ANDHRA PRADESH PUBLIC SERVICE COMMISSION: HYDERABAD
NOTIFICATION NO. 19/2012, Dt: 30/07/2012
LECTURERS IN GOVERNMENT POLYTECHNIC COLLEGES (ENGINEERING AND NON-ENGINEERING) IN A.P. TECHNICAL EDUCATION SERVICE
(GENERAL RECRUITMENT)

PARA – 1:
Recruitment applications are invited On-line through the proforma Application to be made available on WEBSITE (www.apspsc.gov.in) in from **12/11/2012 to **09/12/2012 (Note: **07/12/2012 is the last date for payment of fee) for recruitment to the post of Lecturers in Government Polytechnic Colleges (Engg. & Non Engg).

The desirous eligible Candidates may apply ON-LINE by satisfying themselves with the terms and conditions of this recruitment. The details are as follows:-

<table>
<thead>
<tr>
<th>Post Code</th>
<th>Name of the Post</th>
<th>No. of Vacancies</th>
<th>Age as on 01/07/2012 Min. Max.</th>
<th>Scale of Pay</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Lecturer in Civil Engineering</td>
<td>*143</td>
<td>18 –35</td>
<td>Rs. 15,600-39,100 + AGP 5,400 (AICTE 2006 Scales)</td>
</tr>
<tr>
<td>02</td>
<td>Lecturer in Mechanical Engineering</td>
<td>*154</td>
<td></td>
<td></td>
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<tr>
<td>03</td>
<td>Lecturer in Electrical &amp; Electronics Engineering</td>
<td>*144</td>
<td></td>
<td></td>
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<tr>
<td>04</td>
<td>Lecturer in Electronics &amp; Communication Engineering</td>
<td>*136</td>
<td></td>
<td></td>
</tr>
<tr>
<td>05</td>
<td>Lecturer in Computer Engineering</td>
<td>*54</td>
<td></td>
<td></td>
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<tr>
<td>06</td>
<td>Lecturer in Textile Technology</td>
<td>*09</td>
<td></td>
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<tr>
<td>07</td>
<td>Lecturer in Information Technology</td>
<td>04</td>
<td></td>
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<td>08</td>
<td>Lecturer in Automobile Engineering</td>
<td>05</td>
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<td>09</td>
<td>Lecturer in Footwear Technology</td>
<td>03</td>
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<tr>
<td>10</td>
<td>Lecturer in Packaging Technology</td>
<td>02</td>
<td></td>
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<tr>
<td>11</td>
<td>Lecturer in Architectural Engineering</td>
<td>01</td>
<td></td>
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<tr>
<td>12</td>
<td>Lecturer in Garment Technology</td>
<td>01</td>
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<tr>
<td>13</td>
<td>Lecturer in Ceramic Technology</td>
<td>01</td>
<td></td>
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<tr>
<td>14</td>
<td>Lecturer in Lithography</td>
<td>01</td>
<td></td>
<td></td>
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<tr>
<td>15</td>
<td>Lecturer in Tannery</td>
<td>02</td>
<td></td>
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<tr>
<td>16</td>
<td>Lecturer in English</td>
<td>*62</td>
<td></td>
<td></td>
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<tr>
<td>17</td>
<td>Lecturer in Mathematics</td>
<td>55</td>
<td></td>
<td></td>
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<tr>
<td>18</td>
<td>Lecturer in Physics</td>
<td>60</td>
<td></td>
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<tr>
<td>19</td>
<td>Lecturer in Chemistry</td>
<td>60</td>
<td></td>
<td></td>
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<tr>
<td>20</td>
<td>Lecturer in Commercial &amp; Computer Practice</td>
<td>*19</td>
<td></td>
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<tr>
<td>*21</td>
<td>Lecturer in Mining Engineering</td>
<td>*03</td>
<td></td>
<td></td>
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<tr>
<td>TOTAL</td>
<td></td>
<td>*919</td>
<td></td>
<td></td>
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</tbody>
</table>

*Additional vacancies and Post Code No. 21, added as per Orders, Dt. 06/09/2012
**As per orders, Dated. 09/11/2012.
(The details of Break up of Vacancies viz., Community, Zone Wise and Gender wise (General/Women) may be seen at Annexure-I.)

NOTE:
1. THE APPLICANTS ARE REQUIRED TO GO THROUGH THE USER GUIDE AND DECIDE THEMSELVES AS TO THEIR ELIGIBILITY FOR THIS RECRUITMENT CAREFULLY BEFORE APPLYING AND ENTER THE PARTICULARS COMPLETELY ONLINE. ALL CANDIDATES HAVE TO PAY RS. 100/- (RUPEES ONE HUNDRED ONLY) TOWARDS APPLICATION PROCESSING FEE AND ALL THOSE WHO ARE NOT EXEMPTED FROM PAYMENT OF FEE HAVE ALSO TO PAY RS. 120/- (RUPEES ONE HUNDRED AND TWENTY ONLY) TOWARDS EXAMINATION FEE.
2. APPLICANT MUST COMPULSORY FILL-UP ALL RELEVANT COLUMNS OF APPLICATION AND SUBMIT APPLICATION THROUGH WEBSITE ONLY. THE PARTICULARS MADE AVAILABLE IN THE WEBSITE SHALL BE PROCESSED THROUGH COMPUTER AND THE ELIGIBILITY DECIDED IN TERMS OF NOTIFICATION AND CONFIRMED ACCORDINGLY.
3. THE APPLICATIONS RECEIVED ONLINE IN THE PRESCRIBED PROFORMA AVAILABLE IN THE WEBSITE AND WITHIN THE TIME SHALL ONLY BE CONSIDERED AND THE COMMISSION WILL NOT BE HELD RESPONSIBLE FOR ANY KIND OF DISCREPANCY.
4. APPLICANTS MUST COMPULSORY UPLOAD HIS/HER OWN SCANNED PHOTO AND SIGNATURE THROUGH J.P.G FORMAT.
5. THE APPLICANTS SHOULD NOT FURNISH ANY PARTICULARS THAT ARE FALSE, TAMPERED, FABRICATED OR SUPPRESS ANY MATERIAL INFORMATION WHILE MAKING AN APPLICATION THROUGH WEBSITE.

6. IMPORTANT:- HAND WRITTEN/TYPED/PHOTOSTAT COPIES/PRINTED APPLICATION FORM WILL NOT BE ENTERTAINED.

7. ALL THE ESSENTIAL CERTIFICATES ISSUED BY THE COMPETENT AUTHORITY SHALL COMPULSORY BE KEPT WITH THE APPLICANTS TO PRODUCE AS AND WHEN REQUIRED, ON THE DAY OF VERIFICATION DATE ITSELF FOR VERIFICATION. IF CANDIDATES FAIL TO PRODUCE THE SAME, THE CANDIDATURE IS REJECTED / DISQUALIFIED WITHOUT ANY FURTHER CORRESPONDENCE.

The following blank formats (Proforma) are available in the Commission's Website (www.apspsc.gov.in) The candidates can use, if required.

i) Community, Nativity and Date of Birth Certificate
ii) Declaration by the Un-Employed
iii) School Study Certificate
iv) Certificate of Residence
v) Creamy Layer Certificate

IMPORTANT NOTE: Distribution of vacancies among roster points is subject to variation and confirmation from the Unit Officer/ Appointing authority.

NOTE ON IMPORTANT LEGAL PROVISIONS GOVERNING THE RECRUITMENT PROCESS:

1) Vacancies: The recruitment will be made to the vacancies notified only. There shall be no waiting list as per G.O.Ms.No. 81 General Administration (Ser.A) Department, Dated 22/02/1997 and Rule 6 of APPSC Rules of procedure. The vacancies are subject to variation and confirmation by the Unit Officer, till such time as decided by the Commission. In any case, no cognisance will be taken by Commission of any vacancies arising or reported after the completion of the selection and recruitment process or the last date as decided by the Commission as far as this Notification is concerned, and these will be further dealt with as per G.O. & Rule cited above.

2) The Recruitment will be processed as per this Notification Instructions issued by the Government and also as decided by the Commission from time to time in terms of respective Special Rules/Adhoc Rules governing the Recruitment and G.O.Ms.No. 178, Higher Education (TE-1) Department, dated 09/12/2005 and as per Government orders issued from time to time, and other related G.Os, Rules etc., applicable in this regard.

3) Rules: All are informed that the various conditions and criterion prescribed herein are Governed by the General Rules of A.P. State and Subordinate Service Rules, 1996 read with the relevant Special Rules applicable to any particular service in the departments. Any guidelines or clarification is based on the said Rules, and in case of any necessity, any matter will be processed as per the relevant General and Special Rules cited as in force.

4) The Commission is empowered under the provisions of Article 315 and 320 of the Constitution of India read with relevant Laws, Rules, Regulations and executive instructions and all other enabling legal provisions in this regard to conduct examination for appointment to the posts notified herein, duly following the principle of order of merit as per Rule 3(vi) of the APPSC Rules of Procedure read with relevant statutory provisions and ensuring that the whole recruitment and selection process is carried out with utmost regard to maintain more of secrecy and confidentiality so as to ensure that the principle of merit is scrupulously followed. A candidate shall be disqualified for appointment, if he himself or through relations or friends or any others has canvassed or endeavored to enlist for his candidature, extraneous support, whether from official or non-official sources for appointment to this service.

5) Zonal/Local: In terms of Para 8 of the G.O., A.P. Public Employment (Organisation of Local Cadres and Regulation of Direct Recruitment) Order, 1975 (G.O.Ms.No. 674, G.A. (SPF-A) Dept., dated: 28/10/1975) read with G.O.Ms.No.124, General Administration (SPF-A) Department, dated: 07/03/2002, and other orders/instructions issued by the Government in this regard, 70% of posts are to be filled by local cadre candidates and 30% of posts are open for which local and non-local are to be considered on the basis of combined merit list.

6) The persons already in Government Service/ Autonomous bodies/ Government aided institutions etc., whether in permanent or temporary capacity or as work charged employees are however required to inform in writing, their Head of Office/ Department, that they have applied for this recruitment.

7) The Commission is also empowered to invoke the penal provisions of the A.P. Public Examinations (Prevention of Malpractices) and unfair means Act 25/97 and for matters connected therewith or incidental thereto in respect of this Notification.

8) Caste & Community: Community Certificate issued by the competent authority in terms of G.O.Ms No. 58, SW (J) Dept., dt: 12/5/97 should be submitted at appropriate time. As per
General Rules for State and Subordinate Service Rules, Rule-22(28) Explanation: No person who professes a religion different from Hinduism shall be deemed a member of Scheduled Caste. **BCs, SCs & STs belonging to other States are not entitled for reservation.** Candidates belonging to other States shall pay the prescribed fee of Rs. 120/- (Rupees One Hundred and Twenty Only) through Challan and upload as indicated at Para-4. Otherwise such applications will not be considered and no correspondence on this will be entertained.

9) Reservation and eligibility in terms of General Rule 22 & 22 (A) of A.P. State and Subordinate Service Rules are applicable.
10) Reservation to Disabled persons is not applicable as per the Departmental Special Rules.
11) The Reservation to Women will apply as per General Rules and Special Rules.
12) Reservation to BC-E group will be subject to the adjudications of the litigation before the Honorable Courts including final orders in Civil Appeal No: (a) 2628-2637 of 2010 in SLP No. 7388-97 of 2010, dated. 25/03/2010 and orders from the Government.
13) Government have issued orders in G.O. Ms. No. 3, Backward Classes Welfare(C-2) Department, dated 4/4/2006, laying down the criteria to determine Creamy Layer among Backward Classes in order to exclude from the provisions of reservations. Government of Andhra Pradesh has adopted all the criteria to determine the Creamy Layer among Backward Classes as fixed by the Government of India. In view of the Government orders, in G.O. Ms. No. 3, Backward Classes Welfare(C-2) Department, dated 4/4/2006, the candidates claiming as belong to Backward Classes have to produce a Certificate regarding their exclusion from the Creamy Layer from the competent authority (Tahasildar). Certificate excluding from Creamy Layer has to be produced at an appropriate time. **B.C. Candidates whose Parent's income is less than 4.00 Lakhs per annum come under Non-Creamy Layer.** In case of failure to produce the same on day of verification, the Candidature is rejected without further correspondence.
14) The Candidates who have obtained Degrees through Open Universities / Distance Education mode are required to have recognition of Joint Committee i.e., AICTE, UGC,DEC and IGNOU. Unless such Degrees had been recognised by the D.E.C. they will not be accepted for purpose of Educational Qualification. The onus in case of doubt, of Proof of recognition by the D.E.C. that their Degrees / Universities have been recognised, rests with the Candidate.

