

Engineering Courses to Bachelor of Engineering and Technology Courses (Regulation of Admission and Payment of Fees) Rules, 2013

GUJARAT

India

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Rule

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Engineering Courses to Bachelor of Engineering and Technology Courses (Regulation of Admission and Payment of Fees) Rules, 2013Published vide Notification No.

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GH/SH/35/2013/PVS/102013/405/S. - In exercise of the powers conferred by sub-section (1) of section 20 read with section 4 of the Gujarat Professional Technical Educational Colleges or Institutions (Regulations of Admission and Fixation of Fees) Act, 2007 (Guj. 2 of 2008) and in supersession of all the rules made in this behalf, the Government of Gujarat, hereby makes the following rules to regulate admission from Diploma In Engineering Courses to Second Year (Third Semester) of Bachelor of Engineering and Technology Courses and Payment of Fees as follows, namely:-

1. Short Title and Commencement.

(1)These rules may be called the Diploma in Engineering Courses to Bachelor of Engineering and Technology Courses (Regulation of Admission and Payment of Fees) Rules, 2013.(2)They shall come into force from the date of their publication in the Official Gazette.

2. Definitions.

(1) In these rules, unless the context otherwise requires, - (a) "Act" means the Gujarat Professional Technical Educational Colleges or Institutions (Regulation of Admission and Fixation of Fees) Act, 2007 (Guj. 2 of 2008); (b) "Admission" means admission of candidates of Diploma in Engineering Courses to Second Year (Third Semester) of Bachelor of Engineering Courses; (c) "Admission Committee" means the "Admission Committee for Professional Courses" constituted by the State Government under section 4 of the Act, under Government Notification, Education Department No.GH/SH/7/2008/PVS102003-639-S, dated the 5th May, 2008; (d) "Bachelor of Engineering Courses" means and includes the Bachelor of Engineering and Technology Courses, in the Professional Educational Colleges or Institutions of the State; (e) Multi-Point Entry and Credit System (MPEC system) is a system under which a candidate is eligible for admission in the Diploma Course if he has, either, - (i) passed the Secondary School Certificate Examination (Standard 10th); or (ii) passed the Higher Secondary School Certificate Examination (Standard XII, 10+2 pattern); or (iii) appeared in the Higher Secondary School Certificate Examination (Standard XII, 10+2 pattern); or (iv) passed the two years certificate course conducted by the Technical Examination Board (TEB) (herein after called as "Certificate Holder"); (f) "Non-Multi Point Entry and Credit System (Non-MPEC system)" means a system which makes a candidate eligible for admission in the Diploma Course who has passed the Secondary School Certificate Examination (Standard 10th); (g) "Help Centers" means the Centre notified by the Admission Committee for facilitation of the candidate for off campus online admission process; (h) "Qualifying Examination" means an examination of Diploma in Engineering Courses shown in column 2 of Schedule I, or an equivalent examination in Diploma Engineering Courses; (i) "Schedule" means the Schedule appended to these rules; (j) "Semester Theory Performance Index (STPI)" means performance index based only on the marks obtained in theory subjects in qualifying examination conducted and evaluated by respective University; (k) "Technical Examination Board (TEB)" means the Technical Examination Board, Gujarat State established by the State Government under Government Resolution, Education and Labour Department No.ECT-1064/91813-GH, dated the 11th July, 1966; (l) "Website" means the official website of the Admission Committee to carry out off campus online admission process. (2) The words and expressions used in these rules but not defined shall have the meanings assigned to them in the Act.

3. Admissions to Bachelor of Engineering Courses.

- The admissions to the Second Year (Third Semester) of the Bachelor of Engineering Courses on all the supernumerary seats shall be given on the basis of the merit list prepared by the Admission Committee.

4. Seats Available for Admission.

- For the purpose of admission, available seats shall include, - (i) Twenty percentage (20%) seats of the sanctioned seats of the immediate previous academic year or institute having AICTE permission of separate division for lateral entry for current academic year of each Bachelor of Engineering Course, in the, - (a) Government Colleges or Institutions, (b) the aided Colleges or Institutions,

and(c)the Unaided Colleges or Institutions of the State, subject to the minimum of two seats;(ii)(a)the seats remained vacant in the previous year, or(b)the seats fallen vacant for any reason during previous year in the first year engineering courses; and(iii)5% of available seats as per clause (i) shall be allotted to the candidates belonging to Tuition Fee Waiver category as per guidelines issued by the All India Council for Technical Education (AICTE), New Delhi.

