.
- (iv) After completion of the Application Form, you may submit the application form by clicking “SUBMIT” Button. Once you click “SUBMIT” Button, a Review pageshowing all the crucial information filled by you appears on the screen. Now, check all the information on the Review Page. If you want to change/modify some of the information provided in the Application Form, click the “EDIT APPLICATION FORM DATA” Button and modify the entries in Application Form as desired and“SUBMIT”.You can repeat this process as many times as you want.
- (v) Once you are satisfied with all the entries and want to submit the Application Form, click the “FINAL SUBMIT” Button. Please note that once you submit the application form by clicking the “FINAL SUBMIT” Button, the On-Line Application Form is finally submitted, and you will not be able to modify/change/edit the entries of your Application Form. Therefore, you are advised to click “FINAL SUBMIT” Button only when you are completely satisfied with entries on the application form, part of which has been shown on the “ReviewPage”.
- (vi) Before “FINAL SUBMIT” Button, you will notice a Declaration at the bottom. Please read the declaration and accept the declaration by ticking the check box named “I agree”. Unless you accept the declaration by ticking the given check box, you will not be able to submit the form.
- (vii) After Final Submission of the Application Form, Step 1 is completed, and an Application

Number is generated by the system. You are required to note this APPLICATION NUMBER for all future correspondences and to be able to Login again.

- (viii) Now you may proceed with Step 2. If you wish to complete the step 2 at later time, please Logout. Thereafter, Login again with your APPLICATION NUMBER and PASSWORD at a convenient time and complete the Step2.

2. Step 2: Uploading of Scanned Images of Photograph, Signature

- (i) Once Step1 is complete, then you may proceed now with Step 2 for uploading of the scanned images.
- Upload a clear scanned image of his/her recent passport size color photograph (3.5cm X 4.5cm) in JPEG Format with a maximum size of 100 KB. The photograph must be front facing to the camera in a manner that full face shows. The background should be either white or off-white and uncluttered.
 - Upload a clear scanned image of his/her signature (3.5cm X 1.5cm) in JPEG Format with a maximum size of 30KB.
- (ii) Please check/review that images that have been uploaded are clear and correct before pressing the “SAVE” Button. Once “SAVE” Button is pressed, you will not be able to change the images. Therefore, before pressing the “SAVE” Button, make it doubly sure that uploaded images are correct and clear. If images that have been uploaded are not proper or appears blurred, then you must upload a proper and clear image(s) again. Please note that an Application Form with blurred photograph or signature is liable to be rejected.
- (iii) Once you are satisfied with uploaded images, then you may press the “SAVE” Button. Once “SAVE” Button is pressed, images are finally uploaded and now you will not be able to change the image(s).
- (iv) You may now proceed with Step 3 for making payment of examination fee. If you wish to complete the Step 3 at a later time, please logout. Thereafter, Login again with your APPLICATION NUMBER and PASSWORD at a convenient time and complete the step3.

3. Step 3: Payment of Examination Fee through Credit Card / Debit Card/ Net-banking/Wallets and Downloading of “Confirmation Page”

After completion of Step 1 and Step 2, applicant may proceed with Step 3 for payment of Examination Fee. The examination fee can be paid On-Line ONLY through Credit Card/ Debit Card / Net Banking/Wallets

- (i) For making payment through Credit Card/ Debit Card/ Net Banking/ Wallets, choose appropriate “Mode of Payment” and click the link “Proceed for Payment” to make the payment of examination fee. All VISA/Master/RuPay cards are accepted. You should be ready with your Credit Card/ Debit Card/Net Banking details. Please note that, in addition to the examination fee, bank may charge extra amount as service charge and/or taxes as applicable.
- (ii) After making payment, a payment Transaction Number is generated. You are required to note this Transaction Number for future correspondences.
- (iii) If the payment is successful, a link appears on the screen/page named “Download

Confirmation Page”. You must download this “Confirmation Page “by clicking this link and save the “Confirmation Page” for record. You are also advised to take two copies of print-outs of this “Confirmation page” and keep them preserved for record and future communication. Now your application form is complete. You may log out. Please note that this “Confirmation Page” is not required to be sent to the University/UPSEE-2019 office. Your “Application Number ”is also printed on this “Confirmation Page”.

- (iv) Please note that you can view your Application Form later also. For this, you are required to Login again at the website <http://www.upsee.nic.in> using your Application Number and Password. Although, you will not be able to edit/modify your application Form.
- (v) Failed Transaction: In case, your transaction is failed for some reason, whatsoever , then you will not be able to download the “Confirmation Page”. If you are unable to download the “Confirmation page” and your account is debited, it means that transaction could not be updated at NIC server of UPSEE-2019. In case, you do not succeed to download the “Confirmation page”, it indicates that your transaction has failed, and you are required to make the Payment of Examination Fee again and download the confirmation page as explained in Point No (13) to Point No (16) above.
- (vi) However, the amount of Examination Fee against the failed transactions, which could not be updated on NIC Server of UPSEE-2019, shall be automatically refunded by the Bank after Reconciliation and shall be credited to the account from which the payment was made using your debit card/ credit card / Net Banking. In case, amount debited against the failed transaction is not refunded to your account within FIVE DAYS, you may send an email as follows.

To : upsee.helpdesk@aktu.ac.in
Subject : Failed Transaction

Please do not forget to mention the following in your mail.

- A) Your Application Number,
- B) Transaction Number
- C) Date of Birth, and
- D) Aadhar Number

- (vii) Please donot send the hard copy /softcopy/print-out of the Confirmation page or any other document to the University at this stage.
- (viii) In case of any difficulty in filling up the On-Line Application Form, you may contact UPSEE-2019 Helpdesk at Toll Free Number: 1800-180-0161 between 10:00 AM to 05:00 PM or send an email to upsee.helpdesk@aktu.ac.in with subject line: Seeking Help.

22. KEY ELEMENTS OF ON-LINE APPLICATIONFORM

Read carefully the entire Information Brochure before filling the On-Line Application Form. The On-Line Application Form is self-explanatory. Following are the key elements of the Application Form which will appear in the application (not necessarily in the order).

1. Name of the Candidate: Write your FULL NAME (in English Capital Letters) as recorded in your High School or equivalent examination certificate
2. Father’s Name: Write FULL NAME (in English CapitalLetters).
3. Mother’s Name: Write FULL NAME (in English CapitalLetters).
4. Date of Birth: Fill your date of birth exactly as recorded in your High School or equivalent

examination certificate in dd/mm/yyyyformat.

5. Nationality: Choose “INDIAN” if your Nationality is Indian other wise choose “OTHERS”
6. Gender: Choose Male or Female or Third Gender(Transgender) which ever is applicable.
7. Parent's Domicile: Choose “Uttar Pradesh” if at least one of your parents (Father/Mother) is domicile of U.P., Choose “Other than Uttar Pradesh” if none of your parents is domicile of U.P. and choose “GDDA” if belongs to clause 8.5 of Information Brochure.
8. Aadhar Number: This is certainly Aadhar number of candidate itself. The identity of candidate can be verified at the time of Entrance Examination/ Counselling/Admission to Institute/End Semester Examinations during course studies by Institute/University
9. Address for Communication: Write your complete mailing address with pin code in CAPITAL LETTERS for postal communication
10. Contact Mobile Phone Number: Write your mobile number. This mobile number will be used for communication with you during examination/admission process
11. E-Mail address: Write your E-Mail address. This mail address will be used for communication with you during examination/admission process.
12. Qualifying Examination Details:
 - Examination: Choose appropriate option(s) whether you have passed or are appearing in Intermediate (10+2)/ Diploma in Engg./Diploma in Pharmacy/ Diploma in Agriculture Engg./Diploma in Architecture/Graduate
 - Qualifying Examination Passed/ Appearing from college situated in: Choose “Uttar Pradesh” if you have passed or are appearing in qualifying examination form UP otherwise choose “Other than UttarPradesh”.
 - Year of Passing / Appearing: Write year of passing or appearing, whichever is applicable, the qualifying examination.
13. Subjects in Qualifying Examination: Choose the subject group in which you have passed / are appearing in, Qualifying Examination.
14. Choice of City of Centre for Entrance Examination in order of preference: Indicate three distinct choices for city of examination from where you wish to appear in UPSEE 2019. Refer to Clause 12 or Appendix-E of the Information Brochure for city of examination.
15. Category: Choose applicable category whether you are a candidate of UPGE, UPSC, UPST, UPBC, UPGD ,GDSC ,GDST ,GDDB ,GDDA ,OSGE. Refer to Clause8.1 to 8.6 of this Information Brochure
16. Sub-Category: Choose suitable sub category depending upon whether you belong to sub-category UPFF, UPAF or UPHC otherwise choose “NotApplicable” if you do not belong to any of the sub-categories. Refer to Clause 9.2 to 9.9 of this Information Brochure.
17. Rural Weightage Claimed: Choose “YES” if you are eligible for and want to claim rural Weightage otherwise choose “NO”. Refer to clause 10 of Information Brochure for rural weightage eligibility.
18. Seeking Admission For: Choose appropriate option First Year for UG or 2nd Year (Lateral Entry) or First Year for PG. Please note that this choice is linked with your qualification and subjects in the qualifying examination. Please refer to clause 3 & 4 of the Information Brochure
19. Course(s) APPLIED FOR: Choose appropriate course name(s) to which you are seeking

