

ANDHRA PRADESH PUBLIC SERVICE COMMISSION: HYDERABAD

**Lecturers in Government Polytechnic Colleges (Engineering and Non-Engineering) in A.P.
Technical Education Service
Notification No. 47/2008
(General Recruitment)**

PARA – 1:

Applications are invited On-Line in the proforma through WEBSITE www.apspsc.gov.in from 15/04/2009 to 30/04/2009 for recruitment to the Post of Lecturers in Government Polytechnic Colleges (Engg. & Non Engg).

The desirous eligible candidates should completely acquaint themselves with the following terms and conditions of this recruitment. The Commission has dispensed with the earlier procedure of the sale of applications at HPOs/Sales Counter of A.P. Public Service Commission. The details of the provisional vacancy position are as follows:

Post Coe	Name of the Post	No. of Vacancies	Age as on 01/7/2008 Min. Max.	Scale of Pay
1	Lecturer in Civil Engineering	15	18-39	Rs. 8,000- 13,500 AICTE Scales. 50% DA Merged
2	Lecturer in Mechanical Engineering	13		
3	Lecturer in Electronics & Communication Engineering	12		
4	Lecturer in Computer Engineering	09		
5	Lecturer in Electrical & Electronics Engineering	06		
6	Lecturer in Textile Technology	03		
7	Lecturer in Information Technology	02		
8	Lecturer in English	05		
9	Lecturer in Chemistry	05		
10	Lecturer in Physics	05		
11	Lecturer in Mathematics	06		
TOTAL		81		

(The Break up of vacancies Zone wise, for reserved categories and meant for Open Competition, may be seen at Annexure-I)

NOTE:

1. THE APPLICANTS ARE REQUIRED TO CLICK ON APPLY LINK ON HOME PAGE OF WEBSITE www.apspsc.gov.in BEFORE FILLING THE ONLINE APPLICATION. THE APPLICANTS HAVE TO READ THE INSTRUCTIONS AND DECIDE THEMSELVES AS TO THE ELIGIBILITY FOR THIS RECRUITMENT AND ENTER THE PARTICULARS COMPLETELY ONLINE. AFTER SUBMISSION OF APPLICATION ONLINE THEY HAVE TO PAY THE FEE INDICATED ON THE DOWNLOADED CHALLAN AT ANY STATE BANK OF INDIA
FEE:-
RS. 25/- (RUPEES TWENTY FIVE ONLY) TOWARD PROCESSING /APPLICATION FEE TO ALL THE APPLICANTS.
RS.120/- (ONE HUNDRED AND TWENTY ONLY) TOWARDS EXAMINATION FEE FOR THOSE WHO ARE NOT EXEMPTED FROM PAYMENT OF FEE.
2. APPLICANT MUST COMPULSORILY FILL UP ALL RELEVANT COLUMNS OF APPLICATION AND SUBMIT APPLICATION THROUGH WEBSITE ONLY. THE PARTICULARS MADE IN WEBSITE / ONLINE THEREIN SHALL BE PROCESSED THROUGH THE COMPUTER, AND THE ELIGIBILITY DECIDED IN TERMS OF THE 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.
4. APPLICANT MUST COMPULSORILY UPLOAD SCANNED PHOTO AND SIGNATURE THROUGH J.P.G (JOINT PHOTOGRAPHIC EXPERTS GROUP) FORMAT.
5. ALL THE CERTIFICATES ISSUED BY THE COMPETENT AUTHORITY SHALL COMPULSORILY BE KEPT WITH THE CANDIDATES TO PRODUCE AS AND WHEN REQUIRED.
6. THE CANDIDATE SHOULD NOT FURNISH ANY PARTICULARS THAT ARE FALSE, TAMPERED, FABRICATED OR SUPPRESS ANY MATERIAL INFORMATION WHILE MAKING AN APPLICATION THROUGH WEBSITE.
7. **IMPORTANT:-** HAND WRITTEN/TYPED/PHOTOSTAT COPIES/PRINTED APPLICATION FORM WILL NOT BE ENTERTAINED.

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. **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-2(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, All Candidates belonging to other States shall pay the prescribed Fee.**
4. **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.
5. Reservation and eligibility in terms of General Rule 22 & 22 (A) of A.P. State and Subordinate Service Rules are applicable.
6. Reservation to Disabled persons is not applicable as per the Departmental Special Rules.
7. **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.
8. 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.
9. 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.
10. The Reservation to Women will apply as per General Rules and Special Rules.
11. 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.
12. The Candidates belonging and claiming to be Backward Classes Group-E may apply indicating their community as BC-E. However, providing reservation to BC-E group will be subject to the adjudications of the litigation pending before the Honorable Courts.
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. The Government have fixed the annual income limit at Rs. 4.00 Lakhs. In view of the said Government orders candidates claiming as belonging to Backward Classes have to produce a Certificate from the competent authority regarding their exclusion from the Creamy Layer at an appropriate time.