5. Eligibility for Admission.

- For the purpose of admission, a candidate,(i)shall have passed the qualifying examination with minimum aggregate marks as prescribed in rule 6 in immediate previous academic year in the relevant discipline as mentioned in column 2 of Schedule I from the Technical Examination Board (TEB) or a recognized Board/University or institute approved by AICTE and situated in Gujarat State, and(ii)who have passed qualifying examination with minimum aggregate marks as prescribed in rule 6 in immediate previous admission year in the relevant discipline as mentioned in column 2 of Schedule I from the Technical Examination Board (TEB) or a recognized University or institute approved by AICTE and situated in Gujarat State, and who could not admitted in immediate previous admission year due to late declaration of results by the respective Board/University with minimum aggregate marks as prescribed in rule 6.

6. Minimum aggregate marks.

- For the purpose of admission, the minimum aggregate marks which a candidate shall have obtained in qualifying examination shall be as per norms and requirements prescribed by the AICTE, New Delhi for lateral entry to the Second Year Under Graduate Development Programs for the current academic year.

7. Name of Eligible Bachelor s Course in which Admission may be granted.

- Subject to the fulfillment of eligibility criteria and such other conditions as prescribed under these rules, a candidate who has passed the qualifying examination as shown in column 2 of the Schedule I shall be eligible for the admission as per the courses respectively shown against it in column 3 of the said Schedule I.

8. Reservation of Seats.

(1)For the purpose of admission, the seats shall be reserved for the candidate who are origin of Gujarat and falling under the following categories, namely:-

- | | |
|---|---------|
| (a) Scheduled Caste : | 7
% |
| (b) Scheduled Tribe : | 15
% |
| (c) Socially and Educationally Backward Class,including Widows and Orphan of any caste: | |

(2) A candidate seeking admission on reserved seat shall be required to produce a Certificate of caste from which he originates: Provided that the candidate belonging to Socially and Educationally Backward Class shall be required to produce a certificate to the effect of non-inclusion in Creamy Layer in addition to the caste certificate. (3) No caste certificate shall be valid unless it is duly stamped, signed and issued by the authority empowered by the Government of Gujarat. (4) No certificate to the effect of non-inclusion in Creamy Layer shall be valid, unless it is duly stamped, signed and issued by the authority empowered by the Government of Gujarat. Such certificate shall have been issued on or after the 1st April of the academic year in which the candidate is seeking admission. (5) If a candidate fails to submit the certificates as required under sub-rule (2) within the stipulated time, his candidature shall be considered for admission under unreserved category. (6) If a candidate of reserved category gets admission on unreserved seat in order of merits, he may be given admission on the unreserved seat according to his preference. (7) The admission of a student of a reserved category on a reserved seat shall be valid subject to the verification of caste certificate by the authority empowered by the State Government in this behalf. In case the caste certificate is found invalid on verification, he shall not have right to claim his admission on reserved seat and if he has been already granted admission, such admission shall be cancelled. (8) After granting admission to all the students of reserved categories on reserved seats, the reserved category seats remaining vacant shall be transferred to the unreserved category seats.

9. Reservation For Physically Disabled Candidates.

- Three percentage of the available seats in each category shall be reserved, in accordance with the provisions of the Persons With Disabilities (Equal Opportunities, Protection of Rights and Full Participation) Act, 1995 (1 of 1996), for the person with disability who can perform the academic activities in the course. A candidate with disability shall have to submit certificate of disability issued and duly signed by the Civil Surgeon. Explanation. - "person with disability" means a person suffering from not less than forty per cent of any disability as certified by a medical authority.

10. Reservation for the Children of Defence personals and Ex-Servicemen.

(1) One percentage of available seats shall be reserved for the children of Defence personals and Ex-Servicemen, for admission. (2) A candidate claiming admission against Ex-Servicemen category shall be required to submit a certificate to that effect duly issued by the Director, Sainik Welfare Board, Gujarat State or by the District Sainik Welfare Officer. In-Service Defence Personnel shall be required to submit a certificate to that effect duly issued by the Commanding Officer of the respective unit in which they are serving. (3) The seats remaining vacant against the category of Defense personnel and Ex-Servicemen shall be filled up from the merit list of unreserved category candidates. (4) The children of Defense personnel and Ex-Servicemen of Gujarat origin shall be included under the reserved category specified in this rule, if they have passed the qualifying examination from the institute located outside the Gujarat State.

