

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

**Academic Session 2021-22**



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

## IMPORTANT INSTRUCTIONS

1. Candidate may fill application form on-line through website <https://aktu.ac.in/>
2. This Examination is open only to the candidates who have passed the qualifying examination subject to the eligibility conditions given in this Information Brochure.
3. The submission of on-line application form through website can be made from **25<sup>th</sup> June 2021 to 15<sup>th</sup> July 2021.**
4. Candidates are advised to read carefully this information brochure, check their eligibility and applicable reservation category etc. before filling and submitting the application.
5. There is no age limit for candidates seeking to appear in this examination.
6. Accepting admission in any institution implies acceptance by the candidate and his/her parents or guardians agrees with all the provisions given in the Brochure. Any change in the rules, regulations, fee and special conditions etc. of that institution shall apply to the admitted candidate.
7. Candidates who are due to appear for the qualifying examination or have appeared, but results are awaited, are also eligible to appear in the examination. However, the candidates in respect of whom, the result of the qualifying examination has not been declared till the date of the counselling due to any reason whatsoever, shall not be eligible for admission under any circumstances.
8. The result of this entrance examination to PG Programs (M. Tech/ M. Pharm/ M.Arch./MURP/ M. Des) 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.) 226031 in writing.
9. 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.
10. The candidate must himself/ herself ensure about his/her eligibility to appear in the 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 of the programme.
11. The allotment of seat through counselling/interview will be carried out strictly on the basis of 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.
12. The fee paid at the time of counselling by the candidate after the allotment of seat will be forfeited and will not be refunded under any circumstances, if the candidate does not report for the admission to the allotted institutions.
13. All information in connection with the Examination shall be made through university website <https://aktu.ac.in/> Candidates are advised to refer to this website regularly/frequently, failing which AKTU, Lucknow will not be responsible for any loss due to the lack of communication.
14. 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.
15. 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
  - MURP** - Master of Urban & Regional Planning
  - M.Des.** - Master of Design

## 1. PREAMBLE

As per the decision of the Central Admission Board (CAB) of AKTU under the Chairmanship of the Vice Chancellor, the entrance examination for admission to P.G. programs, M. Tech./ M. Pharm./ M. Arch./MURP/ M.Des. (hereinafter in this brochure referred as P.G. program) offered by the various institutes affiliated to Dr. A.P.J. Abdul Kalam Technical University, U.P., Lucknow shall be conducted by AKTU, this exam hereinafter in this brochure shall be referred as AKTU PG Entrance Exam-2021 or **APEE-2021**. The Central Admission Board (CAB) constituted under the Chairmanship of the Vice Chancellor, Dr A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow has to supervise and control the APEE-2021, and has absolute rights for conducting of APEE-2021, and to decide about modalities of admissions and allotment of seats. The CAB is authorized to take every decision regarding conduct and admissions through APEE-2021.

## 2. MODE OF ADMISSION

As per the decision of CAB of AKTU the admissions process of Post Graduate program (M.Tech./M.Pharm./M.Arch./MURP/M.Des.), will be as follows:

### **Admission to P.G. ( M.Tech./ M.Pharm./ M.Arch./ MURP/ M.Des.) Programs**

There shall be an entrance test for admissions to P.G. (M.Tech./M.Pharm./M.Arch./MURP/M.Des.) programs offered by the various affiliated institutes of the University for the session 2021-22. The domain knowledge test for such admissions will be of GATE/GPAT/CEED level. The candidates seeking admissions to above programme shall have to appear in a multiple-choice objective nature written test.

The domain knowledge test shall be conducted subject wise on the various areas as given in Table-2 for P.G. (M.Tech./M.Pharm./M.Arch./MURP/M.Des) admission.

- i. All candidates seeking admission to PG Programme (M.Tech./M.Pharm./M.Arch./MURP/M.Des.) must appear necessarily in 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 final admission of the candidates shall be done on the basis of counselling as per the merit of the written test. However, such candidates who are **GATE/GPAT/CEED** qualified and have the valid score card, **need not to appear in the written test**. They can directly appear in the counselling process for admission. Counselling schedule will be intimated later through the University website.
- iii. The candidates with valid **GATE/GPAT/CEED** score shall be admitted on **preferential basis** over the candidates through APEE-2021.

### **Important note-**

- (a) Incomplete application form in any respect will be liable to be rejected and the fees

submitted will not be refundable.