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.

Post Code	Name of the Post	Educational Qualifications
2	Lecturer in Civil Engineering	Must possess a First Class Bachelor's Degree in the appropriate Branch of Engineering/Technology.
3	Lecturer in Mechanical Engineering	
4	Lecturer in Electronics & Communication Engineering	
5	Lecturer in Computer Engineering	
6	Lecturer in Electrical & Electronics Engineering	
7	Lecturer in Textile Technology	
7	Lecturer in Information Technology	
8	Lecturer in English	A First Class Master's Degree in English from an University in India recognized by UGC.
9	Lecturer in Chemistry	A First Class Master's Degree in Chemistry from an University in India recognized by UGC.
10	Lecturer in Physics	A First Class Master's Degree in Physics from an University in India recognized by UGC.
11	Lecturer in Mathematics	A First Class Master's Degree in Mathematics from an University in India recognized by UGC.

Note (a): 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 39 years as on 01/07/2008

N.B: The Candidate shall complete 18 years and shall not be more than 39 years of age.

NOTE: The upper age limit prescribed above is relaxable in the following cases:

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

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.

PARA-4: (a) FEE: (Remittance of Fee) Each applicant must pay Rs. 25/- (Rupees Twenty Five Only) towards Application Fee and Examination Fee RS.120/- (ONE HUNDRED AND TWENTY ONLY) (if Candidates, who are not exempted from payment of Fee).

b) Mode of Payment of Fee: After submission of the details in the Application Form, the Application along with challan will be generated in Downloadable/Printable PDF (Portable Document Format). Candidates are required to take printout of the **ONLINE APPLICATION** along with Challan. Through challan Form candidates are required to pay the amount as indicated in the challan in any branch of State Bank of India in the country.

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

- SC, ST, BC, & Ex-Service Men.
- Families having Household Supply White Card issued by Civil Supplies Department, A.P. Government.
- Un employed youth in the age group of 18 to 39 as per G.O.Ms.No. 439, G.A.(Ser.A) Dept., dated: 18/10/1996 should submit declaration at appropriate time to the Commission.
- 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 as 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 are 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 INSTITUTION 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, NZB, MBNR, MDK, NLG)

City Cadre: City of Hyderabad consists of Hyderabad Division, Secunderabad Division of Municipal Corporation of Hyderabad, Secunderabad Contonment area, O.U.Campus, Fatehnagar, Bowenpally, Macha Bolarum, Malkajgiri, Uppal Khalsa, Alwal, Balanagar, Moosapet, Kukatpally Panchayat Areas and Zamistanpur and Lallaguda 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 JPG FORMAT:**

- i) The Candidates have to read the User Guide for Online Submission of Applications and then proceed further.
- ii) Affix a recent Colour Passport Size Photograph on a White Paper and then sign below the photograph with Black Pen. Scan the said Photo and Signature and save the same, upload in the appropriate space provided (JPG Format) in Application Form.
- iii) After submission of Application through ONLINE, the Application Form along with challan will be generated in downloadable/ printable PDF.

Candidates are required to download the Application along with challan and pay the Fees as indicated in the challan at one of the branches of State Bank of India any where in the country for final acceptance of the Application.

- iv) **Hand written/ Typed/ Photostat copies/ outside printed Application Form will not be accepted and liable for rejection.**
- v) Only candidates willing to serve anywhere in the Andhra Pradesh should apply in case of selection against open to all vacancies.
- vi) **Do not enclose any certificates to the Application Form.**
- vii) For any problems related to Online submission and downloading of Hall-Tickets please contact 9246572520 or 9246290436 (Call Time: 9.30 A.M to 1.00 P.M & 1.30 P.M to 6.00 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 through Online.
3. INCOMPLETE/INCORRECT APPLICATION FORM AND APPLICATIONS RECEIVED 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 OF THE APPLICATION FORM AND SUBMISSION. IF ANY LAPSE IS DETECTED DURING THE

- b) The Penal Provisions of Act 25/97 published in the A.P. Gazette No. 35, Part-IV.B Extraordinary dated: 21/08/1997 shall be invoked if malpractice and unfair means are noticed at any stage of the 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 exam 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 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 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,
DATE: 31/12/2008