**PARA-2: EDUCATIONAL QUALIFICATIONS:**

Applicants must possess the qualifications from a recognized University/Board as detailed below or equivalent thereto, subject to various specifications in the relevant Service Rules and as indented by the department as on the date of Notification.

<table>
<thead>
<tr>
<th>PC.</th>
<th>Name of the Post</th>
<th>Educational Qualifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Lecturer in Civil Engineering</td>
<td>Must possess a First Class Bachelor's Degree in the appropriate Branch of Engineering/Technology as recognized by All India Council for Technical Education or its equivalent.</td>
</tr>
<tr>
<td>02</td>
<td>Lecturer in Mechanical Engineering</td>
<td></td>
</tr>
<tr>
<td>03</td>
<td>Lecturer in Electrical &amp; Electronics Engineering</td>
<td></td>
</tr>
<tr>
<td>04</td>
<td>Lecturer in Electronics &amp; Communication Engineering</td>
<td></td>
</tr>
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<td>05</td>
<td>Lecturer in Computer Engineering</td>
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<td>Lecturer in Footwear Technology</td>
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<td>10</td>
<td>Lecturer in Packing Technology</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Lecturer in Architectural Engineering</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Lecturers in Mining Engineering</td>
<td></td>
</tr>
<tr>
<td>No.</td>
<td>Lecturer in Garment Technology</td>
<td>A First Class Bachelors Degree in Textile Technology or First Class Master’s Degree in Home Science with Clothing and Textile as a subject from an university in India recognized by UGC/AICTE.</td>
</tr>
<tr>
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</tr>
<tr>
<td>13</td>
<td>Lecturer in Ceramic Technology</td>
<td>Must possess a First Class Bachelors Degree in Ceramic Technology or a pass in Section A and B of the examination conducted by the Indian Institute of Ceramic on the lines of AMIE as recognized by All India Council for Technical Education or its equivalent.</td>
</tr>
<tr>
<td>14</td>
<td>Lecturer in Lithography</td>
<td>A First Class Bachelors Degree in Printing Technology</td>
</tr>
<tr>
<td>15</td>
<td>Lecturer in Tannery</td>
<td>A First Class Bachelors Degree in Leather Technology.</td>
</tr>
<tr>
<td>16</td>
<td>Lecturer in English</td>
<td>A First Class Master’s Degree in English from an University in India recognized by UGC.</td>
</tr>
<tr>
<td>17</td>
<td>Lecturer in Mathematics</td>
<td>A First Class Master’s Degree in Mathematics from an University in India recognized by UGC.</td>
</tr>
<tr>
<td>18</td>
<td>Lecturer in Physics</td>
<td>A First Class Master’s Degree in Physics from an University in India recognized by UGC.</td>
</tr>
<tr>
<td>19</td>
<td>Lecturer in Chemistry</td>
<td>A First Class Master’s Degree in Chemistry from an University in India recognized by UGC.</td>
</tr>
<tr>
<td>20</td>
<td>Lecturer in Commercial and Computer Practice</td>
<td>i) A First Class Master’s Degree in Commerce. ii) Typewriting in Higher Grade in English and Shorthand Higher Grade in English Conducted by the State Board of Technical Education and Training.</td>
</tr>
</tbody>
</table>

**Note:** Relaxation of 5% marks is available for the candidates belonging to SC/ST, i.e., 55% marks is enough for the purpose of eligibility.

**PARA-3 AGE:** Minimum 18 years & Maximum 35 years as on 01/07/2012

N.B: The Candidate shall complete 18 years and shall not be more than 35 years of age.

**NOTE:** The upper age limit presribed above is relasable in the following cases:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Category of candidates</th>
<th>Relaxation of age permissible</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Retrenched temporary employees in the State Census Department with a minimum service of 6 months.</td>
<td>3 Years</td>
</tr>
<tr>
<td>2</td>
<td>A.P. State Government Employees (Employees of APSEB, APSRTC, Corporations, Municipalities etc. are not eligible).</td>
<td>5 Years based on the length of regular service.</td>
</tr>
<tr>
<td>3</td>
<td>Ex-Service men</td>
<td>3 years &amp; length of service rendered in the armed forces.</td>
</tr>
<tr>
<td>4</td>
<td>N.C.C.(who have worked as Instructor in N.C.C.)</td>
<td>3 Years &amp; length of service rendered in the N.C.C.</td>
</tr>
<tr>
<td>5</td>
<td>SC/ST and BCs</td>
<td>5 Years</td>
</tr>
</tbody>
</table>

**EXPLANATION:**

After provision of the relaxation of Age in Col. No. 3 of table above; the age shall not exceed the maximum age prescribed for the post for the candidates at Sl.No. 3 & 4.

The age relaxations for Ex-Servicemen is applicable for those who have been released from Armed Forces otherwise than by way of dismissal or discharge on account of misconduct or inefficiency.

**PARA-4: (a) FEE:** (Remittance of Fee) Each applicant must pay Rs. 100/- (Rupees One Hundred Only) towards Application Processing Fee and Examination Fee RS.120/- (RUPEES ONE HUNDRED AND TWENTY ONLY) (If Candidates are not exempted from payment of Fee). Payment of Rs. 100/- (Rupees One Hundred Only) towards application processing fee is compulsory for all Applicants.

**b) Mode of Payment of Fee:**

I Step:-The Candidate has to logon to the WEBSITE (www.apspsc.gov.in) and enter his/her Basic Personal Details like Name, Father's Name, Date of Birth, and Community.

II Step:-Immediately on entering the above details the Applicant will get (downloadable)- Challan Form to pay the Fee at AP Online centers /State Bank of India.
III Step: The Applicant should pay the prescribed Fee in any one of the A.P. Online centers / State Bank of India and obtain Fee paid challan with Journal Number in the first instance.

IV Step: On the next working day after payment of Fee the Applicant should again visit WEBSITE and enter the Journal Number to get the format of Application. The applicant has to invariably fill all the columns in the Application and should submit ON-Line. Even after making payment of fee, candidate fails to submit the bio-data particulars, such applications shall be rejected without giving any notice.

V Step: If any candidate fails to enter “Community” for any reason, they will be treated as an OC without giving any notice.

NOTE ON EXEMPTIONS: The following category of candidates are exempted from payment of fee:

a) SC, ST, BC, & Ex-Service Men.

b) Families having Household Supply White Card issued by Civil Supplies Department, A.P. Government. (Residents of Andhra Pradesh)

c) Un employed youth in the age group of 18 to 35 years as per G.O.Ms.No. 439, G.A.(Ser.A) Dept., dated: 18/10/1996 should submit declaration at an appropriate time to the Commission.

d) Applicants belonging to the categories mentioned above (except Ex-Service Men) hailing from other States are not entitled for exemption from payment of fee and not entitled for claiming any kind of reservation.

PARA-5: PROCEDURE OF SELECTION:

THE SELECTION OF CANDIDATES FOR APPOINTMENT TO THE POSTS WILL BE MADE IN TWO SUCCESSIVE STAGES VIZ.,

i) Written Examination (Objective Type) and

ii) Oral Test in the shape of Interview only for those qualified as per Rules.

THE FINAL SELECTION OF THESE POSTS WILL BE BASED ON THE WRITTEN AND ORAL MARKS PUT TOGETHER.

1. Only those candidates who qualify in the Written Examination by being ranked high will be called for interview in 1:2 ratio. The minimum qualifying marks for interview / selection are OCs 40%, BCs 35% SCs, and STs 30% or as per Rules. The minimum qualifying marks are relaxable in the case of SC/ST/BC at the discretion of the Commission.

2. The candidates will be selected and allotted to the Service as per their rank in the merit list and as per zonal preference for allotment of candidates against vacancies and for the vacancies available.

N.B.: Mere securing minimum qualifying marks does not vest any right in a candidate for being called for interview.

3. The appearance in all the papers at the Written Examination and also for interview in case called upon, if qualified, as per Rules is compulsory. Absence in any of the above tests will automatically render his candidature as disqualified.

4. Candidates have to produce Original documents and other particulars for verification as and when required and called for. If the particulars furnished in the Application do not tally with the Original documents produced by the candidate, the candidature will be rejected. As candidature for the recruitment is processed through Computer/Electronic devices based on the particulars furnished in the Application Form, the candidate is advised to fill in all the relevant particulars carefully.

5. While the Commission calls for preference of candidates in respect of posts, zones etc., in the Application Form, it is hereby clarified that the said preferences are only indicative for being considered to the extent possible but not binding or limiting the Commission's powers enjoyed under Article 315 and 320 of the Constitution of India. Therefore, the Commission has the power to assign a successful candidate to any of the notified posts for which he is considered by them to be qualified and eligible, subject to fulfilling the selection criterion. Mere claim of preference for any Zone for allotment against vacancy does not confer a right to selection for that Zone in particular or any Zone in general.

6. The appointment of selected candidates will be subject to their being found medically fit in the appropriate medical classification, and if he is of sound health, active habits, free from any bodily infirmity.

PARA-6: RESERVATION TO LOCAL CANDIDATES: Reservation to the Local candidates is applicable as provided in the Rules and as amended from time to time as in force on the date of notification. The candidates claiming reservation as Local candidates should obtain the required
Study certificates (from IV Class to X Class or SSC) OR Residence Certificate in the Proforma only for those candidates who have not studied in any Educational Institutions as the case may be. The relevant certificates may be got ready with authorized signature and kept with the candidates to produce as and when required.

**DEFINITION OF LOCAL CANDIDATE:**

(A) (i) "LOCAL CANDIDATE" means a candidate for direct recruitment to any post in relation to that Local areas where he/she has studied in Educational Institution(s) for not less than four consecutive academic years prior to and including the year in which he/she appeared for S.S.C or its equivalent examination. If however, he/she has not studied in any educational institution during the above four years period, it is enough if he/she has resided in that area which is claimed as his/her local area during the above said period.

(ii) In case Candidate does not fall within the scope of above then, if he/she has studied for a period of not less than seven years prior to and inclusive of the year in which he/she has studied SSC or its equivalent, he/she will be regarded has local candidate on the basis of the maximum period out of the said period of seven years AND where the period of his/her study in two or more local areas or equal such local area where he/she has studied last in such equal periods will be taken for determining the local candidature. Similarly, if he/she has not studied during the above said period in any Educational Institution(s) the place of residence during the above period will be taken into consideration and local candidature determined with reference to the maximum period of residence or in the case of equal period where he/she has resided last in such equal periods.

(iii) If the claim for local candidature is based on study, the candidate is required to produce a certificate from the Educational Institution(s) where he/she has studied during the said 4/7-year period. If, however, it is based on residence, a certificate should be obtained from an officer of the Revenue Department not below the rank of a Mandal Revenue Officer in independent charge of a Mandal.

(iv) If, however, a candidate has resided in more than one Mandal during the relevant four/seven years period but within the same District or Zone as the case may be separate certificates from the Mandal Revenue Officers exercising jurisdiction have to be obtained in respect of different areas.

**NOTE:**

(A) Single certificate, whether of study or residence would suffice for enabling the candidate to apply as a "LOCAL CANDIDATE".

(B) RESIDENCE CERTIFICATE WILL NOT BE ACCEPTED, IF A CANDIDATE HAS STUDIED IN ANY EDUCATIONAL INSTITUTION UPTO S.S.C. OR EQUIVALENT EXAMINATION, SUCH CANDIDATES HAVE TO PRODUCE STUDY CERTIFICATES INVARIABLY. THE CANDIDATES, WHO ACQUIRED DEGREE FROM OPEN UNIVERSITIES WITHOUT STUDYING SSC/ MATRICULATION OR EQUIVALENT IN EDUCATIONAL INSTITUTIONS, HAVE TO SUBMIT RESIDENCE CERTIFICATE ONLY. EDUCATIONAL INSTITUTIONS MEANS A RECOGNIZED INSTITUTION BY THE GOVERNMENT/UNIVERSITY/COMPETENT AUTHORITY.

(C) Candidates are advised to refer provisions of the PRESIDENTIAL ORDER 1975 in this regard

(D) Each of the following Zones comprises the Districts mentioned against each Zone.

**Zones:**

1. Srikakulam, Visakhapatnam and Vizianagaram. (SKM, VSP, VZM)
2. East Godavari, West Godavari and Krishna. (EG, WG, KST)
3. Guntur, Prakasam and Nellore. (GNT, PKM, NLR)
4. Chittoor, Cuddapah, Anantapur and Kurnool. (CTR, CDP, ATP, KNL)
5. Adilabad, Karimnagar, Warangal and Khammam. (ADB, KRMN, WGL, KMM)
6. Hyderabad, Ranga Reddy, Nizamabad, Mahaboobnagar, Medak and Nalgonda. (HYD, RRD, NRB, MBN, MDK, NLG)

City Cadre: City of Hyderabad consists of Hyderabad Division, Secunderabad Division of Municipal Corporation of Hyderabad, Secunderabad Contomment area, O.U.Campus, Fatehnagar, Bowenpally, Macha Bolarum, Malkajgiri, Uppal Khalsa, Alwal, Balanagar, Moosapet, Kukatpally Panchayat Areas and Zamistanpur and Pallaguda villages. (HYD)

**NB:** Where City Cadre is not organized separately Candidates belonging to City Cadre – City of Hyderabad will be considered under Zone-VI

**PARA-7: SCHEME OF EXAMINATION:** The Scheme & Syllabus for the examination has been shown in Annexure-II.
PARA-8: HOW TO APPLY:

A) HOW TO UPLOAD THE APPLICATION FORM:
   
i) The Applicants have to read the User Guide for Online Submission of Applications and then proceed further.
   