### 3. SUBJECTS AND ELIGIBILITY CRITERIA

#### 3.1 Admission to P.G. Programs

The candidate must ensure 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./MURP/M.Des) are listed in Table 1.

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

S.No.	Courses /Specializations*	Eligibility*
<b>A</b>	<b>M.Tech</b>	
1	Bio-Technology (BT)	B.E/B. Tech (60% or equivalent CGPA) in Bio-Tech/Bio Engg/Bioinformatics/Chemical Engg./Chemical Technology
2	Civil Engg (CE)	B.E/B. Tech (60% or equivalent CGPA) in. Civil Engg
3	Geo Technical & Geo Environmental Engg.	B.E/B. Tech (60% or equivalent CGPA) in. Civil Engg
4	Structural Engg.(STR)	B.E/B. Tech (60% or equivalent CGPA) in. Civil Engg
5	Construction Technology & Management (CTM)	B.E/B. Tech (60% or equivalent CGPA) in. Civil Engg
6	Environmental Engineering (EV)/	B.E/B. Tech (60% or equivalent CGPA) in. Environmental Engg/Civil Engg/Mechanical/BioTech/ Chemical Engg or M.Sc. (60% or equivalent CGPA) in Environmental science/Biotechnology/ Biochemistry/ Chemistry
7	Environmentation Technology (EV)	B.E/B. Tech (60% or equivalent CGPA) in. Environmental Engg/Civil Engg/Mechanical/BioTech/ Chemical Engg or M.Sc. (60% or equivalent CGPA) in Environmental science/Biotechnology/ Biochemistry/ Chemistry
8	Food Technology (FT)	B.E/B.Tech (60% or equivalent CGPA) in Chemical Technology/Food Technology/BioTech/Bioinformatics /Biochemical/Environmental Engineering or M.Sc. (60% or equivalent CGPA) in Chemistry/ Bio Technology/Bioinformatics/Microbiology/ Bio Chemistry/Botany/Zoology
9	Computer Science & Engineering (CSE)	B.E/B.Tech (60% or equivalent CGPA) in Computer Science/ Information Technology/CSE/CS & IT/MCA
10	Electronics & Comm. Engineering (ECE)	B.E/B.Tech (60% or equivalent CGPA) in Electronics & Comm. Engg/Electronics Engg/Instrumentation and Control Engineering./ Electrical& Electronics Eng/ Electronics & Instrument/ Instrumentation & Control Engineering.
11	Digital Communication (DC)	B.E/B.Tech (60% 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 (60% 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 (60% or equivalent CGPA) in Electronics & Comm. Engg/Electronics Engg/Instrumentation and Control Engineering./ Electrical& Electronics Eng/ Electronics & Instrument/