Sd/-
SECRETARY

ANNEXURE – I
ANDHRA PRADESH PUBLIC SERVICE COMMISSION: HYDERABAD
Notification No. 47/2008

**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

Zone	OC		BC-A		BC-B		BC-C		BC-D		BC-E		SC		ST		Total		Grand Total
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
I	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	1
II	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
III	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IV	1	1	1	-	-	-	-	-	1	-	1	-	-	1	-	-	4	2	6
V	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2
VI	3	1	1	-	-	-	-	-	-	-	-	-	1	-	-	-	5	1	6
Total	5	3	2	-	-	-	-	-	1	-	1	-	2	1	-	-	11	4	15

PC.NO.2 LECTURER IN MECHANICAL ENGINEERING

Zone	OC		BC-A		BC-B		BC-C		BC-D		BC-E		SC		ST		Total		Grand Total
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
II	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
III	1	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	3	-	3
IV	1	-	-	1	-	-	-	-	1	-	1	-	-	-	-	-	3	1	4
V	1	1	-	-	-	1	-	-	-	-	-	-	-	1	-	-	1	3	4
VI	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	1	2
Total	3	2	1	1	1	1	-	-	1	-	1	-	1	1	-	-	8	5	13

PC.NO. 3 LECTURER IN ELECTRONICS & COMMUNICATION ENGINEERING

Zone	OC		BC-A		BC-B		BC-C		BC-D		BC-E		SC		ST		Total		Grand Total
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
II	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	-	2
III	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IV	2	1	-	1	-	1	-	-	1	-	1	-	-	1	-	-	4	4	8
V	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2
VI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total:	5	1	-	1	-	1	-	-	1	-	1	-	1	1	-	-	8	4	12

PC.NO. 4 LECTURER IN COMPUTER ENGINEERING

Zone	OC		BC-A		BC-B		BC-C		BC-D		BC-E		SC		ST		Total		Grand Total
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
II	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	1
III	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IV	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2
V	1	1	-	-	1	-	-	-	-	-	-	-	1	1	1	-	4	2	6
VI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	2	1	1	-	1	-	-	-	-	1	-	-	1	1	1	-	6	3	9

PC.NO. 5 LECTURER IN ELECTRICAL & ELECTRONICS ENGINEERING

Zone	OC		BC-A		BC-B		BC-C		BC-D		BC-E		SC		ST		Total		Grand Total
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
II	-	1	-	-	-	-	-	-	-	1	-	1	1	-	-	-	1	3	4
III	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
V	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1
VI	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1
Total	1	1	-	-	-	-	-	-	-	1	-	1	1	-	-	1	2	4	6

PC.NO. 6 LECTURER IN TEXTILE TECHNOLOGY

Zone	OC		BC-A		BC-B		BC-C		BC-D		BC-E		SC		ST		Total		Grand Total
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
II	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
III	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	1
IV	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	2
V	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total:	-	1	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	2	3

PC.NO. 7 LECTURER IN INFORMATION TECHNOLOGY

Zone	OC		BC-A		BC-B		BC-C		BC-D		BC-E		SC		ST		Total		Grand Total
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
II	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
III	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IV	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	2
V	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total:	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	2

PC.NO. 8 LECTURER IN ENGLISH

Zone	OC		BC-A		BC-B		BC-C		BC-D		BC-E		SC		ST		Total		Grand Total
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
I	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1
II	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
III	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IV	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1	1	2
V	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1
VI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1
Total	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	3	2	5

PC.NO. 9 LECTURER IN CHEMISTRY

Zone	OC		BC-A		BC-B		BC-C		BC-D		BC-E		SC		ST		Total		Grand Total
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
II	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
III	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1
IV	2	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	2	2	4
V	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	3	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	3	2	5

PC.NO. 10 LECTURER IN PHYSICS

Zone	OC		BC-A		BC-B		BC-C		BC-D		BC-E		SC		ST		Total		Grand Total
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
II	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
III	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
IV	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	2	-	2
V	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	1
VI	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
Total	1	1	-	1	-	-	1	-	-	-	-	1	-	-	-	-	3	2	5

PC.NO. 11 LECTURER IN MATHEMATICS

Zone	OC		BC-A		BC-B		BC-C		BC-D		BC-E		SC		ST		Total		Grand Total
	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	G	W	
I	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	1
II	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
III	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	1
IV	1	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	1	3
V	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1
VI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	1	1	-	-	-	-	-	-	-	-	-	-	3	-	-	1	4	2	6

- Note:**
1. The vacancies are subject to variation.
 2. The vacancies are notified as per indent of the Unit Officer.
 3. There shall be no Waiting List as per G.O.Ms.No.81 and Rule 6 of APPSC Rules of Procedure.
 4. Refer to Rule 1 and NOTE ON IMPORTANT LEGAL PROVISIONS GOVERNING THE RECRUITMENT PROCESS therein, as well as 2,3,4,5,6 in particular and other Rules of this Notification in general, inter alia with all other Rules and references cited herein their original, for full understanding of the recruitment and selection process to fill up the vacancies notified herein.