I Step: The Candidate has to logon to the WEBSITE (www.apspsc.gov.in) and enter his/her Basic Personal Details like Name, Father’s Name, Date of Birth, and Community.
   
II Step: Immediately on entering the above details the Applicant will get (downloadable) Challan Form to pay the Fee at AP Online centers /State Bank of India.
   
III Step: The Applicant should pay the prescribed Fee in any one of the A.P. Online centers / State Bank of India and obtain Fee paid challan with Journal Number in the first instance.
   
IV Step: On the next working day after payment of Fee the Applicant should again visit WEBSITE and enter the Journal Number to get and fill the format of Application and should submit ON-LINE.
   
V Step: Affix your recent Colour Passport Size Photograph on a White Paper and then sign below the photograph with Black Pen. Scan the above Photo and Signature and Upload in the appropriate space provided (JPG Format) in Application Form.
   
VI Step: The applicants have to invariably fill all the relevant columns in the Application and should submit ON-LINE.

   ii) Hand written/ Typed/ Photostat copies/ outside printed Application Form will not be accepted and liable for rejection.
   
   iii) Only applicants willing to serve anywhere in the Andhra Pradesh should apply.
   
   iv) For any problems related to Online submission and downloading of Hall-Tickets please contact 040-22357455 ((Call Time: 9.30 A.M to 1.00 P.M & 1.30 P.M to 5.30 P.M) or mail to appschelpdesk@gmail.com.

NOTE:

1. The Commission is not responsible, for any discrepancy in submitting through Online. The applicants are therefore, advised to strictly follow the instructions and User guide in their own interest.
2. The particulars furnished by the applicant in the Application Form will be taken as final, and data entry processed, based on these particulars only by Computer. Candidates should, therefore, be very careful in Uploading / Submitting the Application Form Online.
3. INCOMPLETE/INCORRECT APPLICATION FORM WILL BE SUMMARILY REJECTED. THE INFORMATION IF ANY FURNISHED BY THE CANDIDATE SUBSEQUENTLY WILL NOT BE ENTERTAINED BY THE COMMISSION UNDER ANY CIRCUMSTANCES. APPLICANTS SHOULD BE CAREFUL IN FILLING-UP THE APPLICATION FORM AND SUBMISSION. IF ANY LAPSE IS DETECTED DURING THE SCRUTINY, THE CANDIDATURE WILL BE REJECTED EVEN THOUGH HE/SHE COMES THROUGH THE FINAL STAGE OF RECRUITMENT PROCESS OR EVEN AT A LATER STAGE.
4. Before Uploading/Submission Application Form, the Candidates should carefully ensure his/her eligibility for this examination. NO RELEVANT COLUMN OF THE APPLICATION FORM SHOULD BE LEFT BLANK, OTHERWISE APPLICATION FORM WILL NOT BE ACCEPTED.
5. The Commission reserves the right to create centre(s) for examination and also to call the Candidates for the test at any other centre.

PARA-9: CENTRES FOR THE WRITTEN EXAMINATION:

1. The Written Examination will be held at the following Five Centres:
   
   1- HYDERABAD  2- VISAKHAPATNAM  3- VIJAYAWADA
   
   4- TIRUPATI  5- WARANGAL.

2. Applicants should choose only one of the above centres. Centre once chosen shall be final.
   
   The Commission however reserves the right to allot candidates to any centre other than centre chosen by the applicant or abolish a centre and/or to create a new centre for administrative reasons.

3. The Written Examination will be held on 06/01/2013.

PARA-10: INSTRUCTIONS TO CANDIDATES:

1) The candidates must note that his/her admission to the examination is strictly provisional. The mere fact that an Admission has been issued to him/her does not imply that his/her candidature has been finally cleared by the Commission or that the entries made by the candidate in his/her application have been accepted by the Commission as true and correct. The candidates have to be found suitable after verification of original certificates; and other eligibility criteria. The Applicants have to upload the his/her scanned recent colour passport
photo and signature to the Application Form. Failure to produce the same photograph, if required, at the time of interview/verification, may lead to disqualification. Hence the candidates are advised not to change their appearance till the recruitment process is complete.

2) The candidates should go through the instructions given on the cover page of test booklet and carefully write his/her Register Number, Subject / Subject Code, Booklet Series, Name of the Examination Centre etc., in the Answer Sheet, which will be provided to him/her in the examination hall.

3) Since the answer sheets are to be scanned (valued) with Optical Mark Scanner system, the candidates have to USE BALL POINT PEN (BLUE/BLACK) ONLY FOR MARKING THE ANSWERS. The candidates will be supplied OMR Sheet consists of two copies i.e., the Original Copy (Top Sheet) and Duplicate Copy (Bottom Sheet). The candidate is required to use ball point pen (Blue or Black) for filling the relevant blocks in the OMR Sheet including bubbling the answers. After writing the examination the candidate has to handover the original OMR sheet (Top Sheet) to the invigilator in the examination hall, if any candidate takes away the original OMR Sheet (Top Sheet) his/her candidature will be rejected. However the candidate is permitted to take away the duplicate OMR Sheet (Bottom Sheet) for his/her record. The candidates should bring Ball Point Pen (Blue/Black and smooth writing pad) to fill up relevant columns on the Answer Sheet. The candidate must ensure encoding the Register Number, Subject/Subject Code, Booklet Series, Name of the Examination Centre, Signature of the Candidate and Invigilator, etc., on the O.M.R. Answer sheet correctly, failing which the Answer sheet will be rejected and will not be valued. Use of whitener on OMR Sheet will lead to disqualification.

4) The OMR Sheets have to bubble only by Ball Point Pen (Blue/Black). Bubbling by Pencil / Ink Pen / Gel Pen is not permitted in this examination.

5) The candidates should satisfy the Invigilator of his identity with reference to the signature and photographs available on the Nominal Rolls and Hall Ticket.

6) The candidates should take their seats 20 minutes before the commencement of the examination and are not to be allowed after 10 minutes of the scheduled time. They should not leave the examination hall till expiry of full time. The candidates are allowed to use the calculators in the examination hall (not programmable calculators). Loaning and interchanging of articles among the candidates is not permitted in the examination hall. Cell phones and Pagers are not allowed in the examination hall.

7) The candidates are expected to behave in orderly and disciplined manner while writing the examination. If any candidate takes away Answer Sheet, the candidature will be rejected and in case of impersonation/ disorder/ rowdy behaviour during Written Examination, necessary F.I.R. for this incident will be lodged with concerned Police Station, apart from disqualifying appointment in future.

8) The Commission would be analyzing the responses of a candidate with other appeared candidates to detect patterns of similarity. If it is suspected that the responses have been shared and the scores obtained are not genuine/ valid, the Commission reserves the right to cancel his/ her candidature and to invalidate the Answer Sheet.

9) If the candidate noticed any discrepancy printed on Hall ticket as to community, date of birth etc., they may immediately bring to the notice of Commission’s officials/Chief Superintendent in the examination centre and necessary corrections be made in the Nominal Roll, in the Examination Hall against his/her Hall Ticket Number for being verified by the Commission’s Office.

PARA-11: DEBARMENT:

a) Candidates should make sure of their eligibility to the post applied for and that the declaration made by them in the format of Application regarding their eligibility is correct in all respects. Any candidate furnishing in-correct information or making false declaration regarding his/her eligibility at any stage or suppressing any information is liable TO BE DEBARRED FOR FIVE YEARS FROM APPEARING FOR ANY OF THE EXAMINATIONS CONDUCTED BY THE COMMISSION, and summarily rejection of their candidature for this recruitment.


c) The Commission is vested with the constitutional duty of conducting recruitment and selection as per rules duly maintaining utmost secrecy and confidentiality in this process and any attempt by anyone causing or likely to cause breach of this constitutional duty in such manner or by such action as to violate or likely to violate the fair practices followed and
ensured by the Commission will be sufficient cause for rendering such questionable means as ground for debarment.

d) Any candidate is or has been found impersonating or procuring impersonation by any person or resorting to any other irregular or improper means in connection with his / her candidature for selection or obtaining support of candidature by any means, such a candidate may in addition to rendering himself/ herself liable to criminal prosecution, will be liable to be debarred permanently from any examination or selection held by the Service Commissions in the country.

e) MEMORANDUM OF MARKS: Memorandum of Marks is issued on payment of Rs.25/- (Rupees Twenty Five Only) through crossed Indian Postal Order only drawn in favour of the Secretary, A.P. Public Service Commission, Hyderabad. Request for Memorandum of Marks from candidates, will be entertained within two months from the date of publication of the final selections. Such a request must necessarily be accompanied by a Xerox copy of the Hall-ticket. Request for revaluation or recounting will not be undertaken under any circumstances. Invalid, disqualified, ineligible candidates will not be issued any Memorandum of Marks and fees paid by such candidates, if any, will be forfeited to Government account, without any correspondence in this regard.

If any candidate fails to mark the Booklet Series, Roll Number etc., in the OMR Answer Sheet, the Commission reserves the right to invalidate such Answer Sheets as Answer Sheets are valued by Optical Mark Scanner. In case of rejection/ invalidation due to omission on the part of the candidate, the decision of the Commission is final and request for Memorandum of Marks in such cases will be intimated accordingly. No request for reconsideration of such rejected/invalidated cases will be entertained under any circumstances whatsoever.

PARA-12: COMMISSION’S DECISION TO BE FINAL:

The decision of the Commission in all aspects and all respects pertaining to the Application and its acceptance or rejection as the case may be, conduct of examination and at all consequent stages culminating in the selection or otherwise of any candidate shall be final in all respects and binding on all concerned, under the powers vested with it under Article 315 and 320 of the Constitution of India. Commission also reserves its right to alter and modify regarding time and conditions laid down in the notification for conducting the various stages up to selection, duly intimating details thereof to all concerned, as warranted by any unforeseen circumstances arising during the course of this process, or as deemed necessary by the Commission at any stage.

HYDERABAD,                     Sd/-
DATE: 30/07/2012               SECRETARY
ANNEXURE – I
NOTIFICATION NO. 19/2012
Breakup of provisional vacancies for Lecturers in Government Polytechnic Colleges
(Engineering and Non-Engineering) in A.P. Technical Education Service
(General Recruitment)

PC.NO.1: LECTURER IN CIVIL ENGINEERING

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*Additional vacancies added as per Orders, Dt. 06/09/2012

PC.NO.2: LECTURER IN MECHANICAL ENGINEERING

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*Additional vacancies added as per Orders, Dt. 06/09/2012

PC.NO.3: LECTURER IN ELECTRICAL & ELECTRONICS ENGINEERING

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*Additional vacancies added as per Orders, Dt. 06/09/2012

PC.NO.4: LECTURER IN ELECTRONICS & COMMUNICATION ENGINEERING

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*Additional vacancies added as per Orders, Dt. 06/09/2012
### PC.NO.5: LECTURER IN COMPUTER ENGINEERING

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*Additional vacancies added as per Orders, Dt. 06/09/2012*

### PC.NO.6: LECTURER IN TEXTILE TECHNOLOGY

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*Additional vacancies added as per Orders, Dt. 06/09/2012*

### PC.NO.7: LECTURER IN INFORMATION TECHNOLOGY

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### PC.NO.11: LECTURER IN ARCHITECTURAL ENGINEERING

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*Additional vacancies added as per Orders, Dt. 06/09/2012*

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*Additional vacancies added as per Orders, Dt. 06/09/2012*

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*Additional vacancies added as per Orders, Dt. 06/09/2012*

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*Post Code No. 21 added as per Orders, Dt. 06/09/2012*
ANNEXURE – II

Notification No. 19/2012

SCHEME AND SYLLABUS FOR THE POST OF LECTURERS IN GOVERNMENT POLYTECHNICS (ENGINEERING & NONENGINEERING) IN A.P. TECHNICAL EDUCATION SERVICE

SCHEME

| PART-A: Written (Objective Type) Examination: |  |
|---|---|---|---|
| Paper-1 | General Studies & Mental ability | 150 Marks. | 150 Qns. | 150 Minutes |
| Paper-2 | Concerned Subject | 300 Marks. | 150 Qns. | 150 Minutes |
| PART-B: ORAL TEST (Interview) | 50 Marks |
| Total | 500 Marks |

N.B: 1. The paper in concerned subject for Engineering streams is of Engineering Bachelor's degree standard.
2. The paper in the concerned subject for Non-Engineering streams is of P.G. Degree standard.
3. The Question papers will be in English only.