		Instrumentation & Control Engineering.
14	VLSI Design (VLSI)	B.E/B.Tech (60% or equivalent CGPA) in Electronics & Comm. Engg/ Electronics Engg / Electrical & Electronics Eng/ Electronics & Instrumentation Engineering
15	Bio Medical Engineering (BM)	B.E/B.Tech (60% or equivalent CGPA) in Electronics & Comm. Engg/Electronics Engg/Instrumentation and Control Engineering./ Electrical& Electronics Eng/ Electronics & Instrument/ Instrumentation & Control Engineering.
16	Electrical Engineering (EE)	B.E/B.Tech (60% or equivalent CGPA) in Electrical Engg./ Electrical & Electronics Engg
17	Power & Control/ Power & Energy Systems/ Electric Drive & Control	B.E/B.Tech (60% or equivalent CGPA) in Electrical Engg./ Electrical & Electronics Engg
18	Power Electronics & Drives (PED)	B.E/B.Tech (60% or equivalent CGPA) in Electrical Engg. / Electrical & Electronics Engg
19	Power Systems (PS)	B.E/B.Tech (60% or equivalent CGPA) in Electrical Engg./ Electrical & Electronics Engg
20	Mechanical Engineering (ME)	B.E/B.Tech (60% or equivalent CGPA) in Mechanical/ Production /Manufacturing/Industrial/Aeronautical / Automobile Eng./Manufacturing Technology
21	Thermal Engineering (TE)	B.E/B.Tech (60% or equivalent CGPA) in Mechanical/Aeronautical Engg/Automobile Engineering
22	Computer Aided Design & Manufacturing (CAD/ CAM)	B.E/B.Tech (60% or Equivalent CGPA) in Manufacturing Engg/Mechanical/Production//Industrial/Aeronautical/ Automobile Engineering/Industrial Production Engineering
23	Production Engineering (PE)	B.E/B.Tech (60% or Equivalent CGPA) in Mechanical/ Production /Manufacturing /Industrial/ Aeronautical Eng/ Automobile Engineering/Industrial Production Engineering
24	Remote Sensing & GIS (RS&GIS)	B.E/B.Tech (60% or Equivalent CGPA) in Civil/Environment/Computer Science & Engg/Information Tech/Electrical Eng/Agriculture or M.Sc. (60% or Equivalent CGPA) in Geography/Geology/Geoinformatics/ Geometrics/Environmental Sciences/Earth Sciences/Forestry/Agriculture /Soil Sciences/Botany/Water resources
25	Plastic Engineering (PL)	B.E/B.Tech (60% or Equivalent CGPA) in Plastic Engg/Chemical Engg/Chemical Technology/Mechanical Engg/Manufacturing Engg/Production/Industrial/Manufacturing Tech. or M.Sc. (60% or Equivalent CGPA) in Chemistry/Industrial Chemistry/Polymer Chemistry
26	Automation & Robotics Engineering (AR)	B.Tech (60% or Equivalent CGPA) in ME/EN/EC/CSE/EI/ Manufacturing Engg/Production/Industrial Production Engineering
27	Electrical & Electronics Engineering (EN)	B.Tech (60% or Equivalent CGPA) in EE/EN/EC/EI
28	Energy Science & Technology (EST)	BE/BTech (60% or Equivalent CGPA) in Chemical Engineering /Chemical Technology /Mechanical Engineering / Energy engineering /Petroleum/Petrochemical Engineering/ Automobile Engineering
29	Textile Technology (TT)	BE/BTech (60% or Equivalent CGPA) in Textile Technology/Textile Chemistry/ Textile Engineering/Man-made fibre technology/Carpet Engineering/Carpet & Textile Technology/Technical Textile/Jute & Fibre Technology
30	Computer Science & Technology in Cyber Security/ICT	B.E/B.Tech (60% or equivalent CGPA) in Computer Science/ Information Technology/CSE/Computer Engg/CS & IT/MCA
31	Mechatronics (MT)	B.E/B.Tech (60% or equivalent CGPA) in ME/Automobile/Manufacturing/ Production/Electrical and Electronics /ECE/EE/EI/IC/CSE/IT/Mechatronics/Instrumentation

		Engg.
32	Nanotechnology (NT)	B.E./B.Tech (60% or equivalent CGPA) in ECE/EN/ME/EE/ Instrumentation Engg/Chemical Engg/Metallurgical Engg/EI/ Nanotechnology/ Petroleum Engg/Textile Engg & Fiber Science/ Engineering Science or M.Sc. (60% or equivalent CGPA) in Physics /Physics (EC)/Material Science/Solid State Physics/ Nanotechnology/Nanoscience/Chemistry
33	Manufacturing Science & Technology	B.E./B.Tech (60% or equivalent CGPA) in Mechanical/ Production /Manufacturing/Industrial/Aeronautical / Automobile Eng./ Manufacturing Technology
34	Textile Chemistry	BE/B.Tech (60% or Equivalent CGPA) in Textile Technology/Textile Chemistry/ Textile Engineering/Man made fibre technology/Carpet Engineering/Carpet & Textile Technology/Technical Textile/Jute & Fibre Technology
<b>B</b>	<b>M. Pharm</b>	
	(All offered branches)	B. Pharm. (60% or Equivalent CGPA)
<b>C</b>	<b>M. Arch/MURP</b>	
	(Master of Architecture, Environmental Design, Master of urban and regional planning, and all other offered branches)	B. Arch. (60% or Equivalent CGPA)
<b>D</b>	<b>M. Des.</b>	
	Master of Design (MD)	B.E./B.Tech.in any branch of Engineering/B.Des./B.Arch. / BFA/BFAD with 60% marks or equivalent

\*In case of CGPA the equivalent percentage will be considered as per norms defined by corresponding university/institute of qualifying degree.