ANNEXURE – II

Notification No. 47/2008

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

SCHEME

<u>PART-A:</u> 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
<u>PART-B:</u>	ORAL TEST (Interview)	50 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 if of **P.G. Degree standard**
 3. The Question papers will be in English only.

Name of the Subject	Name of the Subject
Civil Engineering	Information Technology
Mechanical Engineering	English
Electronics & Communication Engineering	Chemistry
Computer Engineering	Physics
Electrical & Electronics Engg	Mathematics
Textile Technology	

SYLLABUS**GENERAL STUDIES AND MENTAL ABILITY**

1. 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.
2. Current events of national and international importance.
3. 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.
4. World Geography and Geography of India with a focus on AP.
5. Indian polity and Economy – including the country's political system- rural development – Planning and economic reforms in India.
6. Mental ability – reasoning and inferences.

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.

Strain energy method, slope-deflection method, moment distribution method and Kaini's method of analysis of indeterminate structures.

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:

Steady flow through open channels. Uniform flow in channels; Chezy and Manning's formulae. Specific energy and critical depth. Hydraulic jump – Momentum equation for a hydraulic jump. Surface Water hydrology; Hydrologic cycle, hydrologic data- measurement of precipitation, evaporation, transpiration, and infiltration. Runoff, determination of run-off. Stream gauging; flood-Studies, Hydrograph and unit hydrograph, flood routing. Ground water resources, Darcy's law, Dupuits equation, yield of wells, recuperation test.

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, Aerial 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 anrail 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.

MECHANICAL ENGINEERING

01. FLUID MECHANICS:

Fluid Properties, fluid static's, 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:

Thermo dynamic systems, measurements of temperature work, heat and internal energy. First law of thermodynamics, ideal gas equation Air standard cycles, Carnot, Otto, Diesel, dual and Joule cycle. Energy and Enthalpy. Second law of Thermo dynamics. Available and Unavailable energies. Reversible and irreversible processes. Psychrometry, Properties of pure substances.

03. MATERIAL SCIENCE:

Structure of metal and alloys, Bonding 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:

Classification of manufacturing processes. Fundamentals of casting. Classification of casting process. Sandcasting – patterns, molding, melting and pouring solidification, cleaning and finishing casting defects. Metal forming – hot and cold working, forging, rolling extrusion, wire and tube drawing, deep drawing, blanking and stamping processes. Fundamentals of welding arc and gas welding, brazing and soldering, heat treatment – annealing – normalizing, hardening and tempering.

06. APPLIED THERMO DYNAMICS:

Internal combustion engines classification, working and performance of C.I. and S.I. engines combustion process in I.C. Engines Rating of fuels, pre ignition and knocking in I.C. Engines, Carburation and injection, Reciprocating air compressors – Single and multi stage compressors, inter cooling, volumetric efficiency. Rotary Compressors – fans blowers and compressors Axial and Centrifugal compressors – merits and demerits. Boilers and condensers – types of boilers and condensers, calculation of boiler efficiency and equivalent evaporation, feed water heaters. Steam and Gas turbines Impulse and reaction turbines degree of reaction velocity triangles, ranking cycle for steam turbine power plant reheating and regeneration Gas turbine cycles methods of improving gas turbine cycle efficiency.

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 brakes. 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.

ELECTRONICS & COMMUNICATION ENGINEERING

01. Network analysis, Topology, Tree Tieset out set, first and Second order Circuits. Steady State and Transient response, Sinusoidal steady State Analysis. Series and parallel Resonance, Network Theorems, Laplace Transforms, Fourier series, Fourier Transforms – Applications, Two port. Network Parameters, Interconnection of two ports, Image Impedance, Image Parameters. Filters – constant K and M derived sections. Electronics Devices – Diodes, Transistors, FET biasing, and characteristics, Frequency, Response, Amplifier circuits. Electro Magnetic Theory – Maxell's Equations. Coulomb's law, Amper's law , Faraday's law, Poynting Energy Theorem, Stoke's theorem, uniform plane waves. Transmission Line Theory – Standing waves & Travelling waves, Reflection, VSWR.
02. Feedback Amplifiers and oscillator Circuits Wave Shaping circuits, Logic Gates, Boolean Theorems, Adders & Subtractors. Antennas & Propagation – Radiation Principle, Antenna parameters. Definitions. Directional Antennas, Linear Antenna Arrays, Broadside & End fire Arrays, Gain, Directivity, Radiation pattern. Ground Wave, Sky Wave, Ionosphere Propagation, Guided Waves, Rectangular Wave-Guide Analysis, Microwave Circuits and Components. Microwave Tubes, Klystron, Magnetron, and TWT. Modulation Techniques – AM, FM, PM. Channel capacity, Noise, AM, FM, Transmitters, Radio Receivers. TV and Satellite Communication – Principles Radar Equation and Applications of Radar Computer Programming, FORTRAN, BASIC, PASCAL, Are Programming languages.