Name of the Subject

| 1) Civil Engineering | 11) Architectural Engineering |
| 2) Mechanical Engineering | 12) Garment Technology |
| 3) Electrical & Electronics Engineering | 13) Ceramic Technology |
| 4) Electronics & Communication Engineering | 14) Lithography |
| 5) Computer Engineering | 15) Tannery |
| 6) Textile Technology | 16) English |
| 7) Information Technology | 17) Mathematics |
| 8) Automobile Engineering | 18) Physics |
| 9) Footwear Technology | 19) Chemistry |
| 10) Packaging Technology | 20) Commercial & Computer Practice |
| 21) Mining Engineering |

SYLLABUS

GENERAL STUDIES AND MENTAL ABILITY

I. General Science – Contemporary developments in Science and Technology and their implications including matters of every day observation and experience, as may be expected of a well-educated person who has not made a special study of any scientific discipline.

II. Current events of national and international importance.

III. History of India – emphasis will be on broad general understanding of the subject in its social, economic, cultural and political aspects with a focus on AP Indian National Movement.

IV. World Geography and Geography of India with a focus on AP.

V. Indian polity and Economy – including the country’s political system- rural development – Planning and economic reforms in India.

VI. Mental ability – reasoning and inferences.

VII. DISASTER MANAGEMENT (Source: CBSE Publications)
1. Concepts in disaster management and vulnerability profile of India / State of A.P.
2. Earthquakes / Cyclones / Tsunami / Floods / Drought – causes and effects.
4. Mitigation strategies / Mitigation measures.
1. CIVIL ENGINEERING

01. ANALYSIS OF STRUCTURES:
Sending stresses and shear stresses in beams;
Deflection and slope of beams;
Combined bending and direct stresses; axially and eccentrically loaded columns;
Close-Coiled and open-coiled; helical springs under axial load and axial twist; carriage springs;
Analysis thin and thick cylinders; compound cylinders;
Analysis of statically determinate plane trusses; method of joints and method of sections.
Analysis of statically indeterminate beams; proposed canti-levers, fixed beams and continuous beams.
Influence lines and moving loads on beams and simple bridge trusses.

02. STRUCTURAL DESIGN:
Reinforced concrete, concrete technology, R.C.C. Design, working stress method and limit state method, Design of beams, Design of one-way and two-way slabs, design of axially loaded columns, design of continuous beams and slabs; Design of wall footings and isolated footings, combined footings, raft foundations, and retaining walls by limit state method, water tanks, Deck-slab and T-beam bridges by working stress method. Structural Steel – design of revetted and welded joints, design of tension members;
Compression members, simple and compound beams. Design of plate girders, crane girders and roof-trusses. Elements of pre-stressed concrete.

03. FLUID MECHANICS AND HYDRAULIC MACHINES:
Fluid properties; fluid static's; fluid-flow concepts; Laminar and turbulent flow; steady and unsteady-flow, uniform and non-uniform flow; Fundamental EQUATIONS; CONTINUITY EQUATION; Euler's equation of motion; Bernoulli's equation, Analysis of liquid jets; flow through orifices and mouth pieces; radial flow, flow along a curved path; Momentum equation and applications; Moment of Momentum equation. Dimensional analysis and similitude; Viscous flow-laminar flow through circular pipes; velocity distribution in laminar flow. Turbulent flow in pipes, velocity distribution in turbulent flow: Flow measurement – pressure moment, velocity measurement and discharge measurement, venturimeter, Orifice, meter, notches and weirs. Hydraulic machines; Turbines and pumps; basic equations; Orifice, performance, selection, specific speed.

04. WATER RESOURCES ENGINEERING:

05. SURVEYING:
Chain surveying; compass surveying, plane table surveying; leveling and contouring, Minor instruments; Areas and Volumes; Theodolite surveying and traversing; Tachometry; Curve ranging; setting out works. Principles and uses of triangulation, hydrographic surveying, Arial photogrammetry and photo interpretation, remote sensing and electromagnetic distance measurement.

06. GEO-TECHNICAL ENGINEERING:
Physical properties of soils; identification and classification of soils; permeability and seepage; consolidation; shearing strength of soil; stability of earth slopes; site investigation and sub soil exploration.
Stress distribution in soil; soil; compaction; lateral earth pressure and retaining walls; bearing capacity and shallow foundations; pile foundations; well foundations; Machine foundations.

07. TRANSPORTATION ENGINEERING:
Highway Engineering; classification of roads; highway alignment and surveys; geometric design of highways; elements of traffic engineering; highway materials and testing; elements of pavement design; construction and maintenance of earth gravel, W.B.M., bitumenous and concrete roads; highway drainage.
Railway Engineering; engineering surveys for a new railway route, gauge and gauge problem; track components; ballast; sleepers; rails anrrail fastenings; Station and station yards;
requirements and requirement for station yards; signaling and inter locking. Elements of cross drainage works; causeways; culverts; bridges.

08 ENVIRONMENTAL ENGINEERING:
Water supply engineering; sources of water supply, conveyance of water, distribution systems; quality of water; treatment of water; filtration; dis-infection; methods of water treatment. Sanitary engineering; sewerage and sewage disposal; house fittings; design of sewers; characteristics of sewage, primary and secondary treatment of sewage; methods of disposal of sewage.
2. MECHANICAL ENGINEERING

01. FLUID MECHANICS:
Fluid Properties, fluid statics, Kinematics and Dynamics, Euler’s equation, bernoulli’s energy equation, flow of ideal fluids, Viscous in compressible flows – laminar flow, boundary layer, basic features of turbulent flow, flow through pipes, fluid machinery, Specific speed and classification of fluid machines. Performance and operation of pumps, impulse and reaction turbines, velocity triangles and degree of reaction.

02. THERMO DYNAMICS:

03. MATERIAL SCIENCE:
Structure of metal and alloys, Binding in solids. Imperfections of metals and in crystals, fracture, creep, fatigue and corrosion. Phase Rule, phase transformation diagrams and lever rule.

04. ENGINEERING MECHANICS AND STRENGTH OF MATERIALS:
Equivalent force systems, free body concepts and equations of equilibrium, frictional forces. Kinematics and dynamics of rigid bodies. Stress and strain, elastic limit, yield point and ultimate stress, shear force and bending moment diagrams for beams. Calculation of stress slope and deflection in beams, theories of failure, torsion of circular shaft, thin cylinders, equivalent bending moment for solid and hollow shafts.

05. MANUFACTURING PROCESSES:

06. APPLIED THERMO DYNAMICS:

07. HEAT TRANSFER AND REFRIGERATION:
Modes of heat transfer, one dimensional steady and unsteady heat conduction convective heat transfer forced convection over flat plates and tubes, free convection over cylinders and flat plates radiative heat transfer-black and grey surfaces. Types of heat exchangers – heat exchanger performance LMTD and NTU methods vapor compression cycle analysis. COP; and its estimation vapor absorption refrigeration cycle properties of refrigerators.

08. MACHINE DESIGN:
Design for static and dynamic loading fatigue strength stress concentration, factor of safety designing of bolted, riveted and welded joints, hydro dynamic lubrication, journal and roller bearings design of spur and helical gears, clutches and breaks. Belt and rope drives Design of shafts, keys and couplings.

09. THEORY OF MACHINES:
Constrained motion, plane mechanisms, velocity acceleration analysis, Flywheel and their applications, Balancing of reciprocating and rotating masses cams and followers, Tooth profiles Types of gears Principles of gyroscope, vibration of free and forced one degree of freedom systems with and without damping, critical speed of shaft.

10. PRODUCTION ENGINEERING:
Metal cutting and machining types of chips, chip formation tool wear and tool life, machine ability single point and multi point cutting operations machining processes shaping, planning, turning, milling, grinding, hobbling and drilling operating unconventional machining processes – USM, EDM, ECM and LBM. Basic features of NC Machines tools linear and angular measurements, Comparators, limit gauges, screw and gear measurements.

11. INDUSTRIAL ENGINEERING AND MANAGEMENT:
Industrial organisations and plant layout production planning and control cost of manufacturing. Break even analysis. Time and motion study, basic linear programming and queing theory. PERT / CPM in production systems.
3. ELECTRICAL AND ELECTRONICS ENGINEERING

01. ELECTRIC CIRCUITS, FIELDS & MEASUREMENTS:


02. CONTROL SYSTEMS, COMPUTATION AND ELECTRONICS


03. ELECTRICAL MACHINES:


Special machines: Two phase servomotors – stepper motors – methods of operation – metadyne and amplidyne – operating characteristics and applications.

D.C. Machines and Transformers.

04. POWER SYSTEMS:

Generation: Methods of power generation – steam, hydro, nuclear, diesel – selection of site for each – general layout of each type – function of each component – economics of different types – base and peak load stations – pumped stations – simple calculations in hydro station design.


4. ELECTRONICS & COMMUNICATION ENGINEERING


5. COMPUTER ENGINEERING

01. Logic families, gates, flip-flops, Multiplexers, decoders, registers, counters, adder circuits, Boolean algebra, Combinational circuit design, minimisation, sequential circuit design, number systems, inter conversion, number representation, computer organisation, instruction formats, addressing modes, micro-programming, ALU organisation, multiplication and division algorithms, memory hierarchy, cache and associate memories, virtual memory, memory IC’s, I/O organisation schemes, interrupts, arbitration, DMA, IOP, micro processors, interfacing, pipeline, SIMD and MIMD organisations, proposition and predicate logic’s, methods of deduction, set theory, relations, functions, algebraic structures, lattices, recursion, combinatorics, graph theory, representation, path matrix, warshall’s algorithm, cyclic and bipartite graphs, planer graphs, Hamiltonian graph, chromatic number, trees, binary tree traversals, representation of expressions, spanning trees, breadth-first and depth-first algorithms, finite automation, pushdown automation, Turing machine, grammars, type 0, 1, 2, and 3, LL and LR grammars.

02. Algorithms, flow-charts, programming methodology, data structures, PASCAL, FORTRAN, COBAL and ‘C’ languages, theory of programming languages, file organisation, searching and sorting; methods, DBMS, database models, query languages, operating system, directory concept, processor scheduling, memory allocation, paging and segmentation, device management, deadlocks and prevention, concurrent processing, DOS and UNIX features, language processors, syntax and semantic analysis, code generation, optimisation, assemblers, loaders and linkers, algorithm design techniques, Computer networks, digital modulation techniques, modems, error detection and error correction, BISYNC and HDLC protocols, OSI model, network routing algorithms, LAN operation methods, Computer graphics, DDA algorithms, graphic primitives, 2-D transformations, graphic input devices, software engineering development life-cycle, system analysis, modular design, testing and validation, CASE tools, AI techniques, natural language understanding, learning, knowledge representation, expert systems, LISP, PROLOG.
6. TEXTILE TECHNOLOGY

I.
1. Introduction of Textile Fibres, their general properties physical and chemical and classification of Textile Fibres. Microscopic view of fibres.
2. Application of cotton fibre and Raw material, cultivation of cotton, common diseases and plant protection methods. Important varieties.

4. SPINNING:
   i) Methods of picking: manual and mechanical
   ii) Ginning: Objectives and methods
   iii) Mixing: Blending of different varieties, types of mixing, auto mixer, aeromixers.
   iv) Blow room line and various machines used in it. Concept of beating point and its use in spinning of different fibres.
   v) Lap defects and remedies
   vi) Calculations regarding beter speeds, lap weight, hank of lap, drafts and production.

CARDING: Objectives and principles of carding, functioning of carding machine. Types of carding machine. Calculations regarding carding machine, lap sliver study, waste control in carding, Tandem cards, Auto leveler, card sliver, lap feed and chute feed systems.

DRAW FRAME: Objects, Principles and various machines used in drawing process. Functions of draw frame machines. Different types of Drafting systems, weighing systems, Roller settings and draft distribution. Calculations regarding draw frame. Study of lapping and lapping machines.

COMBER: Objects, principles and different types of combing machines and calculations there of.

SPEED FRAME: Principles, objects and functions of speed frame. Working of speed frame and calculation regarding speed frames.

RING FRAME: Principles, objects and functioning of Ring Frame machines working of Ring Frame and calculations regard ring frame. Traveller, rings and other important parts of ring spinning frame. Drafting systems. Yarn defects – causes and remedies. Calculations regarding spinning.