admission.

20. Papers in which you wish to appear in UPSEE-2019: Choose appropriate paper(s) in which you wish to appear. Refer Clause 4 of the Information Brochure.
21. Photograph: Upload scanned image of your recent 3.5 cm x 4.5 cm color photograph in JPEG format. The photograph which are not clear will be considered as an attempt of the act of impersonation and application form is liable to be rejected.
22. Signature: Upload scanned image of your signature in JPEG format.
23. Declaration: Read the declaration and accept the declaration by ticking the check box named "I agree" provided. Unless you accept the declaration by ticking the given check box, you will not be able to submit the form.
24. Mode of Payment: Choose the appropriate mode (Credit Card / Debit Card / Net Banking) of making payment of the prescribed examination fee and make the payment. Please note that in addition to the examination fee, bank may charge additional amount as service charge and taxes as applicable on the transaction.
25. Fee Amount in Rupees: Examination fee is Rs 1300.00 for Male/ Transgender candidates of General/OBC Category and Rs 650.00 for SC/ST candidates/ Physically Handicapped candidates and female candidates of all categories. Please refer to Clause 16 of the Information Brochure.

SYLLABI FOR UPSEE-2019

PAPER – 1 (PHYSICS, CHEMISTRY & MATHEMATICS)

Section A, PHYSICS

Measurement: Dimensional analysis and error estimation, dimensional compatibility and significant figures.

Motion in one dimension: Average velocity, instantaneous velocity, one-dimensional motion with constant accelerations, freely falling bodies.

Laws of Motion: Force and inertia, Newton's laws of motion, and their significance.

Motion in two dimensions: Projectile motion, uniform circular motion, tangential and radial acceleration in curve-linear motion, relative motion and relative acceleration.

Work, Power and Energy: Work done by a constant and variable forces, kinetic and potential energy, power, Conservative and non-conservative forces, conservation of energy, gravitational energy, work energy theorem, potential energy stored in a spring.

Linear Momentum & collisions: Linear momentum & impulse, conservation of linear momentum for two particle system, collisions, collision in one dimension, collision in two dimension, rocket propulsion.

Rotation of a rigid body about a fixed axis: Angular velocity and angular acceleration, rotational kinematics, rotational motion with constant angular acceleration relationship between angular and linear quantities, rotational energy, moment of inertia for a ring, rod, spherical shell, sphere and plane lamina, torque and angular acceleration, work and energy in rotational motion, rolling motion of a solid sphere and cylinder.

Gravitation: Gravitational field, Kepler's laws and motion of planets, planetary and satellite motion, geostationary satellite.

Oscillatory motion: Harmonic motion, oscillatory motion of mass attached to a spring, kinetic & potential energy, Time Period of a simple pendulum, comparing simple and harmonic motion with uniform circular motion, forced oscillations, damped oscillations and resonance.

Mechanics of solids and fluids: States of matter young's modulus, bulk modulus, shear modulus of rigidity, variations of pressure with depth, Buoyant forces and Archimedes principle, Pascal's law, Bernoulli's theorem and its application, surface energy, surface tension, angle of contact, capillary rise, coefficient of viscosity, viscous force, terminal velocity, Stoke's law, stream line motion, Reynold's numbers.

Heat and thermodynamics: First law of thermodynamics, specific heat of an ideal gas at constant volume and constant pressure, relation between them, thermodynamics process (reversible, irreversible, isothermal, adiabatic), second law of thermodynamics, concept of entropy and concept of absolute scale, efficiency of a Carnot engine, thermal conductivity, Newton's law of cooling, black body radiation, Wien's displacement law, Stefan's law.

Wave: Wave motion, phase, amplitude and velocity of wave, Newton's formula for longitudinal waves, propagation of sound waves in air, effect of temperature and pressure on velocity of sound, Laplace's correction, Principle of superposition, formation of standing waves, standing waves in strings and pipes, beats, Doppler's effect.

Electrostatics: Coulomb's law, electric field and potential due to point charge, dipole and its field along the axis and perpendicular to axis, electric flux, Gauss's theorem and its applications to find the field due to infinite sheet of charge, and inside the hollow conducting sphere, capacitance, parallel plate capacitor

with air and dielectric medium between the Plates, series and parallel combination of capacitors, energy of a capacitor, displacement currents.

Current Electricity: Concept of free and bound electrons, drift velocity and mobility, electric current, Ohm's law, resistivity, conductivity, temperature dependency of resistance, resistance in series and parallel combination, Kirchoff's law and their application to network of resistances, principle of potentiometer, effect of temperature on resistance and its application.

Magnetic Effect of Current: Magnetic field due to current, Biot-Savart's law, magnetic field due to solenoid, motion of charge in a magnetic field, force on a current carrying conductors and torque on current loop in a magnetic field, magnetic flux, forces between two parallel current carrying conductors, moving coil galvanometer and its conversion into ammeter and voltmeter.

Magnetism in Matter: The magnetization of substance due to orbital and spin motions of electrons, magnetic moment of atoms, diamagnetism, paramagnetism, ferromagnetism, earth's magnetic field and its components and their measurement.

Electro magnetic induction: Induced e.m.f., Faraday's laws, Lenz's law, electromagnetic induction, self and mutual induction, B-H curve, hysteresis loss and its importance, eddy currents.

Ray Optics and optical instruments: Sources of light, luminous intensity, luminous flux, illuminance, photometry, wave nature of light, Huygen's theory for propagation of light and rectilinear propagation of light, reflection of light, total internal reflection, reflection and refraction at spherical surfaces, focal length of a combination of lenses, spherical and chromatic aberration and their removal, refraction and dispersion of light due to a prism, simple and compound microscope, reflecting and refracting telescope, magnifying power and resolving power.

Wave Optics: Coherent and incoherent sources of light, interference, young's double slit experiment diffraction due to a single slit, linearly polarized light, Polaroid.

Modern Physics: Photo-electric equation, matter waves, quantization, Planck's hypothesis, Bohr's model of hydrogen atom and its spectra, ionization potential, Rydberg constant, solar spectrum and Fraunhofer lines, fluorescence and phosphorescence, X-Rays and their productions, characteristic and continuous spectra.

Nuclear Instability, radioactive decay laws, Emission of α , β , γ rays, Mass - defect, Mass Energy equivalence, Nuclear Fission Nuclear Reactors, Nuclear Fusion.

Classification of conductors, Insulators and semiconductors on the basis of energy bands in solids, PN junction, PN Diode, junction Transistors, Transistor as an amplifier and Oscillator.

Principles of Logic Gates (AND, OR and NOT) Analog Vs Digital communication, Difference between Radio and television, Signal propagation, Principle of LASER and MASER, Population Inversion, Spontaneous and stimulated Emission.