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, planner 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.

ELECTRICAL AND ELECTRONICS ENGINEERING

01. ELECTRIC CIRCUITS, FIELDS & MEASUREMENTS:

Network elements – Ohm's law and Kirchoff's laws – formation of mesh and nodal equations – topological description of networks – response of R, L and C elements to arbitrary excitations – Laplace transform method of analysing networks.

Network theorems – superposition, Thevenin's Norton's theorems – Maximum power transfer theorem – reciprocity theorem – applications – two port parameters – Z, Y, ABCD, H parameters – their relationships.

A.C. Circuits – single phase circuits – J-notation – calculations – resonance – Polyphase – circuits – measurements of polyphase power.

Electromagnetic theory – general relations in static fields – potential gradient and field intensity – flux density – Gauss's law – Poisson and Laplace equations – relations in electromagnetic fields – ampere's law – flux and flux density – divergence and curl – vector magnetic potential.

Electrical measurements – Types of measuring instruments – Principles of operation – extension of ranges – instrument transformers.

02. CONTROL SYSTEMS, COMPUTATION AND ELECTRONICS

Control systems – Types of servo mechanisms – equations and models of linear systems – block diagrams – time response of second order systems – stability criteria – root locus technique – frequency response – Nyquist criterion – Bode plots.

Elements of computation: Digital systems – flow charts and algorithms – FORTRAN – types of statements – logical expressions – Assignment statements – program structure – Scientific and Engineering applications.

Electronics: Solid-state devices and circuits – small signal amplifier design – feedback amplifiers – Oscillators – FETS – Thyristors.

03. ELECTRICAL MACHINES:

Principles of Electromechanical Energy Conversion: Basic ideas of production of torque – concepts of generation of voltages – formulae for voltage and torque production.

Three phase induction motors: The revolving field theory – Principles of operation of induction motor – torque equation – Computation of performance – torque speed characteristics – motor starters – conventional and thyristor controllers for speed control of induction motors.

Single phase motors: Revolving field theory – types of single-phase motors – equivalent circuits – speed control – applications.

Synchronous machines: Generation of 3-phase voltages – types of synchronous machines – equivalent circuit – experimental determination of reactances – voltage regulation and efficiency – parallel operation – transient and subtransient reactances – synchronous motors – theory of operation - phase diagram – equivalent circuit – performance and power factor control – applications.

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.

Transmission: A.C. Vs. D.C. transmission – criteria for selection of voltages – transmission line parameters – G.M.D. and G.M.R – concepts for short, medium and long lines – line calculations – A.B.C and D constants – load flow analysis – surge impedance loading.

Corona and insulators: production of corona – disruptive and visual corona – corona loss – methods to avoid corona – types of insulators – string efficiency.

Fault analysis: Per unit representation: fault analysis – Symmetrical and unsymmetrical faults – application of symmetrical components – reactors.

Protection: Switch gear – methods of arc extinction – classification of circuit breakers – definitions – calculations in switch gear – testing of circuit breakers – Relaying principles – primary and back up relaying – definitions – operation of different types of relays – applications to line, transformer and generator protection – protection of lines and equipment against voltage surges – travelling wave theory.

Utilisation: Industrial drives – motors for various applications – braking – methods of heating and welding – welding transformer – Economics and other aspects of track electrification.

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.
3. Manmade fibres and their raw materials. Outline of production of synthetic fibres. Physical and chemical properties and microscopic view.

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 better 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 twistors. Manufacturing of sewing thread. Calculations regarding production with reference to various parameters of spinning. Open end spinning: Types and methods of open end spinning.

TEXTILE CHEMISTRY: Coal tar distillation. Chemistry of sizing, Bleaching and dyeing. Various dyes and chemicals, types of printing and finishing machines and methods. Process of mercirising. Various dyes used in dyeing of different fibres.

Calculations regarding all processes mentioned above.