DOUBLING: Objects and types of doubling. Features and two for one twisters. Manufacturing of sewing thread. Calculations regarding production with reference to various parameters of spinning. Open and spinning: Types and methods of open end spinning.


Calculations regarding all processes mentioned above.

II. WEAVING:


3) Principles of weaving process. Basic requirements of weaving loom and types of looms. Study of handlooms and plain powerlooms. Working of the mechanisms faults and remedies with references to the powerloom weaving and cloth production.


5) Fabric Structure: Principles of fabric structures. Different types of weaves and their construction. Drafting and peg plans according to weaves, Double Cloth, Dobby nd Jaquard designs.


8) Textile industry and management – introduction, concepts mill management – production, material, financial, marketing management. Feasibility study and Industrial safety.

9) Calculations regarding all processing mentioned above.
7. INFORMATION TECHNOLOGY

Digital Logic: Logic functions, Minimization, Design and synthesis of combinational and sequential circuits; Number representation and computer arithmetic (fixed and floating point).

Computer Organization and Architecture: Machine instructions and addressing modes, ALU and data-path, CPU control design, Memory interface, I/O interface (Interrupt and DMA mode), Instruction pipelining, Cache and main memory, Secondary storage.

Programming and Data Structures: Programming in C; Functions, Recursion, Parameter passing, Scope, Binding; Abstract data types, Arrays, Stacks, Queues, Linked Lists, Trees, Binary search trees, Binary heaps.

Algorithms: Analysis, Asymptotic notation, Notions of space and time complexity, Worst and average case analysis; Design: Greedy approach, Dynamic programming, Divide-and-conquer; Tree and graph traversals, Connected components, Spanning trees, Shortest paths; Hashing, Sorting, Searching. Asymptotic analysis (best, worst, average cases) of time and space, upper and lower bounds.

Operating System: Processes, Threads, Inter-process communication, Concurrency, Synchronization, Deadlock, CPU scheduling, Memory management and virtual memory, File systems, I/O systems, Protection and security.

Databases: ER-model, Relational model (relational algebra, tuple calculus), Database design (integrity constraints, normal forms), Query languages (SQL), File structures (sequential files, indexing, B and B+ trees), Transactions and concurrency control.

Information Systems and Software Engineering: information gathering, requirement and feasibility analysis, data flow diagrams, process specifications, input/output design, process life cycle, planning and managing the project, design, coding, testing, implementation, maintenance.

Data communications: ISO/OSI model, TCP/IP protocol architecture, data transmission, transmission media, encoding techniques, synchronous and synchronous transmissions, multiplexing, switching techniques, spread spectrum.

Computer Networks: ISO/OSI stack, LAN technologies (Ethernet, Token ring), Flow and error control techniques, Routing algorithms, Congestion control, TCP/UDP and sockets, IP(v4), Application layer protocols (icmp, dns, smtp, pop, ftp, http); Basic concepts of hubs, switches, gateways, and routers. Network security - basic concepts of public key and private key cryptography, digital signature, firewalls.

Web technologies: HTML, XML, basic concepts of client-server computing.
8. AUTO MOBILE ENGINEERING


9. FOOT WEAR TECHNOLOGY

1) Classification of foot wear, leather goods, Garments based on construction, utilization, style, function of foot wear comparison of leather articles and footwear with that are made of non leather.


4) Measurements – Foot drafting – draft length and girth – foot wear scales of different system – conversion from one system to other system.

5) Foot wear functions – Foot and footwear relations shoes boot- parts of shoe and foot wear – Last – Parts of lasts Function of last-Relation between last, shoe and foot leathers garments, sizes leather goods sizes – component – uses.


8) Knowledge of leather making – various operations involved in making leather. Classification of leather based on Raw material – types of tanning – type of finish – knowledge of defects in leather. Selection of leather for different use.


12) Seams – different types of seam utility – tools, machines used – working principal of various stitching machines – fixing of various fittings. Machines used, their working principle, specifications – tools used.

13) Clicking – Machines used – their working system – hand clicking tools used – A skiving – machines used – hand skiving – various types of lasting – machines used, their working system comparison of various systems – preparation of testing – sole – insole.

14) Bottom preparation, filling, selection of various materials. Attachment of sole to upper – different methods of moulding – machines used, specification – working system.

15) Finish – various operations involved as finishing of foot wear. Material used – Machines used – cares.

16) Costing and quality control: - Costing footwear, leather goods, and garments by different system, quality – importance.

Manufacture of various types of leather goods various operations involved – manufacture of Garment Selection of Raw materials – Method of making – costing.
01. Definition – Packaging criteria, appearance, protection, cost etc., - Organisation of packaging functions.

02. Role of colors and typography – Role of package shape – Product package relationship – Cost effectiveness – Cushioning design.

03. Properties and applications of paper, board and corrugated board – Metal and foils, glass and wood – Plastics and films – Adhesives and cushioning materials.

04. Introduction to moulding, thermoforming etc., - Varnishing, metallising, laser marking, electroless and electrolytic plating. 
Sealing: Dielectric heat-sealing, thermal sealing and different sealing equipment’s – Cushion manufacturing.

05. Aseptic packaging and biological aspects – Aerosol packaging: properties of propellants, valve, filling methods etc., - Different forms of plastics and laminate package.

06. Computer aided designing – Die designing, punching, laser die cutting – Cartooning and labeling systems.

07. Raw materials testing: Surface, physical and chemical tests, printibility test.

11. ARCHITECTURAL ENGINEERING


Building Construction: Foundations. Footings, Walls, Lintels, Carpentry & Joinery, Openings (doors & windows), Composite Masonry, Partition Walls, Staircases, Cladding, Sloping and flat roofs, Floorings, Structural steel work and Types of steel trusses

Architectural Drawing & Graphics: Importance of Scale, Different forms, Architectural representation of different objects, Solid geometry, Building Geometry – isometric, axonometric, etc., Types of Arches, Scioigraphy, Perspectives, Rendering, visualization skills and importance of free hand drawing.

Engineering Mechanics: Simple stress and strain, Types of stresses, elastic limit, modulus of elasticity, Bending moment and shear forces, Moment of inertia, Deflection, Buckling & Crushing failures, Stiendness ratio, Torsion, Design of RCC & Steel Structures.

Introduction of art and architecture: Importance of art, Development and exploration of art, Relationship between art and architecture, Role of an architect in society, relationship with other consultants, Technical knowledge and expertise, Evolution of Shelter forms.


Water supply and Sanitary Engineering: Sources of water supply, Quality of water, Treatment of water, Distribution system of water, Collection and Treatment of refuse, Sewage, Principles of drainage, plumbing and Sanitary fittings and fixtures, Roads & Pavements.


Sociology of Human settlements: Sociological aspects, Elements of society, Urbanization, Historic Evolution, Transportation and communication, Principles of ekistics.

Economics, Estimating and Costing: Introduction on economics, Micro and Macroeconomics, economic issues, Financing of a project, Quantity surveying and estimating (approximate and detailed) and rate analysis.

Town Planning: Town forms in urban planning and development processes, various levels of planning: national, regional, urban, rural, local etc., objectives of town planning, O-D surveys, F.S.I. planning of industrial and recreational areas, urban renewals, TCPO and Town planning organization in India.

Building Acoustics: Need to study acoustics, history of acoustics, generation, propagation, transmission of sound, characteristics of sound, sensibility of human ear, resonance, reverberation time, sabine’s formula, echoes, principles of acoustical design process and sound isolation.


Computer Applications: Hardware and Software requirements, Operating systems, Features of presentation package, drafting packages and benefits of Internet technology.
12. GARMENT TECHNOLOGY

Indian Embroidery, Indian Jewellery, Traditional Indian textiles

Embroidery of Kashmir, Sindh, Gujarat, Punjab, Haryana, Himachal pradesh, Bengal, Bihar, Uttar pradesh, Karnataka, Rajasthan, Orissa, Tamilnadu, Gold and Silver embroidery etc

Indian Jewellery – techniques in jewellery work, traditional ornaments-nose ornaments, foot ornaments, head ornaments, girdles, belts, armlets, neck ornaments, bangles etc

Traditional Indian textiles-Kalamkari,Pochampally, Paithani, Patola, Baluchari, Banaras brocades, Pabuji Par etc

DYEING AND PRINTING

Bleaching of Cotton, Wool, Silk, man-made fibers

Scouring, Singing, desizing

Chemical constitution and colour

Classification and types of dyes

Machinery used in dyeing

Methods and styles of printing

Dyeing and printing of cotton, wool, silk, polyester, acrylic, and other synthetic fibers

Chemistry of dyestuff intermediates

Pollution control- air pollution, water pollution, treatment of effluent water, disposal of solid waste

TEXTILE SCIENCE

Manufacture and properties of – cotton silk, wool polyester, nylon, acrylic, modacrylic, viscose rayon, cuprammonium rayon, cellouse acetate rayon, polypropylene, glass

Yarns – types, count, systems, measurement

Ecology and textiles – eco standards , textile process chemicals, toxicological considerations

Textile testing- identification of fibers stain tests solubility tests, fiber analysis, testing of fibers-fiber length, fiber fineness, twist, yarn strength, lea strength, etc., fabric testing – strength, abrasion resistance, air and water permeability, skew ness, etc

Weaving – Yarn calculations, weaving calculations Preparations for weaving, types of looms different types of weaves etc.,

Knitting, Braiding, Lace, felt, etc., methods of making fabric

Wet spinning, melt spinning, and dry spinning

Texturizing

Finishes – ammoniating mercerizing shrinking, stiffening, weighting, calendaring, glazing, schreinerizing, embossing, moireing, cireing, beetling, raising, napping, wrinkle, resistant finishes, soil repellent finishes, flame retardant finishes, mildew proof finishes etc.,

Detergents – fats and oils, surfactants and surface activity, soap manufacture, synthetic detergents, analysis of detergents

Textile terminology
CLOTHING

Basic stitches – rentering stitch, hemming, back stitch, quick overcasting, overcasting, deeper over casting, over handling, stooting stitch etc.,
Seams and seam finishes – plain, welt, flat fell, strap, slot, French, upholsterer’s, corded, lapped, imitation French, laced seams, top stitch seam, etc.,
Working of embroidery stitches
Methods of handling finishes – Casing, gathers, shirring, smocking, tucks, pleats, godets, darts, etc.,
Neck line finishes – combination facings, applying shaped facings to neckline with zipper, applying shaped facing to neckline and garment opening, applying bias facing, applying cording to faced neck line, application of single and double layer binding, decorative facings etc
Drafting and stitching of sleeves – cap sleeve, basic Bishop sleeve, exaggerated Bishop sleeve, Bell sleeve, puff sleeve, petal sleeve, lantern sleeve, cowl sleeve, wedding sleeve, Kimono sleeve, Dolmon sleeve, Raglan sleeve etc
Drafting and stitching of collars – shirt collar, shawl collar, mandarin collar, turtle neck collar, sailor collar, puritan collar etc
Drafting and stitching of pockets – patch, bound, in seam pockets etc
Drafting and stitching of yokes
Drafting and stitching of skirts
Underlying fabrics – linings, inter linings, interfacings, underlying
(preparation of material for cutting – preparation of woven and knitted fabrics for cutting
Handling of fabrics – velvet, velveteen, bonded, stretch, knit, lace, wash and wear, silk, laminated, napped, leather, jersey sheer fabrics etc
(pattern of pattern, shrinking, cutting, marking, selection of interfacing, basting, selection of thread and needle, stitch length, seam finishes, button holes, hems, linings, pressing etc.)
Pattern alterations – alterations to trousers, skirts, blouse, alterations based on figure irregularities etc
Care of fabrics – darning and patching, washing of different fabrics, dry cleaning – types of equipment used in dry cleaning, methods of dry cleaning, pressing of garments, pressing equipments etc
Dart manipulation

APPAREL MANUFACTURING, MARKETING AND MERCHANDISING

Cutting, production analysis – types of spreads, spreading equipment and tools, spreading methods analysis, cutting equipment, cutting methods analysis, types of marker and spreading materials, cost and quality principles governing markers, training cutting production personnel etc.
Fabric grading – grey state fabric grading, conventional system of grading, point system of grading, finished fabric grading
Defects – spinning defects, sizing defects, warp defects, filling defects, other weaving defects, bleaching and finishing defects, dyeing defects, printing defects, stains etc
Machinery used in apparel industry
Time and motion study
Quality control
Production systems
Pricing strategies
Marketing ethics
Product services
Marketing environment

FASHION DESIGNING

Principles of designing
Elements of design
Colour theory
Selection of apparel
Selection of accessories
Classification of fashion
Fashion terminology
Selection of fabric design
Illusion in designing
Works of Indian and international designers
Western fashions
Fashion trends in different periods
Display of garments
13. CERAMIC TECHNOLOGY

FUELS, FURNACES & PYROMETRY:

A. FUELS:

1. **Solid Fuels:** COAL: Coal formation theories, Mineral matter, Classification, handling and storage, washing, general properties, Calorific value, grind ability etc.