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

\* Specialization may change subject to the decision of Academic Council of the University

### 3.2 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 APEE-2021	Paper Code
1	B.Arch	B.Arch	Architecture	AR
2	B.E/B.Tech	Bio-Tech	Bio Technology	BT
3	B.E/B.Tech	Bio Engineering	Bio Technology	BT
4	B.E/B.Tech	Bioinformatics	Bio Technology	BT
5	B.E/B.Tech	Bio Chemical Engineering	Bio Technology	BT
6	B.E/B.Tech	Chemical Engineering	Chemical Engineering	CHE
7	B.E/B.Tech	Chemical Technology	Chemical Engineering	CHE
8	B.E/B.Tech	Civil Engineering	Civil Engineering	CE
9	B.E/B.Tech	Computer Science & Engineering	Computer Science & Information Technology	CSIT
10	B.E/B.Tech	Information Technology	Computer Science & Information Technology	CSIT

11	MCA	MCA	Computer Science & Information Technology	CSIT
12	B.Des	Bachelor of Design	Design	DES
13	BFA	BFA	Design	DES
14	BFAD	BFAD	Design	DES
15	BE/B.Tech	Any Discipline	Design	DES
16	B.E/B.Tech	Electrical & Electronics Engineering	Electrical Engineering	EE
17	B.E/B.Tech	Electrical Engineering	Electrical Engineering	EE
18	B.E/B.Tech	Electronics & Comm. Engineering	Electronics & Communication	EC
19	B.E/B.Tech	Electronics Engineering	Electronics & Communication	EC
20	B.E/B.Tech	Instrumentation & Control Engineering	Electronics & Communication	EC
21	B.E/B.Tech	Electronics & Instrumentation Engineering	Electronics & Communication	EC
22	B.E/B.Tech	Biomedical Engineering	Electronics & Communication	EC
23	B.E/B.Tech	Environmental Engineering	Engineering Sciences	ES
24	B.E/B.Tech	Food Technology	Engineering Sciences	ES
25	B.E/B.Tech	Agriculture	Engineering Sciences	ES
26	B.E/B.Tech	Plastic Engineering	Engineering Sciences	ES
27	B.E/B.Tech	Energy Engineering	Engineering Sciences	ES
28	B.E/B.Tech	Petroleum Engineering	Engineering Sciences	ES
29	B.E/B.Tech	Petrochemical Engineering	Engineering Sciences	ES
30	B.E/B.Tech	Mechatronics	Engineering Sciences	ES
31	B.E/B.Tech	Metallurgical Engineering	Engineering Sciences	ES
32	B.E/B.Tech	Nanotechnology	Engineering Sciences	ES
33	B.E/B.Tech	Engineering Science	Engineering Sciences	ES
34	M.Sc.	Environmental science	Life Sciences	LS
35	M.Sc.	Bio-Tech	Life Sciences	LS
36	M.Sc.	Bio Chemistry	Life Sciences	LS
37	M.Sc.	Chemistry	Life Sciences	LS
38	M.Sc.	Bioinformatics	Life Sciences	LS
39	M.Sc.	Microbiology	Life Sciences	LS
40	M.Sc.	Botany	Life Sciences	LS
41	M.Sc.	Zoology	Life Sciences	LS
42	M.Sc.	Geography	Life Sciences	LS
43	M.Sc.	Geology	Life Sciences	LS
44	M.Sc.	Geoinformatics	Life Sciences	LS