II. WEAVING:

- 1) Object of the preparatory process and types of warp preparation. Classification types of preparatory machines. Principle of warp winding process. Warp winding machines, Automatic warp winding machines. Pirn winding machines.
- 2) Sizing: Importance and objects of sizing. Requirements and application of size and preparation of size. Slasher sizing machines. Principles of modern size controls used in sizing machines. Study of the development in sizing.
- 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.
- 4) Principles of Automatic and shuttleless weaving. Study of Modern Automatic looms viz., Dornier, Airjet, Waterjet, rapier, Grib pebloom.
- 5) Fabric Structure: Principles of fabric structures. Different types of weaves and their construction. Drafting and peg plans according to weaves, Double Cloth, Dobby and Jacquard designs.
- 6) Understanding Mill maintenance. Functions and utilizes. Maintenance and lubrication schedules in various departments.
- 7) Textile Testing: Sampling of various material viz., cotton, yarn, fabric etc., Physical and chemical testing of fabrics and other material. Defects of materials and their identification. ISO & TOM. Concepts and Application.
- 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.

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 datapath, 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 asynchronous 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.

ENGLISH

Detailed Study of literary age (19th Century) viz.,

The period of English Literature from 1798 to 1900 with special reference to the works of the major writers including Words worth, Coleridge, Byron, Keats, Shelley, Lamb, Hazlitt, Thackeray, Dickens, Tennyson, Browning, Arnold George Eliot, Calyle and Ruskin.

Study of the following Texts:

- | | | | |
|-----|---------------------|---|---|
| 1. | William Shakespeare | : | 'Macbeth', 'Hamlet', 'Julius Vrsdst', 'Tempest' |
| 2. | John Milton | : | 'Paradise Lost', -Books I & II |
| 3. | Alexander Pope | : | .'The Rape of the Lock' |
| 4. | William Wordsworth | : | 'The Immorality Ode', 'The Tin Tern Abbey' |
| 5. | John Keats | : | 'Ode to a Nightingale' |
| 6. | P.B. Shelley | : | 'Ode to the West Wing' |
| 7. | Jane Austen | : | 'Pride and Prejudice'. |
| 8. | Charles Dickens | : | 'A Tale of Two Cities' |
| 9. | Thomas Hardy | : | 'The mayor of Casterbridge' |
| 10. | W.B. Yeats | : | "Byzantium", 'The Second Coming'. |
| 11. | T.S. Eliot | : | 'The Waste Land'. |
| 12. | D.H. Lawrence | : | 'Sons and Lovers'. |
| 13. | Mulk Raj Anand | : | 'The Big heart' |
| 14. | R.K. Narayan | : | 'The Man eater of Malgudi' |

CHEMISTRY

Inorganic Chemistry :

1. Atomic structure & Chemical Bonding – Quantum theory Schrodinger – wave equation – Hydrogen atom, Hydrogen molecule – Elements on valence bond – molecular orbital theories.
2. Determination of molecular structure – X – ray and electron diffraction methods.
3. Periodic classification (Classical and modern) periodic functions of elements – atomic volume – atomic radius electronegativity-oxidation states – lattice energy and their applications.
4. Chemistry of d-block elements – Physical and chemical characteristics of the transition elements – Characteristics related to electronic arrangements oxidation states – color magnetic properties – Complex formation – interstitial L-S coupling – Hund's rule. A General study of the first transition series.
5. Chemistry of f-block elements – Lanthanons and Actinons – electronic configurations – oxidation's states – Separation of Lanthanons and Actinons.
6. Chemistry of complex compounds: Jorgenson and werner's views – effective atomic number – valence bond theory – Introductory treatment of crystalfield theory applied to complexes with co-ordination number 6.
7. Isomerism in complexes : Geometrical and optical isomerism of four and six co-ordinated complexes. Pearson's theory of hard and soft acids and bases.
8. Study of the following elements and their modern Chemistry Be, Ti, Zr, Hf, V, Mo, W, U, and Th.
9. Alloys : Intermetallic compounds.

Physical Chemistry :

10. Radio activity : Elementary account of nuclear structure natural and artificial radio activity – characterisation of relations – decay chains-half-life-decay constant and average life. Radio-active series, atomic transmutation – atomic fission and fusion reactions and their applications – nuclear isomers and their separations.
11. Kinetic theory of gases : Equations of state – critical constants – States of aggregation – liquid states – viscosity – physical properties and chemical constitution – collision theory of derivation of the collision – number from Kinetic theory of gases.
12. Chemical Kinetics : order and molecularity of reaction first order and second order reactions – law of mass action – influence of temperature and pressure – thermo-dynamic derivation of Law of mass action – unimolecular reactions Lindemann's theory.
13. Thermodynamics : First law of thermodynamics and its applications to ideal gases, energy and enthalpy changes in gases, heat capacities of gases and their inter-relation. Isothermal and adiabatic processes – Kirchoff's equation and its applications – Vant Hoff's isotherm isochore equilibria in heterogeneous system. Second Law of thermo dynamics (Joules and Joule Thomson experiments). Entropy change in an isolated system for reversible and irreversible processes – Variation on entropy of a system with temperature and pressure.