Section B, CHEMISTRY

Atomic Structure: Bohr's concept. Quantum numbers, Electronic configuration, molecular orbital theory for homo-nuclear molecules, Pauli's exclusion principle.

Chemical Bonding: Electrovalency, co-valency, hybridization involving s, p and d orbitals hydrogen bonding.

Redox Reactions: Oxidation number, oxidising and reducing agents, balancing of equations.

Chemical Equilibrium and Kinetics: Equilibrium constant (for gaseous system only) Le Chatelier's principle, ionic equilibrium, Ostwald's dilution law, hydrolysis, pH and buffer solution, solubility product, common-ion effect, rate constant and first order reaction.

Acid-Base Concepts: Bronsted Lowry & Lewis. **Electrochemistry:** Electrode potential and electro-chemical series. **Catalysis:** Types and applications.

Colloids: Types and preparation, Brownian movement, Tyndall effect, coagulation and peptization.

Colligative Properties of Solution: Lowering of vapor pressure, Osmotic pressure, depression of freezing point, elevation of boiling point, determination of molecular weight.

Periodic Table: Classification of elements on the basis of electronic configuration, properties of s,p and d block elements, ionization potential, electronegativity & electron affinity.

Preparation and Properties of the following: Hydrogen peroxide. copper sulfate, silver nitrate, plaster of paris, borax, Mohr's salt, alums, white and red lead, microcosmic salt and bleaching powder, sodium thiosulfate.

Thermo-chemistry: Exothermic & endothermic reactions Heat of reaction, Heat of combustion & formation, neutralization, Hess's law.

General Organic Chemistry: Shape of organic compounds, Inductive effect, mesomeric effect, electrophiles & nucleophiles, Reaction intermediates: carbonium ion, carbanions & free radical, Types of organic reactions, Cannizzaro Friedel Craft, Perkin, Aldol condensation.

Isomerism: Structural, Geometrical & Optical **IUPAC:** Nomenclature of simple organic compounds.

Polymers: Addition & condensation polymers **Carbohydrates:** Monosaccharides.

Preparation and Properties Of the Followings: Hydrocarbons, monohydric alcohols, aldehydes, ketones, monocarboxylic acids, primary amines, benzene, nitrobenzene, aniline, phenol, benzaldehyde, benzoic acid, Grignard Reagent.

Solid State: Structure of simple ionic compounds, Crystal imperfections (point defects only),Born-Haber cycle

Petroleum: Important industrial fractions, cracking, octane number, anti-knocking compounds.

Section C, MATHEMATICS

Algebra: Sets relations & functions, De-Morgan's Law, Mapping Inverse relations, Equivalence relations, Peano's axioms, Definition of rationals and integers through equivalence relation, Indices and surds, Solutions of simultaneous and quadratic equations, A.P., G.P. and H.P., Special sums i.e. $\sum n^2$ and $\sum n^3$ ($n \in \mathbb{N}$), Partial fraction, Binomial theorem for any index, exponential series, Logarithm and Logarithmic series. Determinants and their use in solving simultaneous linear equations, Matrices, Algebra of matrices, Inverse of a matrix, Use of matrix for solving equations.

Probability: Definition, Dependent and independent events, Numerical problem on addition and multiplication, theorem of probability.

Trigonometry: Identities, Trigonometric equations, properties of triangles, solution of triangles, heights and distances, Inverse function, Complex numbers and their properties, Cube roots of unity, De-Moivre's theorem.

Co-ordinate Geometry: Pair of straight lines, Circles, General equation of second degree, parabola, ellipse and hyperbola, tracing of conics.

Calculus: Limits & continuity of functions, Differentiation of function of function, tangents & normal, Simple examples of Maxima & Minima, Indeterminate forms, Integration of function by parts, by substitution and by partial fraction, definite integral, application to volumes and surfaces of frustums of sphere, cone and cylinder. Differential equations of first order and of first degree.

Vectors: Algebra of vectors, scalar and vector products of two and three vectors and their applications.

Dynamics: Velocity, composition of velocity, relative velocity, acceleration, composition of accelerations, Motion under gravity, Projectiles, Laws of motion, Principles of conservation of momentum and energy, direct impact of smooth bodies.

Statics: Composition of coplanar, concurrent and parallel forces moments and couples resultant of set of coplanar forces and condition of equilibrium, determination of centroid in simple cases, Problems involving friction.

PAPER – 2 (PHYSICS, CHEMISTRY & BIOLOGY)

Section A, PHYSICS

Measurement: Dimensional analysis and error estimation, dimensional compatibility and significant figures.

Motion in one dimension: Average velocity, instantaneous velocity, one-dimensional motion with constant accelerations, freely falling bodies.

Laws of Motion: Force and inertia, Newton's laws of motion, and their significance.

Motion in two dimensions: Projectile motion, uniform circular motion, tangential and radial acceleration in curve-linear motion, relative motion and relative acceleration.

Work, Power and Energy: Work done by a constant and variable forces, kinetic and potential energy, power, Conservative and non-conservative forces, conservation of energy, gravitational energy, work energy theorem, potential energy stored in a spring.

Linear Momentum & collisions: Linear momentum & impulse, conservation of linear momentum for two particle system, collisions, collision in one dimension, collision in two dimension, rocket propulsion.

Rotation of a rigid body about a fixed axis: Angular velocity and angular acceleration, rotational kinematics, rotational motion with constant angular acceleration relationship between angular and linear quantities, rotational energy, moment of inertia for a ring, rod, spherical shell, sphere and plane lamina, torque and angular acceleration, work and energy in rotational motion, rolling motion of a solid sphere and cylinder.

Gravitation: Gravitational field, Kepler's laws and motion of planets, planetary and satellite motion, geostationary satellite.

Oscillatory motion: Harmonic motion, oscillatory motion of mass attached to a spring, kinetic & potential energy, Time Period of a simple pendulum, comparing simple and harmonic motion with uniform circular motion, forced oscillations, damped oscillations and resonance.

Mechanics of solids and fluids: States of matter young's modulus, bulk modulus, shear modulus of rigidity, variations of pressure with depth, Buoyant forces and Archimedes principle, Pascal's law, Bernoulli's theorem and its application, surface energy, surface tension, angle of contact, capillary rise, coefficient of viscosity, viscous force, terminal velocity, Stoke's law, stream line motion, Reynold's numbers.

Heat and thermodynamics: First law of thermodynamics, specific heat of an ideal gas at constant volume and constant pressure, relation between them, thermodynamics process (reversible, irreversible, isothermal, adiabatic), second law of thermodynamics, concept of entropy and concept of absolute scale, efficiency of a Carnot engine, thermal conductivity, Newton's law of cooling, black body radiation, Wien's displacement law, Stefan's law.

Wave: Wave motion, phase, amplitude and velocity of wave, Newton's formula for longitudinal waves, propagation of sound waves in air, effect of temperature and pressure on velocity of sound, Laplace's

correction, Principle of superposition, formation of standing waves, standing waves in strings and pipes, beats, Doppler's effect.

Electrostatics: Coulomb's law, electric field and potential due to point charge, dipole and its field along the axis and perpendicular to axis, electric flux, Gauss's theorem and its applications to find the field due to infinite sheet of charge, and inside the hollow conducting sphere, capacitance, parallel plate capacitor with air and dielectric medium between the Plates, series and parallel combination of capacitors, energy of a capacitor, displacement currents.

Current Electricity: Concept of free and bound electrons, drift velocity and mobility, electric current, Ohm's law, resistivity, conductivity, temperature dependency of resistance, resistance in series and parallel combination, Kirchhoff's law and their application to network of resistances, principle of potentiometer, effect of temperature on resistance and its application.

Magnetic Effect of Current: Magnetic field due to current, Biot-Savart's law, magnetic field due to solenoid, motion of charge in a magnetic field, force on a current carrying conductors and torque on current loop in a magnetic field, magnetic flux, forces between two parallel current carrying conductors, moving coil galvanometer and its conversion into ammeter and voltmeter.