2. **Gaseous Fuels:** Various gaseous fuels like Producer gas, Water gas, Coke Oven gas, other gaseous fuels like blast furnace gas, LPG, CNG, Natural gas – Properties like composition, calorific value.


4. **Properties:** Analysis of coal, gaseous fuels, liquid fuels.

B. FURNACES:


2. **Heat Transfer:** Heat transfer to charge by conduction, convection and radiation, flow of heat through furnace walls, heat losses, heat balancing, heat recovery – recuperators and regenerators.

3. **Types of furnaces:** Various types of furnaces and kilns used in ceramic industries

C. PYROMETRY:


CERAMIC SCIENCE

1. **CRYSTAL CHEMISTRY:** Ionic bond with examples – Potential energy curve-bond strength – Lattice energy – Covalent Bond – Atomic and molecular orbitals, hybridization – Metallic bond – Vanderwall’s bond – Hydrogen bond, Mixed bond. Relation to bond vis-à-vis melting point, hardness, electrical and thermal properties – Crystalline defects; Point defects, line defects.

2. **PHASE EQUALIBRIA AND PHASE DIAGRAMS:** Gibb’s rule and its interpretation; condensed system – One component system – Binary diagrams – Lever rule – Familiarity with SiO₂ – Na₂O, CaO – Al₂O₃, SiO₂ – Al₂O₃ – Ternary phase diagrams - Na₂O, CaO - SiO₂, CaO - Al₂O₃, SiO₂, MgO – CaO – SiO₂.


5. **OPTICAL PROPERTIES:** Reflection and refraction – Scattering and opacity, absorption and radiation – Ionic colour in vitreous systems – Colloidal colours – Carbon – Sulphur

6. **CHEMICAL PROPERTIES:** Surface chemistry of vitreous materials – attack of water, alkalies and acids, electrode glasses, durability of glazes and enamels.

GLASS TECHNOLOGY

INTRODUCTION: Glass industry in India – common uses – import and export of glass, present and future status.

PREPARATION OF GLASS BATCH: Glass composition – melting and fabrication, characteristics, properties and cost; composition range.

MAJOR INGREDIENTS: Sand, Limestone, Dolomite, Soda ash, Feldspar, Nepheline syenate etc.

MINOR INGREDIENTS: Melting accelerators, Refining agents, docoulourisers.

CULLET: Cullet and its use- BATCH calculations


FABRICATION PROCESSES: Conditions of glass; feeding; blowing and pressing – effect of variations in composition on the working characteristics

ANNEALING & TEMPERING: Release of stress, annealing constant, determination of annealing schedules for slabs, continuous plate containers, tempering.

TESTING & QUALITY CONTROL: Raw materials; Sieve analysis; purity, batch analysis, density, composition and homogeneity, SQS chart, softening point and thermal expansion. Defects in Glass; seeds and blisters, cords, striae, strain and stones, methods of testing, sources of trouble and their elimination. Fabrication defects; various defects of fabrication. Testing of container; weight and capacity, flat glass.


BATCH PREPARATION: Handling, mixing and charging of raw materials.


POT MELTING PRACTICE: Types of glasses suitable for pot melting, ports and pot furnaces.


ENAMELS

WHITEWARE AND HEAVY CLAYWARE


CHANGES DURING FIRING: Thermal decomposition – changes in ceramic body – sintering – microstructure


REFRACTORIES

CLASSIFICATION: Classification of Refractories – Acid - Basic – Neutral – Special Refractories


REFRACTORY INDUSTRY: Status and scope of Indian Refractory industry – Lay out of modern Refractory plant.


CEMENT TECHNOLOGY

CEMENT INDUSTRY: Indian and A.P. scenario – Large – medium – small scale units.


SPECIAL CEMENTS: Rapid setting cement, Pozzolona, Slag cement etc.
SPECIAL CERAMIC MATERIALS


SEMI CONDUCTORS: Germanium – Silicon – Gallium – Antimonide – Silicon carbide etc.


NUCLEAR CERAMICS: Methods of production and properties – Uranium Oxide; Uranium carbide, Thorium Oxide; Beryllium Oxide etc.
UNIT-1

Principles of different printing systems – Suitability of each process for various printing jobs – Plate making of Offset, Gravure, Flexography and screen printing – Ink transfer methods and impression in all printing process and proofing methods – Lithography plate surface chemistry – Quality control devices in plate making process – Trouble shooting – Care and storage of offset plates before and after printing.

UNIT-2


UNIT-3


UNIT-4

15. TANNERY ENGINEERING (LEATHER TECHNOLOGY)

A. Skin Proteins and Pre-tannages


3. Chemistry and Principle of different pretanning processes like soaking, liming, deliming, bating and pickling. Different methods of pretanning processes as applied to light, heavy and industrial leathers.

B. Theory of tannages


3. Chemistry and mechanism of Aluminium, Zirconium, titanium, silicate and Phosphate tannages.


C. Leather auxiliaries and post tanning Operations
1) Chemistry of neutralization and bleaching processes.


4) Classification of retanning agents and their application.


D. Practice of Leather Manufacture – i
1) Principles and practices involved in the manufacture of following types of leathers:- E.I. tanning of kips, buffcalf, cowcalf and Goat and Sheep skins. – Vegetable tanned sole leather, Chrome sole leather. Sole leather with improved properties. – Picking band leathers and pickers. – Digressing of E.I. Leathers into different finished leathers such as semichrome glazed kid, lining leathers, ----- leathers and diaphragm leathers. – Kattai and Bunwar leathers. – Specialty leathers for mountaineering shoes, high altitude shoes and pilot gloves.

2) Role of Machinery in Leather Processing.

A. Practice of Leather Manufacture – II
1) Processes and principles involved in manufacture of following types of leather processing of Wetblue leathers – Full Chrome Upper leathers – Upholstery leather Lining leathers – Harness, belting and Saddlery leathers. – Football, Hockey ball, Cricket ball and other sports goods leathers – Chamois leather Fashion garment Leather – Utility glove leathers.

2) Principle methods and mechanism of drying of leathers.

B. material Testing & Quality Control
1) Principles of analytical methods employed of water, chemical agents used in soaking, liming, deliming, bating, pickling. Analysis of liquors of beamhouse process, vegetable tanning extracts, spent tan liquors, chrome extracts – zirconi and aluminium tanning salts.
Formaldehyde oils and fats – Fatliquor and other auxiliaries. Estimation of Epsom salt and glucose.

2) Instrumental methods of analysis using potentiometry, spectrophotometry chromatography, ion exchange resins, colorimetry.

3) Analysis of vegetable and mineral tanned leathers- Determination of PCP at azo dyes, (Aryl amine based) in leather.

4) Principles and methods employed in physical testing of leathers.

5) Standards and quality control.

C. Leather Product Technology

1) Footwear:- (a) Anatomy of human feet, foot comfort, foot care and their relationship to footwear. Foot and last measurements Shoe sizing and fitting.
(b) Materials used of footwear – Leather and non-leather materials for upper, -- and components.

(c) Shoe design and pattern making

(d) Grading clicking and closing – skiving – stitching – lasting, sole attachment – bending and edge treatments.

(e) Construction of cemented and welted shoes machines used.

2) Leather goods and garments:- Classification – selection of materials – modern methods of construction and machinery – Hand tools and grinderies, zips, linings and fittings – standardization quality control and inventory control.

D. Organisation and Management of Leather manufacture

1 Livestock population – availability of hides and skins – marketing of hides/skirt

2. Location, lay-out and selection of machinery for tanneries manufacturing different types of leathers – estimates of investment, costing and feasibility.


5. Type of tannery effluents- characteristic – Different methods of effluent disposal primary and secondary systems – standards and specifications of various type of disposal – soil waste disposal.

16. ENGLISH

I. Writers and Texts

1) William Shakespeare  Hamlet, Tempest
2) John Milton   Paradise Lost-Book 1 and 9
3) William Wordsworth  “Immortality Ode”, Tintern Abbey
4) John Keats   “Ode to a Nightingale”, “To Autumn”
5) Robert Browning “My Last Duchess”, “The Last Ride Together”
6) Charles Dickens David Copperfield
8) George Herbert  Saint Joan
9) Virginia Woolf  “A Room of One’s Own”
10) Samuel Beckett  Waiting for Godot
11) William Golding Lord of the Flies
12) Robert Frost  “Home Burial”, “The Road Not Taken”
13) Eugene O’Neill The Hairy Ape
14) Toni Morrison Beloved
15) Mulk Raj Anand  Untouchable
16) AK Ramanujan  “Love Poem for a Wife”, “Small-Scale Reflections on a Great House”
17) Girish Karnad Hayavadana
18) Salman Rushdie Midnight’s Children
19) Chinua Achebe Things Fall Apart
20) Margaret Atwood Edible Woman
21) AD Hope  “Australia”, “Crossing the Frontier”
22) Bessie Head A Question of Power

II. English Language Teaching

1) ELT in India : (History and status of English in India; English as Second Language, English as Foreign Language, and English as Global Language).
2) Methods and Approaches : (Grammar Translation method, Direct method, Audio-Lingual method; Structural approach, Communicative language teaching)
3) Teaching of Language Skills : (Teaching of Listening, Speaking, Reading, and Writing Skills; Teaching of Grammar and Functional English; Teaching of Vocabulary; Classroom techniques; Use of authentic materials)
4) Testing and Evaluation : (Principles, Types, Objectives of testing and evaluation)
5) Phonetics and Phonology; Syntax and Structure.
I. Real Analysis
Finite, countable and uncountable sets – Real Number system \( \mathbb{R} \) – infimum and supremum of a subset of \( \mathbb{R} \) – Bolzano – Weierstrass theorem.
Sequences, convergence, limit superior and limit inferior of sequences, sub sequences, Heine Borel Theorem.
Infinite series – Tests of convergence.
Continuity and uniform continuity of real valued functions of real variable. Monotonic functions and functions of bounded variation.
Differentiability and mean value theorems.
Riemann integrability.
Sequences and Series of functions.

II. Metric Spaces
Metric spaces – completeness, compactness and connectedness – continuity and uniform continuity of functions from one metric space into another.
Topological spaces – base and subbase – continuous function.

III. Elementary Number Theory
Primes and composite numbers – Fundamental Theorem of arithmetic – divisibility – congruences – Fermat’s theorem – Wilson’s Theorem – Euler’s \( \varphi \) - function.

IV. Group Theory
Groups, subgroups, normal subgroups – quotient groups – homomorphisms and isomorphism theorems – permutation groups, cyclic groups, Cayley’s theorem. Sylow’s theorems and their applications.

V. Ring Theory

VI. Vector Spaces

VII. Matrix Theory
Linear transformations – Rank and nullity – change of bases.

VIII. Complex Analysis
Algebra of complex numbers – the complex plane – Complex functions and their Analyticity – Cauchy-Riemann equations – Mobius transformations.
Power Series.
Complex Integration – Cauchy’s theorem – Morera’s Theorem – Cauchy’s integral formula – Liouville’s theorem – Maximum modules principle – Schwarz’s lemma – Taylor’s series – Laurents series.
Calculus of residues and evaluation of integrals.

IX. Ordinary Differential Equation
Ordinary Differential Equation (ODE) of first order and first degree – Different methods of solving them – Exact Differential equations and integrating factors.
ODE of first order and higher degree – equations solvable for \( p \), \( x \) and \( y \) – Clairaut’s equations – Singular Solutions.
Linear differential equations with constant coefficients and variable coefficients – variation of parameters.

X. Partial Differential Equations
Formation of differential equations (PDE) – Lagrange and Charpit methods for solving first order – PDE’s – Cauchy problem for first order PDE’s Classification of second order PDE’s – General solution of higher order PDE’s with constant coefficients.
I. Mathematical Methods of Physics


Data interpretation and analysis. Precision and accuracy. Error analysis, propagation of errors. Least squares fitting, Linear and non-linear curve fitting and Chi-Square Test.

II. Classical Mechanics


III. Electromagnetic Theory


IV. Quantum Mechanics


V. Thermodynamics and Statistical Physics


VI. Electronics


VII. Atomic & Molecular Physics


VIII. Condensed Matter Physics


IX. Nuclear and Particle Physics

19. CHEMISTRY

INORGANIC CHEMISTRY

1. Atomic structure and chemical bonding – structure and bonding in homo and hetero nuclear molecules. Applications of VSEPR, Valence Bond and Molecular orbital theories in explaining the structures of simple molecules.


5. Metal complexes - EAN rule – structure and bonding of metal carbonyls of Mn, Fe, Co and Ni – Metal nitrosyls – structure and bonding.