Organic Chemistry :

14. Heterocyclic compounds and chemistry of neutral products – Importance of heterocyclic compounds – classification based on the nature of heterocyclic ring, size of the ring and II excessive and II deficient nature of the ring. A general and comparative study of Furan pyrrole and thiophene Ring transformations. General comparison with benzenoid compounds, pyridine, quinoline, Isoquinoline and acridine-II deficient nature of heterocyclic rings – case of nucleophilic substitution.
15. Methods of synthesis, reactivity and properties of the following polynuclear aromatic compounds: anthracene, Benzanthracene, Phenanthrene Chrysen and picene.
16. Benzopyrones : Coumarins and Chromones.

17. Alkaloids : General occurrence, reactions and degradations. Chemical and Physico-Chemical methods for the elucidation of structures-synthesis and structural elucidation of the following alkaloids – atropine – cocaine - quinene – Narcotine – papaverine.
18. Organic reaction mechanism: Structure and reactivity of organic molecules – Factors affecting Electron density in a band-inductive, inductive, mesomeric, (resonance) and electrometric effects, hyperconjugation – Dipole moments-acidic and basic strength of organic Compounds.
Modern concepts of organic reaction mechanisms – Addition, substitution and elimination reactions – simple examples and their mechanism. The intermediate carbonium ion formation and its participation in organic reactions. Addition C-C, system-pinacol-pincolene rearrange rearrangements. Automatic substitution – Formation and hydrolysis of esters.
19. Some name reactions : Wurtz-Friedel-Crafts, Fries-Gattermann – Perin – Beckmann's rearrangements and Grignard reactions.
20. Carbohydrates : General reactions of monosaccharides – configurational studies on glucose, fructose, sucrose, Recent advances in the Chemistry of cellulose and starch.
21. Proteins – Introduction to proteins – their classification – Nomenclature and distribution in nature simple, amino acids – Isolation and their synthesis.
22. General Ideas regarding the chemistry of vitamins & Hormones nicotine, B-Carotene and Vitamin C.
23. Alicyclic compounds : Synthesis and reactions Bayers strain theory – Factors affecting stability of conformation – terpenes – citral – geraniol – limonene – terpinol – pinene and camphor.
24. Stereo Chemistry : Optical and geometric isomerism configuration of saturated molecules – DL and RS configuration of optically active compound-racemic – mixtures – racemisation and resolution.
25. Molecular spectra : NMR, Chemical shift – Spin – Spin-coupling – ESR of simple radicals – Rotational Spectra, diatomic molecules, linear triatomic molecules, isotopic substitution – Vibrational and Raman Spectra.

Physical Chemistry :

26. Electro-Chemistry : Equivalent conductance and its measurement. The independent migration of ions – Kohlrausch's Law. Transport number and their determination. Ionic mobilities. Equivalent conductance of weak and strong electrolytes. Inter-ionic attraction theory treated quantitatively-Debye-Hückel-Onsager equation. Determination of solubilities from conductance measurements --Conductometric titration's.
Ionic product of water and its determination from conductance and EMF methods – theories of acids and bases – Hydrogen ion concentration and its measurements from E.M.F.measurements using Hydrogen quin – hydrogen and glass electrodes – Buffer solutions – Henderson's equation potentiometric titration's – Determinations of equilibrium constant and solubilities from E.M.F.measurements – Gibbs – Helmholtz equation and its application to chemical cells.
27. Photo – Chemistry : Laws on absorption of light – Griess – Draper Laws – Einstein's Law in Chain reactions – Hydrogen chlorine reactions – absorption – Laws of absorption.

Surface Chemistry and catalysis – Absorption isotherms, surface area determination, heterogeneous catalysis, acid-base and enzyme catalysis.

PHYSICS

I. Mathematical Physics:

Vectors: Vector operators like DCI & grad, div. & curl. Surface and volume integrals – Theorems of Gauss, Stokes, & Green.

Matrices : Quality, addition and subtraction, multiplication of matrices, inverse of a matrices, similarity and unitary transformation Characteristic equation of a matrix Eigen values – Eigen vectors Square, diagonal, unit, symmetric, and skewmatrix - Hermitian and unitary matrix.

Tensors: Tensors of any order –Transformation relation Covariant & Contra-variant tensors-Christoffel symbols.

Fourier Analysis: Trigonometric Fourier series – Evaluation of coefficients – Exponential Fourier series.