Magnetism in Matter: The magnetization of substance due to orbital and spin motions of electrons, magnetic moment of atoms, diamagnetism, paramagnetism, ferromagnetism, earth's magnetic field and its components and their measurement.

Electro magnetic induction: Induced e.m.f., Faraday's laws, Lenz's law, electromagnetic induction, self and mutual induction, B-H curve, hysteresis loss and its importance, eddy currents.

Ray Optics and optical instruments: Sources of light, luminous intensity, luminous flux, illuminance, photometry, wave nature of light, Huygen's theory for propagation of light and rectilinear propagation of light, reflection of light, total internal reflection, reflection and refraction at spherical surfaces, focal length of a combination of lenses, spherical and chromatic aberration and their removal, refraction and dispersion of light due to a prism, simple and compound microscope, reflecting and refracting telescope, magnifying power and resolving power.

Wave Optics: Coherent and incoherent sources of light, interference, young's double slit experiment diffraction due to a single slit, linearly polarized light, Polaroid.

Modern Physics: Photo-electric equation, matter waves, quantization, Planck's hypothesis, Bohr's model of hydrogen atom and its spectra, ionisation potential, Rydberg constant, solar spectrum and Fraunhofer lines, fluorescence and phosphorescence, X-Rays and their productions, characteristic and continuous spectra.

Nuclear Instability, radioactive decay laws, Emission of α , β , γ rays, Mass - defect, Mass Energy equivalence, Nuclear Fission Nuclear Reactors, Nuclear Fusion.

Classification of conductors, Insulators and semiconductors on the basis of energy bands in solids, PN junction, PN Diode, junction Transistors, Transistor as an amplifier and Oscillator.

Principles of Logic Gates (AND, OR and NOT) Analog Vs Digital communication, Difference between Radio and television, Signal propagation, Principle of LASER and MASER, Population Inversion, Spontaneous and stimulated Emission.

Section B, CHEMISTRY

Atomic Structure: Bohr's concept. Quantum numbers, Electronic configuration, molecular orbital theory for homonuclear molecules, Pauli's exclusion principle.

Chemical Bonding: Electrovalency, co-valency, hybridization involving s, p and d orbitals hydrogen bonding.

Redox Reactions: Oxidation number, oxidising and reducing agents, balancing of equations.

Chemical Equilibrium and Kinetics: Equilibrium constant (for gaseous system only) Le Chatelier's principle, ionic equilibrium, Ostwald's dilution law, hydrolysis, pH and buffer solution, solubility product, common-ion effect, rate constant and first order reaction.

Acid - Base Concepts: Bronsted Lowry & Lewis. **Electrochemistry:** Electrode potential and electro-chemical series. **Catalysis:** Types and applications.

Colloids: Types and preparation, Brownian movement, Tyndall effect, coagulation and peptization.

Colligative Properties of Solution: Lowering of vapor pressure, Osmotic pressure, depression of freezing point, elevation of boiling point, determination of molecular weight.

Periodic Table: Classification of elements on the basis of electronic configuration, properties of s,p and d block elements, ionization potential, electronegativity & electron affinity.

Preparation and Properties of the following: Hydrogen peroxide. copper sulfate, silver nitrate, plaster of Paris, borax, Mohr's salt, alums, white and red lead, microcosmic salt and bleaching powder, sodium thiosulfate.

Thermochemistry: Exothermic & endothermic reactions Heat of reaction, Heat of combustion & formation, neutralisation, Hess's law.

General Organic Chemistry: Shape of organic compounds, Inductive effect, mesomeric effect, electrophiles & nucleophiles, Reaction intermediates: carbonium ion, carbanions & free radical, Types of organic reactions, Cannizzaro Friedel Craft, Perkin, Aldol condensation.

Isomerism: Structural, Geometrical & Optical **IUPAC:** Nomenclature of simple organic compounds.

Polymers: Addition & condensation polymers **Carbohydrates:** Monosaccharides.

Preparation and Properties Of the Followings: Hydrocarbons, monohydric alcohols, aldehydes, ketones, monocarboxylic acids, primary amines, benzene, nitrobenzene, aniline, phenol, benzaldehyde, benzoic acid, Grignard Reagent.

Solid State: Structure of simple ionic compounds, Crystal imperfections (point defect only), Born-Haber cycle

Petroleum: Important industrial fractions, cracking, octane number, anti-knocking compounds.

Section-C BIOLOGY

Zoology

Origin of Life: Oparin's theory, Miller's Experiment, Viruses - structure, properties, distribution, classification and pathogenesis (Eg. AIDS, CANCER), Viroids & Prions, Biotic balance.

Organic Evolution: Relationship among organisms and Evidences of organic Evolution - Principles of Evolution - Lamarckism, Darwinism and Speciation.

Mechanism of Organic Evolution: Variations - Definition, causes and types, Mutations (Principles of Hugo de Vries), Role of mutations in speciation. Evolution through ages and human evolution

Human Genetics and Eugenics: Human hereditary traits, study of Twins, A.B.O. blood groups and their inheritance, Rh-factor, Sex determination. Chromosomal aberrations, Important human syndromes, Sex linked characters and their inheritance, Applied Genetics - eugenics, eugenics, eugenics & I.Q. Test.

Applied Biology: Wild life of India - Endangered species: Biosphere Reserves, National Parks and sanctuaries, Project Tiger, Conservation of wild life, Bio-energy, Poultry, Fisheries (edible fishes), Human

Population, Population explosion, problems & control. Test - Tube babies, & Amniocentesis, Application of Biotechnology in human welfare. Human Aging.

Mammalian Anatomy (Eg. Rabbit): Reproductive system (excluding embryonic development) Osteology, structure and organization of different systems.

Animal Physiology:

(A) *Animal Nutrition:* Food, Balanced diet, Nutritional imbalances and deficiency diseases, Digestion, Absorption, Assimilation of food, (comparison between human and Rabbit).

(B) *Animal Excretion and Osmoregulation:* Chemical nature of excretory products in various animals, Physiology of excretion, Function of liver and kidney (Homeostatic regulatory functions of kidneys), Formation of urine, Osmoregulation by kidneys.

(C) *Respiratory system:* Exchange and transport of gases (O_2 and CO_2) factors affecting O_2 and CO_2 transport, Cellular respiration, different lung volumes, breathing and sound production.

(D) *Nervous systems:* Central, autonomic and peripheral nervous system, Receptors, Effectors, Reflex- action. Nature and conduction of Nerve- impulses, Synapse, Sense organs - Structure & working of Eye & Ear, Biochemistry of vision and taste buds.

(E) *Endocrine System:* Different endocrine glands and Hormones - definition, types, characteristics and their functions, (in relation to human beings), Hormonal disorders and pheromones.

(F) *Circulatory System:* Circulation of body fluids- Blood and lymph, Open and closed vascular systems, Structure and working physiology of Heart, Comparison between arteries and veins, Lymphatic system.

(G) *Animal Diversity:* Classification of Animal kingdom (Based on Storer & Eusinger), Characteristic feature of different phyla and classes with examples.

Detailed studies of followings:

- (a) Protozoa
 - (i) Amoeba-Habit & Habitat, structure, locomotion, reproduction, Osmoregulation, Parasitic amoeba - Entamoeba histolytica and Entamoeba gingivalis, structure, diseases caused by them and their control measures.
 - (ii) Plasmodium vivax-life-cycle, malaria therapy and control.
 - (iii) Protozoan and diseases
- (b) Porifera: A simple sponge (Leucosolenia); Detailed study of structure & physiology, Sponge industry.
- (c) Coelenterata: Hydra - Habit and Habitat, morphology, tissue differentiation in relation to physiological division of labour and regeneration.
- (d) Aschelminthes: Ascaris- morphology, life-cycle, therapy and control.
- (e) Annelida: Pheretima posthuma - Bionomics and economic importance.
- (f) Arthropoda: (Periplaneta): Structure- external and internal.

Comparison between Periplaneta and Blatta.