7. Metal clusters – factors favoring M-M bonds – Structure and bonding in \( \text{Re}_2\text{Cl}_8^{2-}, \text{Mo}_6\text{Cl}_{18}^{4-}, \text{Nb}_6\text{X}_{12}^{2-}, \text{Re}_2\text{Cl}_9 \) and \( \text{Re}_3\text{Cl}_{12}^{32} \).


9) Analytical chemistry – chromatography – general principles involved in separations by paper, thin layer and column chromatography – GC and HPLC.

Physical Chemistry

1. Thermodynamics


Multicomponent phase equilibrium: Vapour pressure lowering, freezing point depression and boiling point elevation

2. Statistical Thermodynamics


The entropy of a monatomic ideal gas. The Sackur-Tetrode equation derivation. Mean translational and vibrational energies.

3. Electrochemistry

Electrochemical Cells:


Concept of ion association – Bjerrum theory of ion association (elementary treatment) - ion association constant – Debye-Hückel-Bjerrum equation.

4. Quantum Chemistry

Black body radiation-Planck’s concept of quantization-Planck’s equation, average energy of an oscillator (derivation not required). Wave particle duality and uncertain principle-significance of these for microscopic entities. Emergence of quantum mechanics. Wave mechanics and Schrödinger wave equation.


Particle in a box one dimensional and three dimensional. Plots of and . Degeneracy of energy levels. Comparison of classical and quantum mechanical particles. Calculations using wave functions of the particle in a box-orthogonality, measurability of energy, position and momentum, average values and probabilities. Application to the spectra of conjugated molecules.

Cartesian, Polar and spherical polar coordinates and their interrelations.

Schrödinger equation for the hydrogen atom- separation into three equations. Hydrogen like wave functions. Radial and angular functions. Quantum numbers n, l and m and their importance. The radial distribution functions. Hydrogen like orbitals and their representation.

Many electron systems. Approximate methods. The variation method-variation theorem and its proof. Trial variation function and variation integral. Examples of variational calculations. Paricle
Bonding in molecules. Molecular orbital theory-basic ideas. Construction of MOs by LCAO, $H_2^+$ ion. The variationan integral for $H_2^+$ ion. Detailed calculation of Wave functions and energies for the bonding and antibonding MOs. Physical picture of bonding and antibonding wave functions. Energy diagram. The MO and VB wave functions for $H_2$ molecule and their comparision

5. Chemical Kinetics

Factors affecting reaction rates in solution. Diffusion controlled reactions. Influence of dielectric constant and ionic strength on ion-ion, ion-dipole and dipole-dipole reactions. Primary and secondary salt effects. Kinetic isotope effects: Primary and secondary isotope effects. Solvent isotope effects.


6. Photochemistry

Photochemical primary processes. Types of photochemical reactions- electron transfer, photodissociation, addition, abstraction, oxidation and isomerization reactions with examples.

7. Solid state chemistry

Magnetic properties of solids- classification of magnetic materials. Magnetic susceptibility, Langevin diamagnetism, Weiss theory of paramagnetism

Iorganic Chemistry

1) IUPAC nomenclature of organic molecules including structural, positional, functional, regio- and stereoisomers.

methods of configuration determination of E,Z isomers. Determination of configuration in aldoximes and ketoximes.

3) Nature of Bonding in Organic Molecules and Aromaticity, Delocalized chemical bonding-conjugation, cross conjugation, resonance, hyperconjugation, tautomerism, Hückle's rule and the concept of aromaticity, aromaticity in benzenoid and non-benzenoid compounds, alternant and non-alternant hydrocarbons, metalloccenes- Ferrocene, Azulenes, Fulvenes, Annulenes, anti-aromaticity, pseudo-aromaticity, homo-aromaticity.


6) Importance of heterocyclic compounds as drugs. Nomenclature of heterocyclic systems based on ring size, number and nature of hetero atoms. Synthesis and reactivity of pyrrole, furan, thiophene, pyridine, indole, benzofuran, benzothiophene, quinoline, isoquinoline.

7) Alkaloids and terpenoids- Importance of natural products as drugs. Isolation of natural products by steam distillation, solvent extraction and chemical methods. Structure determination and synthesis of papaverine, nicotine and quinine-General methods in the structure determination of terpenes. Isoprene rule, structure determination and synthesis of α-terpeniol and camphor.

8) Organic Photochemistry, Photochemical energy, Frank-Condon principles, Jablonski diagram, singlet and triplet states, dissipation of photochemical energy, photosensitization, quenching, quantum efficiency and quantum yield. Photochemistry of carbonyl compounds - n* and * transitions. Norrish type-I and Norrish type-II cleavages. Paterno-Buchi reactions, photoreduction, photochemistry of enones - hydrogen abstraction, rearrangements of - unsaturated ketones and cyclohexadienones, photochemistry of p-benzoquinones. Dienes - photochemistry of 1,3-butadienes, (2+2) additions leading to cage structures, photochemistry of cyclohexadienes, photochemistry of aromatic compounds, excited state of benzene and its 1,2-, 1,4- additions

9) Pericyclic Reactions Molecular orbital symmetry, Frontier orbitals of ethylene, 1,3 butadiene, 1,3,5 hexatriene and allyl system. Classification of pericyclic reactions. Woodward - Hoffmann correlation diagrams. FMO and PMO (Mobius Huckel) approaches. Electrocyclic reactions-Conrotatory and disrotatory. 4n, 4n+2 and allyl systems. Cycloaditions-antarafacial and suprafacial additions; 4n and 4n+2 systems, 2+2 addition of ketene, 1,3 dipolar cycloadditions Sigmatropic rearrangements - Suprafacial and antarafacial shifts of H, Sigmatropic shifts involving carbon moieties, 3,3 and 5,5 sigmatropic rearrangements.

20. COMMERCIAL AND COMPUTER PRACTICE
(To teach Commerce and English Type writing & Shorthand)

01. FINANCIAL MANAGEMENT:
Corporation Finance – Economic and Managerial Aspects – Finance Education.
Internal Financial Control – Ratio Analysis – Break-even Analysis – Sources and uses of funds statements.

02. INDUSTRIAL ORGANISATION:
Concepts of Industry, Firm and Plant.
State and Industry – Operational Control over Private Industry.

03. LABOUR ECONOMICS AND INDUSTRIAL RELATIONS:
Labour in Industrial Society – Man Power Problems of under developed countries.
Economics of the Labour Market – Factors affecting supply and demand for labour – Concepts of full employment, unemployment – Different types of unemployment – Causes – effects and remedial measures, labour mobility – Absenteeism and turnover.
Tripartite bodies in Industrial Relations.

04. MANAGEMENT:
Planning – Business Objectives – Social responsibilities of business.
Authority, Power, Influence and the art of delegation. Span of Supervision.
Line and Staff relationships.
Bases and problems of departmentation.
Centralisation and Decentralisation.
Bureaucracy – Committee Management.
Top management functions and the role of the Board.
Control functions in organisations.
Group dynamics.
21. MINING ENGINEERING

1. GEOLOGY: Structural Geology: Definition and scope. Recognition of faults, folds, joints, unconfirmaties etc., Primary and induced structures, their importance in Mining, Bedding, Liniation, foliation, fracture, Cleat etc., field Geology; importance and scope of filed Geology, field techniques, geological mapping. Use of survey equipment.


4. EXPLOSIVES AND BLASTING: Classification, types and use of explosives storage and transport. Blasting techniques in UG and open cost mines.

5. SUPPORTS: Objectives, limitations of mine supports, Types of mine supports and systematic timbering.


7. METAL MINING: Scope and limitations of U/G mining methods, Classification of U/G metal mining systems and their applications in different conditions.


10. MINE ENVIRONMENTAL ENGINEERING: Mine air and environment. Natural and mechanical ventilation, Types, design variables, selection, installation and maintenance. Mine fires, explosions and inundations, Rescue and recovery.

11. MINE LEGISLATION AND SAFETY: Regulations pertaining to conservation’s, exploitation of mineral deposits. Safety welfare and hygiene of mine workers.
ANNEXURE-III

LIST OF SCHEDULED CASTES
(Definition 28 of General Rule - 2)

SCHEDULE - I

(Substituted with effect from 27-07-1977 through G.O.Ms.No. 838, G.A.(Services-D) Department, dated 15/12/1977)

<table>
<thead>
<tr>
<th>No.</th>
<th>Schedule Name</th>
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<tbody>
<tr>
<td>1</td>
<td>Adi Andhra</td>
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<td>Adi Dravida</td>
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<td>Bavuri</td>
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<td>9</td>
<td>Beda Jangam, Budga Jangam (In Districts of Hyderabad, Rangareddy, Mahaboobnagar, Adilabad, Nizamabad, Medak, Karimnagar, Warangal, Khammam and Nalgonda)*</td>
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<td>Bindla</td>
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<td>11</td>
<td>Byagara, Byagari*</td>
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<td>12</td>
<td>Chachati</td>
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<td>13</td>
<td>Chalavadi</td>
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<td>14</td>
<td>Cham, Mochi, Muchi, Chamar-Ravidas, Chamar-Rohidas*</td>
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<td>Chambhar</td>
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<td>Dakkal, Dokkalwar</td>
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<td>Dom, Dombara, Paidi, Pano</td>
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<td>21</td>
<td>Ellamalwar, Yellammalawandlu</td>
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<td>22</td>
<td>Ghasi, Haddi, Relli, Chachandi</td>
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<td>23</td>
<td>Godagali, Godagula(in the Districts of Srikakulam, Vizianagaram &amp; Vishakapatnam) *</td>
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<td>Mala, Mala Ayawaru *</td>
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<td>51</td>
<td>Paky, Moti, Thoti</td>
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<td>(Omitted)*</td>
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<td>53</td>
<td>Pamidi</td>
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<td>54</td>
<td>Panchama, Pariah</td>
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<td>55</td>
<td>Relli</td>
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<td>56</td>
<td>Samagara</td>
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</table>
57 Samban
58 Sapru
59 Sindholu, Chindollu
60 Yatala (Srikakulam Dist. Only) Memo No. 8183/CV-1/2006-10 SW (CV-I) Dept., Dt. 31/03/2008
61 Valluvan * (Chittoor and Nellore Dist. Only) Memo No. 8183/CV-1/2006-10 SW (CV-I) Dept., Dt. 31/03/2008

* As for the Constitution (Scheduled Caste) orders (Second Amendment) Act 2002, Act No. 61 of 2002

LIST OF SCHEDULED TRIBES

1. Andh, Sadhu Andh *
2. Bagata
3. Bhill
4. Chanchu (Chenchwar omitted) *
5. Gadabas, Boda Gadaba, Gutob Gadaba, Kallayi Gadaba, Parangi Gadaba, Kathera Gadaba, Kapu Gadaba *
6. Gond, Naikpod, Rajgond, Koitur *
7. Goudu (in the Agency tracts)
8. Hill Reddi
9. Jatapus
10. Kammara
11. Kattunayakan
12. Kolam, Kolawar *
13. Konda Dhoras, Kubi *
14. Konda Kapus
15. Konda Reddis
16. Kondhs, Kodi, Kodhu, Desaya Kondhs, Dongria Kondhs, Kuttiya Konds, Tikiria Khondhs, Yenity Khondhs, Kuvinga *
17. Kotia, Benthio Oriya, Bartika, Dulia, Holva, Sanrona, Sidhapaiko (Dhulia, Paiko, Putiya-omitted *)
18. Koya, Doli Koya, Gutta Koya, Kammara Koya, Musara Koya, Oddi Koya, Pattidi Koya, Rajah, Rasha Koya, Lingadhari Koya (Ordinary), Kottu Koya, Bhine Koya, Raj Koya (Goud-omitted *)
19. Kulia
20. Malis (excluding Adilabad, Hyderabad, Karimnagar, Khammam, Mahabubnagar, Medak, Nalgonda, Nizamabad and Warangal District)
21. Manna Dhora
22. Nayaks (in the Agency tracts)
23. Mukha Dhora, Nooka Dhora
24. Pardhan
25. Porja, Parangi Perja
26. Reddi Dhoras
27. Rona, Rena
28. Savaras, Kapu Savaras, Maliya Savaras, Khutto Savaras
29. Sugalis, Lambadis, Banjara *
30. Thoti (in Adilabad, Hyderabad, Karimnagar, Khammam, Mahabubnagar, Medak, Nalgonda, Nizamabad and Warangal Districts)
31. Valmiki (in the Scheduled Areas of Vishakapatnam, Srikakulam, Vizianagaram, East Godavari and West Godavari Districts *)
32. Yenadis, Chella Yenadi, Kappala Yenadi, Manchi Yenadi, Reddi Yenadi *
33. Yerukulas, Koracha, Dabba Yerukula, Kunchapuri Yerukula, Uppu Yerukula *
34. Nakkala Kurivikaran (Nakkala – A.P. Gazette, Part – III (B) Central Acts ordinance and Regulations Issue No. 05 Dt. 02/10/2003 )
35. Dhulia, Paiko, Putiya (in the districts of Vishakapatnam, Vizianagaram *)