11. Distribution of Seats.

(1) For the purpose of admission, the available seats shall be distributed on the pro-rata basis among the respective Boards/Universities on the basis of number of eligible candidates of such Boards/Universities who have applied for admission and obtained minimum aggregate marks in qualifying examination conducted by Technical Examination Board (TEB), Gujarat State or by any professional educational college or institute situated in the State of Gujarat. (2) Where the candidates of more than one Diploma courses are eligible for admission in a particular Degree Course, then seats shall be distributed on pro-rata basis for respective diploma courses as prescribed in sub-rule (1).

12. Preparation of Merit List.

(1) Separate course wise and Board/University wise merit lists of the eligible candidates who have applied for admission in the prescribed form and within the prescribed time limit shall be prepared in the following manner, namely:-(i) on the basis of theory marks obtained in the best of ten subjects by the candidates who have passed the diploma under MPEC system; (ii) on the basis of theory marks obtained in the subject of last two semesters by the candidates who have passed the diploma course under Non-MPEC/semester system or the STPI system of the last two semesters, as the case may be: Provided that a candidate who has passed the qualifying examination having project/training in the last or preceding semester or both then the marks/STPI obtained by such candidate in such semester/semesters shall not be considered for the purpose of merit list and the theory marks/STPI obtained in those last two semesters having theory subjects only shall be considered for the purpose of merit list. (2) The criteria for deciding merit order in case of students having equal merit marks shall be in the following sequence, namely:-(a) The candidate who has passed the Higher Secondary School Certificate Examination (Standard XII, 10+2 pattern) passed in the Science Stream or equivalent examination shall be given priority, (b) Total theory marks obtained in the subjects of Physics, Chemistry and Mathematics of the Higher Secondary School Certificate Examination, (Standard XII, 10+2 pattern) passed in the Science Stream or equivalent examination. (c) Total marks obtained in the compulsory subjects of the Secondary School Certificate Examination, (Standard X). (d) Date of Birth (Candidate who is older in age shall be given priority).

13. Correction of Marks.

(1) In case of change in marks of a candidate in the Qualifying Examination, such candidate shall produce a letter to that effect issued by the competent authority or the corrected mark sheet issued by the Board or University, before the Admission Committee at least one day before the commencement of admission process (counseling program) but not later than seven days from the receipt of letter or, as the case may be, corrected mark-sheet. In such case he shall be placed at an appropriate order in the merit list. (2) The candidate who was declared failed initially in the Qualifying Examination, but later on declared passed after rechecking of marks by the Board or University, such candidate shall, notwithstanding any time limit prescribed, be allowed to apply for the admission, provided he produces a letter to that effect issued by the competent authority or the corrected mark sheet issued by the Board or University, within seven days of the receipt of letter or,

as the case may be, corrected mark-sheet. In such case he shall be placed at an appropriate order in the merit list.

14. Registration for admission.

(1)A candidate seeking admission shall apply on-line, for the registration of his candidature, on the web-site, within the time limit specified by the Admission Committee.(2)The Admission Committee shall, by advertisement in the prominent newspapers widely circulated in the State, by web-site and by such other means, as it may consider convenient, publish the date of registration, the list of Help Centers, last date for submission of registration form, courses offered and such other information as may be necessary in this behalf.(3)For the purpose of registration, a candidate shall be required to make payment of such sum towards the Registration fee, etc. as determined by the Admission Committee.(4)Where a candidate has made more than one registrations, the registration made at the later stage shall be taken into consideration for admission purpose and the other registration shall be treated as cancelled.(5)A candidate shall be required to obtain the print out of the registration form and shall sign and submit the same, along with the self-attested copies of the requisite certificates and testimonials as specified in the registration form, at the Help Centre. An acknowledgement for the same shall be given by the person authorized by the Admission Committee.