- (i) House fly & Mosquito: structure and life-cycle
- (ii) Economic importance of insects & their control.

Botany

Plant Cell: Structure & functions electron microscopic structured mitochondria, Plastids centrosomes. Lysosomes, microsomes, endoplasmic reticulum, Nucleus, Golgi bodies, D.N.A & R.N.A. Cytoplasm, membranes and cell wall.

Protoplasm: structure, components physical and chemical properties.

Cell division (formation) - free cell formation, Amitosis & Meiosis, Duplication of D.N.A.

Ecology: Ecological factors (atmospheric, edaphic, climatic, geological & biotic factors).

Ecosystem: Structure, components of ecosystem eg. Water soluble minerals and gases, producers consumers, decomposers, Pond and forest ecosystem.

Atmospheric pollution-causes and control, Types of pollution - Detergents, chemicals automobile exhaust, Radioactive matter, Smog, sound, Pesticides.

Genetics: Mendalism, Mendals experiment and law of inheritance.

Modern Classification of plant kingdom- (according to Ostwald & Tippo) (outline).

Seeds in angiospermic plants: description of development of angiospermic plants (life history of angiospermic plants).

Fruits: Dispersal of fruits and seeds

Cell differentiation Plant Tissue: Meristematic classification of meristematic&permanent tissue and functions and classification of tissue system.

Anatomy of Root, stem and leaf: difference between dicot and Monocot stem. Secondary growth of stem and root. Anatomy of hydrophytes, Xeophytes & Mesophytes.

Important phylums:

Algae: Habitat, general characters & uses, description of ulothrix & spirogyra. Bacteria: structure - types of nutrition, reproduction and economic importance.

Fungi: structure description of Rhizopus and yeast and their economic importance, Fermentation. Broyophyta: structure and economic importance, description of funaria (Moss)

Pteridophyta: general structures of pteridophytes description of fern (Droypteris) General study of gymnosperms and life history of cycas.

Classification of angiosperm,

Description of families - identification and economic importance Cruciferae, Malvaceae, Leguminosae, compositeae, cucurbitaceae. **Soil:**

Absorption of water through root hairs osmosis, Translocation and Root pressure Nitrogen cycle.

Special modes of nutrition in plants (Autotrophic, heterotrophic, Parasites, saprophytes, Symbionts insectivorous and their ecological relation.

Photosynthesis: Chloroplast, light, chlorophyll and Carbon dioxide, Mechanism of photosynthesis formation of A.T.P. and their functions and importance of photosynthesis.

Transpiration: factors and importance, Mechanism of opening and closing of stomata.

Respiration: aerobic, anaerobic respiration, mechanism of respiration (Glycolysis, Kreb's cycle, E.T.S.)

Growth & movement: definition of growth, Region of growth & their measurements, types of movements in plants, Growth harmone.

PAPER – 3 (APTITUDE TEST FOR ARCHITECTURE& DESIGN)

Part – A: Mathematics & Aesthetic Sensitivity

MATHEMATICS

Algebra: Sets relations & functions, De-Morgan's Law, Mapping Inverse relations, Equivalence relations, Peano's axioms, Definition of rationals and integers through equivalence relation, Indices and surds, Solutions of simultaneous and quadratic equations, A.P., G.P. and H.P., Special sums i.e. $\sum n^2$ and $\sum n^3$ ($n\sum N$), Partial fraction, Binomial theorem for any index, exponential series, Logarithm and Logarithmic series. Determinants and their use in solving simultaneous linear equations, Matrices, Algebra of matrices, Inverse of a matrix, Use of matrix for solving equations.

Probability: Definition, Dependent and independent events, Numerical problem on addition and multiplication, theorem of probability.

Trigonometry: Identities, Trigonometric equations, properties of triangles, solution of triangles, heights and distances, Inverse function, Complex numbers and their properties, Cube roots of unity, De-Moivre's theorem.

Co-ordinate Geometry: Pair of straight lines, Circles, General equation of second degree, parabola, ellipse

and hyperbola, tracing of conics.

Calculus: Limits & continuity of functions, Differentiation of function of function, tangents & normal, Simple examples of Maxima & Minima, Indeterminate forms, Integration of function by parts, by substitution and by partial fraction, definite integral, application to volumes and surfaces of frustums of sphere, cone and cylinder. Differential equations of first order and of first degree.

Vectors : Algebra of vectors, scalar and vector products of two and three vectors and their applications.

Dynamics: Velocity, composition of velocity, relative velocity, acceleration, composition of accelerations, Motion under gravity, Projectiles, Laws of motion, Principles of conservation of momentum and energy, direct impact of smooth bodies.

Statics: Composition of coplanar, concurrent and parallel forces moments and couples resultant of set of coplanar forces and condition of equilibrium, determination of centroid in simple cases, Problems involving friction.

Aesthetic sensitivity

Aesthetic sensitivity Test is aimed to evaluate a candidate for aesthetic Perception, Imagination, and Observation; Creativity and Communication; and Architectural awareness.

- Visualizing three dimensional objects from two dimensional drawings
- Visualizing different sides / surfaces of three dimensional objects.
- Identifying commonly used materials and objects based on their textural qualities.
- Analytical Reasoning
- Mental Ability
- Imaginative comprehension and expression
- Architectural awareness

Part- B: Drawing Aptitude

The Drawing Aptitude Test is aimed to evaluate a candidate for his understanding of Scale and Proportion; sense of perspective, color and; understanding of the effects of light on objects through shades and shadows

- Ability to sketch a given object proportionately and rendering the same in visually appealing manner
- Visualising and drawing the effects of light on the objects and their shadow cast on the surroundings.
- Sense of Perspective Drawing
- Combining and composing given three dimensional elements to form a building or structural form
- Creating interesting two dimensional compositions using given shapes or planner forms
- Creating visual harmony using colors in given composition
- Understanding of scale and sense of proportion

PAPER – 4 (APTITUDE TEST FOR GENERAL AWARENESS (BHMCT/BFAD/BFA/ MBA (Integrated))

(A) Reasoning & Logical Deduction:

- Geometrical designs & Identification
- Selection of related letters / words / numbers / figures
- Identification of odd thing / item out from a group
- Completion of numerical series based on the pattern /logic
- Fill in the blanks of the series based on the numerical pattern and logic of the series
- Syllogisms (logic based questions), Identification of logic & selection of correct answers based on the

logic

(B) Numerical Ability & Scientific Aptitude:

- Arithmetical questions up to 10th standard
- Calculation of fraction, percentages, square root setc.
- Profit & Loss and Interest calculations
- Data/Table analysis, Graph & Bar Diagram and Pie Chart analysis
- Questions related to common use of science (Physics & Chemistry)
- Health & Nutrition

(C) General Knowledge:

- Current affairs / Events (Political, Social, Cultural & Economics)
- Historical events
- Geography including Tourist Places/Spots
- Current affairs relating to Business & Trade
- Countries & Currencies
- Latest Who's Who?
- Sports & Games

(D) English Language:

- Word Meanings
- Antonyms & Synonyms
- Meaning of Phrases & Idioms
- Fill in the blanks
- Complete / Improvement of the sentences with correct use of Pronouns, Verbs, Adverbs & Adjectives
- Reading comprehension's followed by questions

PAPER – 5 (APTITUDE TEST FOR LATERAL ENTRY IN ENGINEERING (B.SC. GRADUATES) / LATERAL ENTRY IN 2nd Year MCA)

Part 1: Mathematics

Algebra: Sets relations & functions, De-Morgan's Law, Mapping Inverse relations, Equivalence relations, Peano's axioms, Definition of rationals and integers through equivalence relation, Indices and surds, Solutions of simultaneous and quadratic equations, A.P., G.P. and H.P., Special sums i.e. $\sum n^2$ and $\sum n^3$ ($n \sum N$), Partial fraction, Binomial theorem for any index, exponential series, Logarithm and Logarithmic series. Determinants and their use in solving simultaneous linear equations, Matrices, Algebra of matrices, Inverse of a matrix, Use of matrix for solving equations.