45	M.Sc.	Geomatics	Life Sciences	LS
46	M.Sc.	Earth Sciences	Life Sciences	LS
47	M.Sc.	Forestry	Life Sciences	LS
48	M.Sc.	Agriculture	Life Sciences	LS
49	M.Sc.	Soil Sciences	Life Sciences	LS
50	M.Sc.	Water resources	Life Sciences	LS
51	M.Sc.	Physics	Life Sciences	LS
52	M.Sc.	Material Science	Life Sciences	LS
53	M.Sc.	Solid State Physics	Life Sciences	LS
54	M.Sc.	Nanotechnology	Life Sciences	LS
55	M.Sc.	Nanoscience	Life Sciences	LS
56	B.E/B.Tech	Mechanical Engineering	Mechanical Engineering	ME
57	B.E/B.Tech	Production Engineering	Mechanical Engineering	ME
58	B.E/B.Tech	Manufacturing Engineering	Mechanical Engineering	ME
59	B.E/B.Tech	Industrial Engineering	Mechanical Engineering	ME
60	B.E/B.Tech	Aeronautical Engineering	Mechanical Engineering	ME
61	B.E/B.Tech	Automobile Engineering	Mechanical Engineering	ME
62	B.E/B.Tech	Manufacturing Technology	Mechanical Engineering	ME
63	B.E/B.Tech	Industrial Production Engineering	Mechanical Engineering	ME
64	B.Pharma	B.Pharma	Pharmacy	PH
65	B.E/B.Tech	Textile Technology	Textile Engineering & Fibre Science	TE
66	B.E/B.Tech	Textile Chemistry	Textile Engineering & Fibre Science	TE
67	B.E/B.Tech	Textile Engineering	Textile Engineering & Fibre Science	TE
68	B.E/B.Tech	Man made fibre technology	Textile Engineering & Fibre Science	TE
69	B.E/B.Tech	Carpet Engineering	Textile Engineering & Fibre Science	TE
70	B.E/B.Tech	Textile Engineering & Fibre Science	Textile Engineering & Fibre Science	TE
71	B.E/B.Tech	Carpet & Textile Technology	Textile Engineering & Fibre Science	TE
72	B.E/B.Tech	Technical Textile	Textile Engineering & Fibre Science	TE
73	B.E/B.Tech	Jute & Fibre Technology	Textile Engineering & Fibre Science	TE

### 3.3 Reservation Policy

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

### 3.4 Examination Fee



As per the decision of CAB, AKTU 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 APEE-2021. 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 July 21, 2021. Thereafter, it is not possible to change the appearing paper of APEE-2021.

#### 4.0 EXAMINATION DETAILS

The multiple choice type examination for admission to P.G. (M.Tech./M. Pharm./M. Arch./MURP/M.Des) shall be conducted through online mode (details will be published on the university at the time of admit-card download).

#### 4.1 Examination pattern

The paper will be of **two-hour** duration with **100** multiple choice questions to be answered by the candidate. 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 APEE-2021.

**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 Questions) Mathematics (15 Questions)
		Part B	Subject domain questions (70 Questions)
	Engineering Science (ES)	Part A	Aptitude (15 Questions) Mathematics (15 Questions)
		Part B (Any <b>TWO</b> optional sections)	ES_1- Fluid Mechanics (35 Questions) ES_2 -Material Science (35 Questions) ES_3 -Solid Mechanics (35 Questions) ES_4-Thermodynamics (35 Questions) ES_5-Food Technology (35 Questions)
	Life Science (LS)	Part A	Aptitude (15 Questions) Chemistry (15 Questions)
		Part B	LS_1 -Biochemistry (35 Questions)

		(Any <b>TWO</b> optional sections)	LS_2 Botany (35 Questions) LS_3-Microbiology (35 Questions) LS_4-Zoology (35 Questions) LS_5-Food Technology (35 Questions)
M. Pharm	Paper will of GPAT pattern (100 questions)		
M. Arch/ MURP	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.**

#### 4.2 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.
- Negative Marking**—there will be **No Negative Marking** in the evaluation of above pattern of examination
- 4 marks will be awarded for each correct answer.

**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 (on the Basis of age) and application number.

#### 4.3 Merit List

All the candidates appearing in APEE-2021 for M. Tech/ M. Pharm/ M. Arch/ MURP/ M. Des will be given the rank based on the merit.

#### 4.4 Schedule of Examination

The examination will be conducted on 8<sup>th</sup> August, 2021 as per the following schedule.

**Table 4: Schedule and time duration of the examinations**

Date of Examination	Paper	Subjects	Timing (Total Time Period)
8 <sup>th</sup> August, 2021 (Sunday)	Paper for M. Tech/ M. Pharm/ M. Arch/ MURP/ M. Des	All papers mentioned in Table 2, Column 4	9:00 AM to 11:00 AM (2 Hours)

## 5.0 CATEGORY DEFINITIONS

Refer to the Information Brochure APEE-2021 given at <https://aktu.ac.in>

## 6.0 ADMIT CARD

- 5.1 Admit card will be available online on the website <http://www.aktu.ac.in> to every candidate from 25 July 2021 to 31 July 2021. **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, 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.aktu.ac.in> or send an email to the mail address [apee.helpdesk@aktu.ac.in](mailto:apee.helpdesk@aktu.ac.in) latest by 31 July, 2021.
- 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. APEE-2021 may withdraw the permission to appear in APEE-2021 granted by mistake to a candidate who is not eligible to appear at the APEE-2021 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.aktu.ac.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.