15. Admission Procedure.

- The admission procedure shall be off-campus on line in the following manner, namely:-(1)The Admission Committee shall prepare merit lists of the eligible candidates under rule 5 and who have applied under sub - rule (1) of rule 14 and after verification of the documents submitted under sub -rule (5) of rule 14.(2)The merit lists shall be displayed on the web-site of the Admission Committee and by such other means, as the Committee may consider convenient.(3)The Admission Committee shall publish the schedule of online counseling program on its web-site, by advertisement in the prominent newspapers widely circulated in the State, and by such other means, as the Committee may consider convenient.(4)The candidate shall be required to give his order of choices of colleges or institutions, online. Allotment of seats shall be made on the basis of merit, category of the candidate and availability of seats. The allotment shall be published on the web-site of the committee. The candidates are required to obtain the print out of the allotment offer letter and bank fee receipt copies from the website.(5)The candidate shall be required to pay such fee as may be determined by Admission Committee.(6)The candidate, for securing his admission, shall produce at the Help Centre, the Information Letter, receipt of fee, all original documents and testimonials, for verification, within the specified time limit. In case, the candidate fails to complete aforesaid procedure within prescribed time limit, admission offered to him shall be treated as cancelled. However, such candidate shall be eligible to participate in the successive upgradation/reshuffling round of counseling provided the candidate has given consent for the same, but shall not be eligible for admission on the seat already allotted to him in previous round/s.(7)Where considerable number of seats falls vacant and it appears to the Admission Committee to fill the vacant seats, it may conduct the on-line admission process for upgradation/reshuffling of seats. The candidate, who opts to take part in such process by giving online consent, shall be considered for such admission.

The candidate may up graded by the choices he already given under sub-rule (4) above. If the candidate gets the admission on the basis of up-gradation, then his earlier admission shall be treated as cancelled.

16. Fee.

(1)A candidate who gets admission in the Government or aided college or institution shall have to pay such fees, as may be determined by the Government, at such stages, as may be determined by the Admission Committee.(2)A candidate who gets admission in unaided colleges or institutions shall have to pay such fees, as may be determined by the Fee Regulatory Committee constituted under section 9 of the Act, for unaided colleges or institutions, at such stages, as may be determined by the Admission Committee.(3)If a candidate, who has paid the fees after getting admission, gets his admission cancelled, his fees shall be refunded after completion of the admission process, provided that the seat vacated by him is filled by another candidate.(4)If a candidate who has paid the fees after getting admission and gets his admission changed in another course and/or college or institution in the readjustment process, he shall pay the difference of fee, if any paid to Admission Committee will be adjusted. He shall pay the difference of fees, if any, at the time of getting admission or, as the case may be, fees shall be refunded after the completion of admission process

17. Change of Course or Institution.

- Except as provided in these rules, no candidate shall, after getting admission, be allowed to change his course or, as the case may be, college or institution in any circumstance.

18. Documents to be attached with the application.

(1)The candidate shall submit the self-attested copies of the following documents along with the print out of the registration form at the Help Center, namely:-(i)Mark sheet of Secondary School Certificate Examination (Standard 10th),(ii)Mark sheet of Higher Secondary School Certificate Examination (Standard XII, 10+2 pattern),(iii)School Leaving Certificate or Transfer Certificate,(iv)Top Ten or final year mark sheet/CPI result based on which the Class or Grade or diploma or degree (for B. Sc) awarded by the Technical Examination Board (TEB) or the University.(v)Caste certificate for a candidate belonging to the Scheduled Castes (SC), Scheduled Tribes (ST) and Socially and Educationally Backward Classes (SEBC), issued by the authority empowered by the State Government in this behalf,(vi)Non-Creamy Layer (NCL) certificate of the family, issued after 1st April of the relevant academic year, by the authority empowered by the State Government in this behalf,(vii)Certificate of Physical Disability, issued and duly signed by the Civil Surgeon/ competent Medical Authority, in case the candidate is a Physically Handicapped,(viii)Certificate of Ex-Serviceman, duly issued by the Director, Sainik Welfare Board, Gujarat State or by the District Sainik Welfare Officer,(ix)A copy of certificate of In-Serviceman duly issued by the Commanding Officer of the respective unit in which he is serving,(x)A copy of certificate of income issued by the authority empowered by the State Government in this behalf, if applicable,(xi)Photograph of candidate of other Board/Universities situated out side Gujarat,(xii)Such other certificates as the Admission Committee deems necessary.(2)After getting