Probability: Definition, Dependent and independent events, Numerical problem on addition and multiplication, theorem of probability.

Trigonometry: Identities, Trigonometric equations, properties of triangles, solution of triangles, heights and distances, Inverse function, Complex numbers and their properties, Cube roots of unity, De-Moivre's theorem.

Co-ordinate Geometry: Pair of straight lines, Circles, General equation of second degree, parabola, ellipse and hyperbola, tracing of conics.

Calculus: Limits & continuity of functions, Differentiation of function of function, tangents & normal, Simple examples of Maxima & Minima, Indeterminate forms, Integration of function by parts, by substitution and by partial fraction, definite integral, application to volumes and surfaces of frustums of sphere, cone and cylinder.

Differential equations of first order and of first degree.

Vectors: Algebra of vectors, scalar and vector products of two and three vectors and their applications.

Dynamics: Velocity, composition of velocity, relative velocity, acceleration, composition of accelerations, Motion under gravity, Projectiles, Laws of motion, Principles of conservation of momentum and energy, direct impact of smooth bodies.

Statics: Composition of coplanar, concurrent and parallel forces moments and couples resultant of set of coplanar forces and condition of equilibrium, determination of centroid in simple cases, Problems involving friction.

Part 2: Computer Concepts

Computer Basics: Organization of computer, Central Processing unit (CPU), Structure of instructions in CPU, Input/ Output devices, Computer memory, Memory organization,

Data Representation:- Representation of characters, Integers, Binary and hexadecimal representation, Binary arithmetic – addition, subtraction, division, multiplication, signed arithmetic and two's complement arithmetic. Floating point representation of numbers, normalized floating point representation, Boolean algebra, truth tables, Venn diagrams

Data Structures- Arrays, lists, stacks, queues

Computer Architecture: Block structure of computers, Communication between processor and I/O devices, Interrupts

Computer Language:- Assembly language and high level language, Computer programming in C

Operating System Basics

PAPER – 6 (APTITUDE TEST FOR MBA/ MCA)

The test is aimed at evaluating the verbal ability, quantitative aptitude, logical & abstract reasoning and knowledge of current affairs. The following is a brief description of contents of the test paper.

Section A (English Language): Grammar, vocabulary, uncommon words, sentence completion, synonyms, antonyms, relationship between words & phrases and comprehension of passages.

Section B (Numerical Aptitude): Numerical calculation, arithmetic, simple algebra, geometry and trigonometry, Interpretation of graphs, charts and tables.

Section C (Thinking and Decision Making): Creative thinking, unfamiliar relationships, verbal reasoning, finding patterns trends and Assessment of figures & diagrams.

Section D (General Awareness): Knowledge of current affairs and other issues related to trade, industry, economy, sports, culture and science.

PAPER – 7 (APTITUDE TEST FOR DIPLOMA HOLDERS IN PHARMACY)

1. Pharmaceutics-I
2. Pharmaceutical Chemistry -I
3. Pharmacognosy
4. Biochemistry and Clinical Pathology
5. Human Anatomy and Physiology
6. Health Education & Community Pharmacy
7. Pharmaceutics -II
8. Pharmaceutical Chemistry -II
9. Pharmacology and Toxicology
10. Pharmaceutical Jurisprudence
11. Drug Store and Business management
12. Hospital and Clinical Pharmacy

PAPER – 8 (APTITUDE TEST FOR DIPLOMA HOLDERS IN ENGINEERING)

Engineering Mechanics, Engineering Graphics, Basic Electrical Engg., Basic Electronics Engg., Elements of computer science, Elementary Biology, Basic Workshop Practice and Physics/Chemistry/Maths of Diploma standard.

Appendix B & C

List of Institutions/Branches/Intake of UG & PG Courses

Please see the Website: <http://www.upsee.nic.in> or <https://aktu.ac.in>

CERTIFICATE – 1 (प्रमाण पत्र-1)

अनुसूचित जाति/जनजाति(UPSC/UPST/GDSC/GDST)

(अभ्यर्थी के जन्म जिले के जिला मजिस्ट्रेट/प्रथम श्रेणी मजिस्ट्रेट द्वारा प्रमाणित)

यह प्रमाणित किया जाता है कि श्री/कु0 पुत्र/पुत्री श्री
..... निवासी गाँव/शहर तहसील जिला
.....प्रदेश का जन्म जाति में हुआ था और यह जाति
अनुसूचित जाति/जनजाति आदेश (संशोधन) एक्ट 1956 के अन्तर्गत भारत सरकार/उत्तर प्रदेश
शासन सरकार द्वारा मान्य अनुसूचित जाति/जनजाति है।

अभ्यर्थी के हस्ताक्षर

हस्ताक्षर

दिनांक

नाम

स्थान

मोहर

जिला अधिकारी / अतिरिक्त जिला अधिकारी/

सिटी मजिस्ट्रेट / परगना मजिस्ट्रेट / तहसीलदार

Note: Performa of certificate shall be changed according to latest Govt. order.

CERTIFICATE – 2 (प्रमाण पत्र-2)

उत्तर प्रदेश के अन्य पिछड़े वर्ग के लिए जाति प्रमाण पत्र का प्रपत्र(UPBC/GDBC)

यह प्रमाणित किया जाता है कि श्री/श्रीमती /कुमारी
सुपुत्र/सुपुत्री श्रीनिवासी ग्राम
..... तहसील नगर जिला
उत्तर प्रदेश राज्य की पिछडी जाति के व्यक्ति हैं। यह जाति उत्तर प्रदेश लोक
सेवा अनुसूचित जातियों । अनुसूचित जनजातियों तथा पिछडे वर्गों के लिए आरक्षण अधिनियम, 1994
की अनुसूची – 1 के अन्तर्गत मान्यता प्राप्त है।
यह भी प्रमाणित किया जाता है कि श्री/श्रीमती/कुमारी
उक्त अधिनियम 1994 की अनुसूची –2 (अधिसूचना संख्या –22/16/92-का 02/1995 टी0 सी0
दिनांक 8 दिसम्बर, 1995 द्वारा यथा संशोधित) से आच्छादित नहीं है।
श्री/श्रीमती/कुमारी तथा अथवा उनका परिवार उत्तर प्रदेश
के ग्राम नगर जिला
..... में सामान्यतया रहता है।

अभ्यर्थी के हस्ताक्षर

हस्ताक्षर

दिनांक

नाम

स्थान

मोहर

जिला अधिकारी / अतिरिक्त जिला अधिकारी /

सिटी मजिस्ट्रेट / परगना मजिस्ट्रेट / तहसीलदार

Note that the Certificate No. 2 for OBC candidates will be entertained only if it is valid as on 31.07.2019, in case a certificate has no validity mentioned it should be issued on or after 01.04.2019 (mandatory due to condition of creamy layer for OBC).

CERTIFICATE – 3(प्रमाण पत्र-3)

उत्तर प्रदेश के मूल/सामान्य निवासी के पुत्र/पुत्री(UPGD/GDSC/GDST/GDBC)
(उस जिले के अधिकारी द्वारा प्रमाणित जिस जिले के माता/पिता निवासी है)

यह प्रमाणित किया जाता है कि श्री/श्रीमती (अभ्यर्थी के पिता/माता का नाम)
.....पिता/माता श्री/कु0(अभ्यर्थी का नाम)..... उत्तर प्रदेश
के गाँव/शहर तहसील जिला
के मूल निवासी हैं तथा श्री/कु0 (अभ्यर्थी का नाम)अपने
पिता/माता पर पूर्णतया आश्रित हैं। उक्त पते पर श्री/कु0 (अभ्यर्थी का नाम)
.....के माता/पितासामान्यतः निवास करते हैं।

दिनांक
स्थान

हस्ताक्षर जिला मजिस्ट्रेट
पूरा नाम
पदनाम
मुहर (जिला मजिस्ट्रेट की सील)