* As for the Scheduled Castes and Scheduled Tribes Orders (Amendment) Act 2002, Act No. 10 of 2003
LIST OF SOCIALLY AND EDUCATIONALLY BACKWARD CLASSES
(Amended from time to time as on 31/08/2007)

GROUP-A
Aboriginal Tribes, Vimuktha Jathis, Nomadic and Semi Nomadic Tribes etc.,


2. Balasanthu, Bahrupi
3. Bandara
4. Budabukkala
5. Rajaka (Chakali Vannar)
7. Dommara
8. Gangiredlawaru
9. Jangam (whose traditional occupation is begging)
10. Jogi
11. Katipapala
12. Korcha
13. Lambada or Banjara in Telangana Area (deleted and included in S.T. list vide G.O.Ms.No. 149, SW, dated 3/5/1978)
14. Medari or Mahendra
15. Mondivarlu, Mondibanda, Banda
17. Nakka (Deleted vide G.O. Ms. No. 21, BCW(C2) Dept., Dt. 20/06/2011)
18. Vamsha Raj (amended vide G.O.Ms.No. 27, BCW(M1) Department, dated 23/06/1995 deleting the Original name Pitchiguntla)
19. Pamala
20. Pardyhi (Mirshikari)
21. Pambala
24. Valmiki boya (Boya, Bedar, Kirtaka, Nishadi, Yellapi, Pedda Boya) Talayar and Chunduvallu (G.O.Ms. No. 124, SW, Dt. 24.06.85) Yellapi and Yellapu are one and the same amended vide G.O. Ms. No. 61, BCW(M1 Dept., D. 05.12.1996)
25. Yerukalas in Telangana area (deleted and included in the list of S.Ts)
26. Gudala
27. Kanjara - Bhatta
28. Kalinga (Kinthalala deleted vide G.O.Ms. No. 53, SW, Dt. 07.03.1980)
29. Kepmare or Reddika
30. Mondipatta
31. Nokkar
32. Panki Muggula
33. Yata
34. Chopemari
35. Kaikadi
36. Josphandiwalas
37. Oddie (Oddiliu, Vaddi, Vaddelu)
38. Mundala (Govt. Memo No. 40-VI/70-1, Edn., D. 10.02.1972)
40. Kunapuli (Govt. Memo No. 1279/P1/74-10, E&SW, D. 03.08.1975)
41. Patra (included in G.O. Ms. No. 8, BCW(C2) Dept., D. 28.08.2006)
42. kurakula of Srikakulam, Vizianagaram and Visakhapatnam Districts only. Included vide in G.O.MS.No. 26 BC W (C2) Dept., D. 4/07/08
43. Pondara of Srikakulam, Vizianagaram, and Visakhapatnam Districts only. Included vide G.O.MS.No. 28 BC W (C2) Dept., D. 4/07/08
44. Samanthula, Samantha, soutina, Sauntia of Srikakulam District only. Included vide G.O.MS.No. 29 BC W (C2) Dept., D. 4/07/08
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45. pala-Ekari, Ekila, Vyakula, Ekiri, Nayanivarau, Palegaru, Tolagari, Kaval of Chittor, Cuddapah, Kurnool, Anantapur, Nellore, Hyderabad and Rangareddy Districts only. Included Vide G.O. MS. No. 23 B.C. W (C2) Dept., Dt. 4/07/08
48. Gotrala, Included vide G.O.Ms.No. 7 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to Telangana Region only.
49. Kasikapadi / Kasikapudi, Included vide G.O.Ms.No. 8 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to Hyderabad, Rangareddy, Nizamabad, Mahaboobnagar and Adilabad Districts of Telangana Region only.
50. Siddula, Included vide G.O.Ms.No. 9 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to Telangana Region only.
53. Asadula / Asadula, included vide G.O. Ms. No. 13, Backward Classes Welfare (C2) Dept., Dt. 27/05/2011. The area of operation shall be confined to East Godavari and West Godavari Districts only.
54. Keuta/Kevedu/Keviti, included vide G.O. Ms. No. 15, Backward Classes Welfare (C2) Dept., Dt. 27/05/2011. The area of operation shall be confined to Srikakulam District only.

GROUP – B (Vocational)

1. Achukatlavandlu in the Districts of Visakhapatnam and Guntur confined to Hindus only as amended vide G.O. Ms. No. 8, BCW(C2) Dept., Dt. 29.03.2000
3. Devanga
5. Dudekula, Laddaf, Pinjari or Noorbash
7. Jandra
8. Kummarra or Kulala, Salivahana (Salivahana added vide G.O. Ms. No. 28, BCW(M1) Dept., 24.06.1995)
9. Karikalabakhthulu, Kaikolan or Kaikala (Sengundam or Sengunther)
10. Karnabakhthulu
11. Kuruba or Kuruma
12. Nagavaddilu
13. Neelakanthi
14. Patkar (Khatri)
15. Perika (Perikabalija, Puragirkshatriya)
16. Nessi or Kurni
17. Padmasali (Sali, Salivan, Pattusali, Senapathulu, Thogata Sali)
18. Srisayana ((sagidi)- deleted and added to Sl.No. 4 of Group-B)
19. Swakulasali
20. Thogata, Thogati or Thogataveerakshtriya
21. Viswabrahmin, Viswakarma (Ausula or Kamsali, Kammari, Kanchari Vadla or Vadra or Vadrangi and Silips) (Viswakarma added vide G.O. Ms. No. 59 BCW(M1) Dept., Dt. 06.12.1995)
23. Lodhi, Lodhi, Lodha of Hyderabad, Rangareddy, Khammam and Adilabad Districts only. Included in Vide G.O.MS.No. 22 BC W (C2) Dept., Dt. 4/07/08
25. Are Marathi, Maratha(Non-Brahmins), Arakalies and Surabhi Natakavalavullu. (included in vide G.O.Ms. No. 40, B.C.W(C2) Dept., Dt.07/08/2008)
27. Budubunjala/Bhunjwa/Bhadbhunja, included vide G.O.Ms. No. 11, Backward Classes Welfare (C2) Dept., Dt. 27/05/2011. The area of operation shall be confined to Hyderabad and Ranga Reddy District only.
28. Gudia/Gudiya, included vide G.O.Ms. No. 14, Backward Classes Welfare (C2) Dept., Dt. 27/05/2011. The area of operation shall be confined to Srikakulam, Vizianagaram and Vishakhapatnam, district only.

GROUP – C
Scheduled Castes converts to Christianity and their progeny

GROUP – D (Other Classes)

1. Agaru
2. Are-Katika, Katika, Are-Suryavamsi(Are-Suryavamsi added vide G.O. Ms. No. 39, B.C.W(C2) Dept., Dt. 7/08/08)
3. Atagara
4. Bhatraju
5. Chippolu (Mera)
6. Gavara
7. Godaba
8. Hatkar
9. Jakkala
10. Jingar
11. Kandra
12. Kosthi
13. Kachi
15. Krishanabalija (Dasari, Bukka)
16. Kopulavelama
17. Mathura
18. Mali (Bare, Barai, Marar and Tamboli of all Districts of Telangana Region added as synonyms vide G.O. Ms. No. 3, BCW(C2) Dept., Dt. 09.01.2004 and G.O. Ms. No. 45, B.C.W(C2) Dept., Dt.07/08/2008)
19. Mudiraj / Mutrasi / Tenugollu.
20. Munnurukapu (Telangana)
22. Nelli(deleted vide G.O.Ms. No. 43, B.C.W(C2) Dept., Dt.07/08/2008)
23. Polinativelmas of Srikakulam and Visakhapatnam districts
24. . . . deleted vide G.O. Ms. No. 16 Backward Classes Welfare (C2) Dept., dt. 19/02/2009
25. Passi
26. Rangrez or Bhavasarakshtriya
27. Sadhuchetty
28. Satani (Chattadasrivaishnava)
29. Tamiali (Non-Brahmins) (Shudra Caste) whose traditional occupation is playing musical instruments, vending of flowers and giving assistance in temple service but not Shivarchakars. Included vide G.O. Ms. No. 7, Backward Classes Welfare (C2) Dept., Dt. 19/02/2011.
30. Turupukapus or Gajula kapus {... the words "of Srikakulam, Vizianagaram and Vishakhapatnam Districts" were deleted vide G.O.Ms.No. 62, Backward Classes Welfare (C2) Dept., dt. 20/12/2008 and G.O. Ms. No. 19 Backward Classes Welfare (C2) Dept., dt. 19/02/2009) who are subject to Social customs or divorce and remarriage among their women (G.O. Ms. No. 65, E&SW, dt. 18.02.1994)
31. Uppara or Sagara
32. Vanjara (Vanjari)
33. Yadava (Golla)
36. Arava of Srikakulam District only. Included in vide G.O. MS. No. 24 BC W (C2) Dept., Dt. 4/07/08
37. Ayyaraka, of Srikakulam, Vizianagaram, Visakhapatnam, East Godavari, West Godavari, Krishna, Guntur, Khammam and Warangal Districts only. Included in vide G.O. MS. No. 25 BC W (C2) Dept., Dt. 4/07/08
38. Nagaralu of Srikakulam, Vizianagaram, Visakhapatnam, Krishna, Hyderabad and Rangareddy Districts only. Included in vide G.O. MS. No. 27 BC W (C2) Dept., Dt. 4/07/08
39. Aghamudian, Aghamudiar, Agamudivellalar and Agamudimudialiar including Thuluvu Vellalas of Chittoor, Nellore, Kurnool, Anantapur, Hyderabad and Rangareddy Districts only. Included in vide G.O. MS. No. 20 BC W (C2) Dept., Dt. 4/07/08
40. Beri Vysya, Beri Chetty of Chittoor, Nellore and Krishna Districts only. Included in vide G.O. MS. No. 21 BC W (C2) Dept., Dt. 4/07/08
41. Atirasa included vide G.O. Ms.No. 5 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to East Godavari and West Godavari Districts only.
43. Varala included vide G.O. Ms.No. 12 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to Telangana region only.
45. Lakkamari Kapu included vide G.O. Ms.No. 14 Backward Classes Welfare (C2) Dept., dt. 19/02/2009. The area of operation shall be confined to Telangana region only.
47. Kurmi, included vide G.O.Ms. No. 12, Backward Classes Welfare (C2) Dept., Dt. 27/05/2011. The area of operation shall be confined to Telangana Region and also Krishna District only.

GROUP – E

(Socially and Educationally Backward Classes of Muslims)

2. Attar Saibuli, Attarollu
3. Dhobi Muslim/ Muslim Dhobi/ Dhobi Musalman, Turka Chakla or Turka Sakala, Turaka Chakali, Tulukka Vannan, Tskalas or Chakalas, Muslim Rajakas.
4. Faqir, Fhakir Budbudki, Ghanti, Fhakir, Ghanta Fhakirlu, Turaka Budbudki, Derves, Fakeer
5. Garadi Muslim, Garadi Saibulu, Pamulavallu, Kani-Kattuvallu, Garadollu, Garadigai.
6. Gosangi Muslim, Phakeer Sayebulu
7. Guddi Eluguvallu, Elugu Bantuvallu, Musalman Keelu Gurralavallu
8. Hajam, Nai, Nai Muslim, Navid
9. Labbi, Labbai, Labbon, Labba
10. Pakeerla, Borewale, Deraphakirlu, Bonthala
11. Kureshi/ Khureshi, Khasab, Marati Khasab, Muslim Katika, Khatik Muslim
12. Shaik/ Sheikh
13. Siddi, Yaba, Habshi, Jasi
14. Turaka Kashpa, Kakukkote Zinka Saibulu, chakkitakanevale, Teragudu Gontalavaru, Thirugatiganta, Rollaku Kakku Kottevaru, Pattar Phodulu, Chakketakare, Thuraka Kashpa
15. Other Muslim groups excluding Syed, Saiyed, Sayyad, Mushaik; Mughal, Moghal; Pathans; Irani; Arab; Bohara, Bohra; Shia Imami Ismaili, Khoja; Cutchi-Memon; Jamayat; Navayat; and all the synonyms and sub-groups of the excluded groups; and except those who have been already included in the State List of Backward Classes.

N.B.: 1. The above list is for information and subject to confirmation with reference to G.O.Ms.No. 58, SW(J) Department, dated 12/05/1997 and time to time orders.
2. On account of any reason whatsoever in case of any doubt/ dispute arising in the matter of community status (SC/ST/BC/OC) of any candidate, subject to satisfaction with regard to relevant rules and regulations in force the decision of the Commission shall be final in all such cases.