the Information Letter, the candidate shall have to produce for verification, the original certificates and testimonials of the documents attached with the registration form, at the Help Center, within the time-limit as may be specified by the Admission Committee.(3)The Help Center may retain any original certificate or testimonial, which it considers necessary until the admission process is completed. Such Help Center shall return the original certificate or testimonial to the candidate after completion of the admission process.(4)The candidate who is unable to produce original certificates and testimonials necessary for the purpose of admission within the time-limit prescribed in sub-rule (2), he shall report to Admission Committee, where he may be granted provisional admission, subject to following conditions, namely:-(i)On payment of Rs.10,000/- (Rupees Ten thousand) to the Admission Committee as security deposit by the candidate. If the candidate submits the required documents within a period of three working days, the remaining amount of the security deposit shall, after deducting Rs. 500/- (Rupees Five hundred) towards the administrative expenditure, be refunded.(ii)In the event of failure to submit original certificates and testimonials within the time limit as aforesaid, the provisional admission may be cancelled and the security deposit may be forfeited.

19. Ineligibility for admission on production of false documents.

- During verification of documents or subsequently, if the Admission Committee/Help Centers finds any certificate or testimonial or information submitted by any candidate, incorrect or false, the candidature of such candidate shall be cancelled for that year and he shall be disqualified for admission for the period of next two years.

20. Cancellation of Admission and Refund of Fee.

(1)In case of cancellation of admission or transfer of candidate by the Admission Committee, due to administrative reasons, the college or Institution in which the candidate was granted admission shall refund the amount of fee collected by it, to such candidate.(2)In case of cancellation of admission due to failure of candidate to get himself registered to Help Centre and/or report to college or institute within specified time limit declared by the Admission Committee, as prescribed in sub-rules (5) and (6) of rule 15, or for such other reason as the Admission Committee may consider reasonable, and subject to the condition of such vacated seat being filled up by the Admission Committee, the fees collected from such candidate shall be refunded after completion of the admission process and after deduction of such amount as the Admission Committee may determine.(3)(a)In case of a candidate withdrawing his candidature before completion of admission process, for any reason whatsoever, he may request in writing to the Admission Committee for such withdrawal. In such case, the fee collected, if any, by the admission committee shall be refunded to such candidate, subject to the condition of such vacated seat being filled up by the Admission Committee.(b)In case of a candidate withdrawing his candidature after completion of admission process, for any reason whatsoever, he may request in writing to the college or institution in which he is granted admission, for refund of fee paid by him. In such case, the fee shall be refunded, by such college or institution, as per directions of Admission Committee.

21. Vacant Seats.

- After the completion of admission process or offering admission to all the eligible candidates as per rule 5, if the seats remain vacant, such vacant seats shall be filled in by the Admission Committee or by colleges or institutes after inviting applications from eligible candidates by giving wide publicity by an advertisement in the prominent newspapers widely circulated in the State and by maintaining branch wise general inter-se merit of the candidates who have applied for the admission and in accordance with the guidelines issued by Admission Committee time to time in the following manner, namely:- (1) A candidate shall have passed the qualifying examination with minimum aggregate marks as prescribed in rule 6 in immediate previous academic year in the relevant discipline as mentioned in column 2 of Schedule I from the Technical Examination Board (TEB) or a recognised University or college or institution approved by AICTE and situated in Gujarat State, but the result is declared late by the concern University/Board after the last date of registration as declared by the Admission Committee shall be eligible for admission only after completion of first round and before the completion of the admission process declared as such by the Admission Committee. (2) A candidate shall have passed the qualifying examination with minimum aggregate marks as prescribed in rule 6 in any previous academic year in the relevant discipline as mentioned in column 2 of Schedule I from the Technical Examination Board (TEB) or a recognized University or college or institution approved by AICTE and situated in Gujarat State, shall be eligible for admission only after the completion of first round and before the completion of the admission process declared as such by the Admission Committee, provided the seats remain vacant under sub-rule (1). A Branchwise common merit list of such students shall be prepared as provided in rule 14. (3) A candidate who has passed B.Sc Degree examination with Mathematics as one of the subjects in HSC, from a recognised University, situated in the Gujarat State, in the any previous academic year shall also be eligible if seats remain vacant after granting admission under sub rules (1) and (2) on the basis of theory marks secured in the subject of Mathematics, Physics, Chemistry in HSC examination. The criteria for deciding merit order in case of students having equal merit marks shall be in the following sequence, namely:- (a) On the basis of theory marks secured in the subject of Mathematics, Physics, Chemistry in HSC examination, (b) Marks obtained in mathematics in HSC Examination. (c) Marks obtained in English in HSC Examination. (d) Total marks obtained in compulsory subjects of the Secondary School Certificate Examination (Standard X), (e) Date of Birth (Candidate who is older in age shall be given priority) (4) A candidate eligible as per rule 5 and who has passed the qualifying diploma examination from a recognized University or a college or institution approved by AICTE, from other States, if seats remain vacant after granting admission under sub-rules (1), (2) and (3), giving priority to the candidate who are origin of Gujarat.