जिला मजिस्ट्रेट अथवा जिला मजिस्ट्रेट द्वारा अधिकृत अपर जिला मजिस्ट्रेट/सब डिवीजन मजिस्ट्रेट
द्वारा प्रमाण पत्र ही मान्य होंगे जो शा0आ0 सं0-157/तीन -2003-77(II)/83 दिनांक 18 फरवरी,
2003 के अधीन जारी किया जायेगा।

नोट-प्रमाण पत्र-3 अभ्यर्थी के माता/पिता का बना होना चाहिए क्योंकि अभ्यर्थी जिन्होंने अर्हकारी
परीक्षा उत्तर प्रदेश के बाहर स्थित किसी विद्यालय से उत्तीर्ण की है परन्तु उनके माता/पिता उत्तर
प्रदेश के मूल/स्थायी निवासी हैं परीक्षा में बैठने के पात्र हैं।

CERTIFICATE – 4 (प्रमाण पत्र-4)(Sub-Category UPPF)

उत्तर प्रदेश लोक सेवा (शारीरिक रूप से विकलांग, स्वतंत्रता संग्राम सेनानी के आश्रितों और भूतपूर्व
सैनिकों के लिए आरक्षण) अधिनियम, 1993 के अनुसार स्वतंत्रता संग्राम सेनानी के आश्रित के प्रमाण
पत्र का प्रपत्र

प्रमाणित किया जाता है कि श्री/श्रीमती (स्वतंत्रता संग्राम सेनानी का नाम)
निवासी ग्रामतहसील नगर
जिला उत्तर प्रदेश लोक सेवा (शारीरिक रूप से विकलांग, स्वतंत्रता संग्राम
सेनानी के आश्रितों और भूतपूर्व सैनिकों के लिए आरक्षण) अधिनियम 1993 के अनुसार स्वतंत्रता
संग्राम सेनानी हैं और श्री/श्रीमती/कु0(आश्रित अभ्यर्थी का नाम)
..... पुत्र/पुत्री/पौत्र/अविवाहित पौत्री उपरंकित अधिनियम, 1993 के ही प्रावधानों के अनुसार उक्त
श्री/श्रीमती (स्वतंत्रता संग्राम सेनानी) के आश्रित हैं।

दिनांक
स्थान

हस्ताक्षर
पूरा नाम एवं पदनाम
मुहर (जिला मजिस्ट्रेट की सील)

Note: Proforma of certificate may be changed according to latest Govt. order.

CERTIFICATE – 5 (प्रमाण पत्र-5)

Part – A

उत्तर प्रदेश/सेना दल(Sub-Category UPAF)

(अंतिम यूनिट के आफिसर कमान्डिंग/जिला सैनिक कल्याण बोर्ड द्वारा प्रमाणित)

यह प्रमाणित किया जाता है कि श्री/श्रीमती (अभ्यर्थी के पिता अथवा माता का नाम)
.....निवासी गाँव/शहर तहसील जिला
.....उत्तर प्रदेश, के दिनांकको सेवा निवृत्त (Superannuated) युद्ध में मारे
गये/अपंग हो गये/उत्तर प्रदेश में वर्तमान में तैनात है। वे भारतीय थलसेना/जलसेना/वायुसेना के
स्थान दिनांक..... से दिनांक तक कार्यरत
थे/हैं।

दिनांक
स्थान

यूनिट कमान्डिंग आफिसर के हस्ताक्षर
नाम
मोहर

Part – B

(जिला मजिस्ट्रेट द्वारा प्रमाणित)

यह प्रमाणित किया जाता है कि श्री/कु0(अभ्यर्थी) निवासी
.....उत्तर प्रदेश गाँव/शहर तहसील जिला
उपरोक्त सेना दल के सेवा निवृत्त(Superannuated)युद्ध में मारे गये या अपंग हो गये कर्मचारी जो
उत्तर प्रदेश के स्थायी निवासी हैं/थे, के पुत्र/पुत्री हैं अथवा प्रवेश परीक्षा की तिथि को उत्तर प्रदेश
भारतीय थलसेना/जल सेना/वायुसेना में कार्यरत थे/हैं।

दिनांक
स्थान

हस्ताक्षर
नाम
मोहर

CERTIFICATE – 6 (प्रमाण पत्र-6) (Sub-Category UPHC)

शारीरिक विकलांग के अधिमान के लिए प्रमाण पत्र (मुख्य चिकित्सा अधिकारी द्वारा प्रमाणित)

1- यह प्रमाणित किया जाता है कि श्री/कु0(अभ्यर्थी)
पुत्र/पुत्री श्री (पिता का नाम) नीचे लिखे कारणों से शारीरिक रूप से
विकलांग हैं।

(केवल मुख्य चिकित्सा अधिकारी ही कारण लिखें).....

2. अभ्यर्थी की उपरोक्त विकलांगता को निम्न प्रकार की विकलांगता की श्रेणी में रखा जा सकता है।
(कृपया ✓ का निशान लगायें)

Type - I: Minimum 40% permanent Visual impairment	
Type-II: Minimum 40% permanent Locomoter disability	
Type-III: Minimum 40% permanent Speech Hearing impairment	

3- यह भी प्रमाणित किया जाता है कि उपरोक्त विकलांग स्थिति अभ्यर्थी के इन्जीनियरिंग शिक्षा प्राप्त करने में बाधक नहीं होगी।

अभ्यर्थी के हस्ताक्षर
नाम
दिनांक

चिकित्साधिकारी के हस्ताक्षर
नाम
मुहर

CERTIFICATE – 7 (प्रमाण पत्र-7)

उत्तर प्रदेश ग्रामीण क्षेत्र के लिये अधिमान (UPGE)
(कालेज के प्रधानाचार्य द्वारा प्रमाणित)

यह प्रमाणित किया जाता है कि श्री/कु0(अभ्यर्थी) ने
..... कालेज गाँव से इण्टरमीडिएट की शिक्षा
प्राप्त की। यह कालेज तहसील जिला उत्तर प्रदेश
के ग्रामीण क्षेत्र में स्थित है तथा ग्राम पंचायत के कार्य क्षेत्र के सीमा के अन्दर है और यह क्षेत्र
औद्योगिक विकसित क्षेत्र नहीं है।

दिनांक

हस्ताक्षर

स्थान

नाम

मुहर

(जिला विद्यालय निरीक्षक एवं जिला मजिस्ट्रेट द्वारा प्रमाणित)

प्रधानाचार्य द्वारा दिया गया कालेज की स्थिति से संबंध उपरोक्त वक्तव्य प्रमाणित किया जाता है।

दिनांक

हस्ताक्षर जिला विद्यालय निरीक्षक

स्थान

नाम

मुहर

दिनांक

प्रति हस्ताक्षरित जिला/अपर/उप जिला मजिस्ट्रेट

स्थान

नाम

मुहर

CERTIFICATE – 8 (प्रमाण पत्र-8)

CHARACTER CERTIFICATE FROM THE HEAD OF
THE INSTITUTION LAST ATTESTED

This is to certify that Sri / Km. _____
has been a bonafide student of _____
from _____ to _____ and
has passes / appeared at the _____
examination in the year _____

Proctorial reports:

1. Has he / she involved himself / herself if any act of indiscipline? Yes / No
2. Has he / she been warned, Fined or punished for any act of indiscipline? Yes / No
3. Has he / she been restricted or expelled from Hostel of College for any reason? Yes/ No
4. Has he / she been involved in any act of indisiple outside the College campus like
group clashes or fraction fights etc. Yes/ No
5. Has he / she been addicted to drugs or intoxicants? Yes/ No

General remarks (Please state your assessment of the student)

Date :

Signature _____

Name _____

Designation _____

CERTIFICATE – 9 (प्रमाण पत्र-9)

* FORMAT FOR MEDICAL CERTIFICATE

(To be obtained from a Chief Medical Officer or Medical Officer of a participating U.P. State Funded Engg. Institute)

This certificate has to be submitted at the time of admission in the college allotted.