## 5. MEDIUM AND MODE OF EXAMINATION & EVALUATION

All question papers will carry objective multiple-choice questions. Answers of the papers will be evaluated in online mode. All question papers will be in English.

## 6. COUNSELLING

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

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## 7. 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 only through 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 Net-banking.

## **8. TUITION FEES**

8.1 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.

8.2 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

## **9. LAST DATE OF SUBMISSION OF ON-LINE APPLICATION FORM**

Application Form for APEE-2021 can be submitted On-Line only through website <http://www.aktu.ac.in> from 25<sup>th</sup> June 2021, 05:00 PM. The Last Date of filling and submitting the On-Line Application Form is 15<sup>th</sup> July 2021.

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

Refer to the Information Brochure APEE-2021 given at <http://www.aktu.ac.in>

## 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

### Subject Domain

Sl. No	Paper	Syllabus
1	Bio Technology (BT)	GATE syllabus- <b>Section 2 to Section 5</b> - Bio Technology <a href="https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view">https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view</a>
2	Chemical Engineering (CHE)	GATE syllabus <b>Section 2 to Section 9</b> of Chemical Engineering <a href="https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view">https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view</a>
3	Civil Engineering (CE)	GATE syllabus <b>Section 2 to Section 7</b> of Civil Engineering <a href="https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view">https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view</a>
4	Computer Science & Information Technology (CSIT)	GATE syllabus <b>Section 2 to Section 10</b> of Computer Sc & Information Technology <a href="https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view">https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view</a>
5	Electronics & Communication (EC)	GATE syllabus <b>Section 2 to Section 8</b> of Electronics & Communication Engg. <a href="https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view">https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view</a>
6	Electrical Engineering (EE)	GATE syllabus <b>Section 2 to Section 10</b> of Electrical Engineering. <a href="https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view">https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view</a>
7	Textile Engineering & Fibre Science (TE)	GATE syllabus <b>Section 1 to Section 5.0</b> of Textile Engg. & Fibre Science <a href="https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view">https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view</a>
8	Mechanical Engineering (ME)	GATE syllabus <b>Section 2 to Section 4</b> of Mechanical Engineering. <a href="https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view">https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view</a>

9	ES_1: Fluid mechanics	GATE syllabus of Fluid Mechanics given at <a href="https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view">https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view</a>
10	ES_2: Materials Science	GATE syllabus of Materials Science given at <a href="https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view">https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view</a>
11	ES_3: Solid Mechanics:	GATE syllabus of Solid Mechanics given at <a href="https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view">https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view</a>
12	ES_4: Thermodynamics:	GATE syllabus of Thermodynamics given at <a href="https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view">https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view</a>
13	ES_5: Food Technology	GATE syllabus of Food Technology given at <a href="https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view">https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view</a>
14	Chemistry	GATE syllabus of <b>XL-P Chemistry</b> given at <a href="https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view">https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view</a>
15	LS_1: Bio Chemistry	GATE syllabus of Biochemistry given at <a href="https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view">https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view</a>
16	LS_2: Botany	GATE syllabus of Botany given at <a href="https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view">https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view</a>
17	LS_3: Microbiology	GATE syllabus of Microbiology given at <a href="https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view">https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view</a>
18	LS_4: Zoology	GATE syllabus of Zoology given at <a href="https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view">https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view</a>
19	<b>M. Pharm</b>	GPAT syllabus given at <a href="https://ntagpat.nic.in">https://ntagpat.nic.in</a> and available at <a href="https://gpat.nta.nic.in/WebInfo/File/GetFile?FileId=6&amp;LangId=P">https://gpat.nta.nic.in/WebInfo/File/GetFile?FileId=6&amp;LangId=P</a>
20	<b>M. Arch / MURP</b>	GATE syllabus given for Architecture & planning at <a href="https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view">https://drive.google.com/file/d/1-XqQ2FP5kh1vp-aQ3FhAvTqjFGp5H-IN/view</a>
21	<b>M. Des</b>	CEED syllabus given (page no.-12) <a href="http://www.ceed.iitb.ac.in/2021/downloads/CEED2021_Brochure.pdf#view=FitV">http://www.ceed.iitb.ac.in/2021/downloads/CEED2021_Brochure.pdf#view=FitV</a>