22. Penalty.

- Any breach of any of the provisions of the Act, these rules and any directions issued by the Government, the Admission Committee, or as the case may be, the Fee Regulatory Committee, by any person, shall be liable for penalty as provided in the Act.

23. Interpretation.

- In implementation of the provisions of these rules, if any difficulty or question arises as to the interpretation of any provision, the decision of the Government shall be final.

24. Supernumerary Seats.

(1) The supernumerary seats shall be filled in accordance with the directions of the All India Council for Technical Education, New Delhi and the Ministry of Human Resources Development, Government of India. (2) (i) The Tuition Fee Waiver Scheme shall be applicable to seats as per sub-rule (i) of rule 4 for the engineering and technology courses; (ii) the supernumerary seats not exceeding five percent of seats as per sub-rule (i) of rule 4 of the colleges or institutions shall be filled on the basis of merit of the candidate, whose parent's annual income is less than Rs. 4.50 lakhs from all sources of income; (iii) no supernumerary seat which remains vacant shall be offered to any category other than the category to which the supernumerary seat belongs; (iv) the Tuition Fee Waiver Scheme shall be for the complete duration of the course and the candidate admitted under this scheme shall not be allowed to change the institution or the course in any circumstances.

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(See rule 7)

Sr. No.	Qualifying Examination Name of Diploma courses	Corresponding Bachelor of Engineering and Technology Courses
1	2	3
	(a) Civil Engineering	
1	Engineering (b) Transportation Engineering	(a) Civil Engineering (b) Water Resource Management Engineering
2	Mechanical Engineering	(a) Mechanical Engineering (b) Aeronautical Engineering (c) Industrial Engineering (d) Manufacturing Engineering
3	Electrical Engineering	(a) Electrical Engineering (b) Electrical and Electronics Engineering
4	Environmental Engineering	(a) Environmental Engineering (b) Environmental Science and Technology / Engineering
	(a) Bio-medical Engineering, (b) Advanced Bio-medical Engineering	
5	Diploma in Medical Instrumentation	(a) Bio-medical Engineering (b) Bio-medical and Instrumentation Engineering
6	Chemical Engineering	(a) Chemical Engineering (b) Bio-technology Engineering (c) Chemical Technology
7	Petrochemical	Technology Chemical Engineering

8	Electronics and Communication Engineering	(a) Electronics and Communication Engineering (b) Electrical and Electronics Engineering (c) Electronics and Telecommunication Engineering (d) Electronics Engineering. (e) Information and Communication Technology
9	Computer Engineering	(a) Computer Engineering (b) Computer science and Engineering
10	Information Technology	(a) Information Technology. (b) Information and Communication Technology
11	Instrumentation and Control Engineering	Instrumentation and Control Engineering
12	Power Electronics Engineering	(a) Power Electronics Engineering (b) Electrical and Electronics Engineering
13	Post Diploma in Dairy Engineering	Food Processing Technology
14	Mechatronics Engineering	Mechatronics Engineering
15	Metallurgy Engineering	Metallurgy Engineering
16	(a) Textile Manufacturing Technology, (b) Textile Designing	(a) Textile Technology (b) Textile Engineering
17	Textile Processing Technology	Textile Production Engineering
18	(a) Tool and Die Making, (b) Fabrication Technology	Production Engineering
19	Automobile Engineering	(a) Automobile Engineering (b) Industrial Engineering
20	Plastic Engineering	(a) Plastic Technology (b) Plastic Engineering
21	Mining Engineering	Mining Engineering
22	Rubber Technology	Rubber Technology