Name of Candidate:		Age:	Sex:
UPSEE-2019 Roll No.:		Category:	Subcategory & Weightage:
State Rank Position:		Father's Name: (To be filled in by the Candidate)	
L.T. Height	M.I. Weight	Chest	Abdomen
		VISION	Colour Vision: Without glass: With glass:
History		Operation	Kockh's
		Seizures	Asthma
		Colics	B.P.
		Piles	Diabetes
EXAMINATION	Pulse		Tonsil
	Pallor		L.Nodes
	Cardiovascular		DNS
	Respiratory		CSOM
Genitourinary		CNS	Hernia
		GIT	Hydrocele
		Others	
Is the candidate physically handicapped/Disabled:		<input type="checkbox"/> (Please tick) Yes / No	
If yes, type of handicap/disability:		Type -I: Minimum 40% permanent Visual impairment	
(Please tick ✓ the type of handicap/disability)		Type-II: Minimum 40% permanent Locomoter disability	
		Type-III: Minimum 40% permanent speech and Hearing impairment	
Any other finding:			
Certified that the candidate is physically fit/unfit/temporally disqualified to pursue engineering studies			
Signature of Candidate		Signature of the issuing Medical Officer (with Official stamp)	

CERTIFICATE – 10 (प्रमाण पत्र-10)

UNDERTAKING BY CANDIDATE FOR MEDICAL FITNESS

I certify that I have no such physical handicap/disability which would hinder the pursuit of studies in the courses in which I am seeking admission. If at stage it is found that I have a physical handicap/ disability which would hinder the pursuit of studies in the courses in which I am seeking admission then my admission will be liable to be cancelled. I will produce medical fitness certificate from a C.M.O./C.M.S. at the time of my joining the institution allotted by UPSEE-2019 counselling.

Dated:

Counter Signed by Father / Guardian

Signature of the Candidate

CERTIFICATE – 11 (प्रमाण पत्र-11)

अखिल भारतीय सेवा के उ0प्र0 कैंडर के अधिकारियों/कर्मचारियों हेतु

प्रमाणित किया जाता है कि श्री/श्रीमती (अभ्यर्थी के माता/पिता का नाम)
.....पदनामविभाग का नाम कैंडर संख्या
.....अखिल भारतीय सेवा के उ0प्र0 कैंडर के अधिकारी/कर्मचारी है तथा वर्तमान में इस
कार्यालय में कार्यरत हैं। यह प्रमाण पत्र इनके पुत्र/पुत्री (अभ्यर्थी का नाम)
.....कोडा0 ए0पी0जे0 अब्दुल कलाम प्राविधिक विश्वविद्यालय उत्तर प्रदेश, लखनऊ के अन्तर्गत
प्रवेश हेतु प्रदान किया जाता है।

दिनांक:

हस्ताक्षर

विभागाध्यक्ष/कार्यालयाध्यक्ष का

नाम एवं पदनाम
मुहर

CERTIFICATE-12 (प्रमाण पत्र-12) (Income Certificate)

क्षेत्रीय भूलेख निरीक्षक तथा लेखपाल की जांच रिपोर्ट के आधार पर प्रमाणित किया जाता है कि
----- (आवेदक के अभिभावक/माता/पिता का नाम) सुपुत्र
----- निवासी/ग्राम ----- परगना
----- तहसील ----- नगर ----- जिला
----- राज्य ----- के स्वयं की मासिक आय रूपया
----- तथा वार्षिक आय रूपया ----- है।
लेखपाल की रिपोर्ट के अनुसार आय का स्रोत ----- है।

स्थान:

दिनांक:

तहसीलदार
मुहर

नोट- अभ्यर्थी ध्यान दें कि उ0प्र0 के आर्थिक रूप से कमजोर अभ्यर्थियों के लिए प्रमाण पत्र अप्रैल
01, 2019 के पश्चात का बना हुआ होना आवश्यक है।

Appendix - E

The UPSEE-2019 will be held at various cities as given in the following tables. The candidates are advised to give three choices of examination cities.

The UPSEE-2019 will be held at various cities as given in the following tables. The candidates are advised to give three choices of examination cities.

All Papers are OMR based Tests and shall be held in various cities given in the Examination City Table

Examination City (OMR Based Test)

Cities in State of U.P.			
Agra	Firozabad	Mathura	Aligarh
Allahabad	Azamgarh	Ballia	Mau
Bareilly	Shahjanpur	Basti	Banda
Gonda	Ambedkar Nagar	Barabanki	Faizabad
Sultanpur	Deoria	Gorakhpur	Kushinagar
Jalaun (Orai)	Jhansi	Etawah	Kanpur Nagar
Kanpur Dehat	Lakhimpur Kheri	Lucknow	Raebareili
Sitapur	Bulandshahr	Noida	Greater Noida
Ghaziabad	Meerut	Mirzapur	Bijnaur
Moradabad	Muzaffarnagar	Saharanpur	Ghazipur
Jaunpur		Varanasi	
Cities outside U.P.			
Bhopal	Dehradun	Delhi	Delhi
Patna	Ranchi	Jaipur	Kolkata
Mumbai	Rohtak	Jammu	Gauhati
Roorkee	Chandigarh	Chennai	Banglore
Hyderabad			

- Candidates are advised to be very careful while giving their options for city of examination centre. Candidates are advised to choose cities of examination on the basis of the paper he/she has opted from the respective table i.e. Examination City Table-I.
- If any candidate chooses cities of examination where the examination for the paper opted is not being conducted, he/she shall be allotted an examination city from the respective list and same shall be binding upon the candidate.
- Certain examination cities may be cancelled if sufficient number of candidates does not opt for that city. Request for change of city of examination shall not be entertained under any circumstances.

Appendix-F

अनुसूचित जाति, अनुसूचित जनजाति एवं क्षेत्रीय जातियों का नाम

The list of SC/ST/OBC categories shall be as notified by the Government of Uttar Pradesh as applicable on the day of counseling / admission.

The benefit of reserved categories/sub categories/rural weightage shall be admissible only upon submission of the required certificate in the format as given in Appendix-D.

IMPORTANT DATES

Opening of the link for Filling and Submission of On-Line Application Form form through the website http://www.upsee.nic.in	January 23, 2019 (2:00 PM)
Last Date for Filling and submitting the On-Line Application Form	March 15, 2019 (5.00 PM)
On-Line Partial Correction of filled and submitted On Line Application form through the website http://www.upsee.nic.in	Upto April 03, 2019 (5:00PM)
Opening of Link for Downloading of the Admit Card from the website http://www.upsee.nic.in	From April 15th 2019, 11.00 AM till date of examination
Dates of Examination (as applicable)	April 21,2019
Declaration of UPSEE-2019 Result	In the Last week of May 2019
Note: The Application Form can be filled On-Line only through the website http://www.upsee.nic.in The Confirmation page printed after submission of On-Line Application Form need to be preserved by the candidates. Print-out/ hard copy/ photocopy of Confirmation page or any other document need not be sent to the University. The Admit Card shall be available to the candidates only through the website http://www.upsee.nic.in	

SCHEDULE OF EXAMINATION

Date of Examination	Paper Code	Subjects	Timing (Total Time Period)
21 st April 2019 (Sunday)	Paper 1	Physics, Chemistry and Mathematics	11:30 AM to 14:30 PM (3 Hours)
	Paper 2	Physics, Chemistry and Biology	11:30 AM to 14:30 PM (3 Hours)
	Paper 3	Aptitude Test for Architecture & Design	3.00 PM to 5:30 PM (2 Hours 30 Minutes)
	Paper 4	Aptitude test for General Awareness	9:00 AM to 11:00 AM (2 Hours)
	Paper 5	Aptitude Test for Lateral Entry in Engg	9:00 AM to 11:00 AM (2 Hours)
	Paper 6	Aptitude Test for MBA/ MCA	3.00 PM to 5:30 PM (2 Hours 30 Minutes)
	Paper 7	Aptitude Test for Diploma Holders in Pharmacy	9:00 AM to 11:00 AM (2 Hours)
	Paper 8	Aptitude Test for Lateral Entry in Engg (Diploma Holders).	9:00 AM to 11:00 AM (2 Hours)