II. Classical Mechanics:

General Theorems of mechanics of mass points – Principals of Virtual work – De-Alembert's principle – Lagrange's equation of motion – Hamilton's principle – Hamilton's Equation of motion – Principle of least action – Canonical transformations = Poisson bracket. Rigid body motion – Euler's theorem on rigid body motion – moment of inertia-tensor – heavy Symmetrical top.

III. Electromagnetic Theory:

Generalisation of Ampere's Law – Derivation of Maxwells equation – Pointing theorem – Transverse nature of Electromagnetic waves – propagation & Conducting and non-conducting media – metallic reflection – Propagation of light in crystalline media – Fresnel's Theory of double refraction.

IV. Special Theory of Relativity:

Galilean Transformation – Newtonians Relativity – Michelson's Morley Experiment – Postulates of special theory of relativity Lorentz's transformation – Relativistic particle mechanics Equivalence of mass & energy – Covariance of Maxwell's equation.

V. Statistical Mechanics:

Generalised coordinates & momenta-phase space, Liowellies Theorems – Maxwell Boltzman statistics – Distribution of velocities and energy in ideal gas – Equipartition of energy – Vibrational, rotational, and electronic partition functions for diatomic gas – specific heats of gas – Ortho and para hydrogen's – Bose Einstein & Fermi Dirac statistics – Bose Einstein gas and application to radiation – liquid helium – Free electrons in metals.

VI. Quantum Mechanics:

Shordinger's wave equation – Born interpretation of wave functions – Expectations values of dynamical variables – Ehrenfest's Theorem - Uncertainty Principle – Application of Shordinger's equation to (a) One dimensional squarewell potential (b) Simple harmonic Oscillator (c) Hydrogen atom.

Perturbation theory – First order and second order theories for non degenerate & degenerate systems – Application to normal helium atom – Time dependent & time independent perturbation theory – Application for each. Relativistic quantum mechanics – Klenn Garnian equation Dirac's equation Solution for a free particle meaning of negative energy states – Quantum theory of scattering – Born approximation.

VII. Electronics:

Vacuum: Tubes and semiconductor diodes – Principle and working of rectifier and power supply – Ripple factor L and T section filters voltage stabilisation in power supplies characteristics of triode and pentode and junction transistors their static characteristics – Voltage amplifiers – R.C. coupled amplifiers – and its frequency response Negative feed back in amplifiers – Advantages of – Ve feed back – condition for sinusoidal oscillations in transistor circuits Hartley and Colpitts oscillators – multi vibrators A stable – Monostable and bi-stable type – Pulse generator – Saw tooth voltage generator Cathode – ray oscilloscope (C.R.O).

VIII. Solid State Physics:

Crystallography – Classification of solids – Point group and space group – Crystal systems – Specification of planes and directions – Elements of X-ray diffraction – Various crystal bindings – Metallic, ionic, covalent molecular and hydrogen bonded crystals – Band theory of solids – motion of electrons in periodic potential Block's theorem Kronig's penny model – energy bands – Brillouin zones – distinction between insulators – Metals and Semi-conductors on band theory.

IX. Nuclear Physics:

Radioactivity, Chain dis-integration, transient and secular equilibrium – Age of rocks and Radio carbon dating – alpha decay or Gamow's theory – Beta decay and neutrino Interaction of gamma rays with matter – Selection rules – nuclear models – Liquid drop model – semi empirical mass formula – criteria for stability against spontaneous decay – Shell model – nuclear detectors – Ionisation – Chambers – G.M. counters – Proportional counters – bubble and spark chambers – Semi-conductor detectors.

X. Spectroscopy:

Bohr – Sommerfeld theory of Hydrogen atoms – Space quantisation – fine structure of spectral lines – Alkali spectra – Zeeman effect Vector atom model of one electron system – Paschen – Back effect – Stark effect in Hydrogen atoms – Band spectra – Types of band spectra-I.R. and Raman effect. Isotope effect – Franck – Candon Principle.

MATHEMATICS

Real Analysis: Continuity and differentiability of real functions.; Uniform continuity, Sequences and series of functions. Uniform convergence. Functions of bounded variation. Riemann integration.

Complex Analysis: Analytic functions. Cauchy's theorem Cauchy's integral formula. Laurent's series. Singularities. Theory of residues – Conformal mapping.

Abstract Algebra: Groups – Sub-groups – normal subgroups Quotient group Homomorphism – Fundamental theorem of Homomorphism, Permutation groups: Cayley's theorem – Rings – Subrings – Ideals – Fields – Polynomial rings.

Linear Algebra: Vector spaces – Basis and dimension – Linear transformations – Matrices – Characteristic roots and characteristic vectors – systems of linear equations – Canonical forms – Cayley – Hamilton theorem.

Differential Equations: First order ordinary differential equations (O.D.E) and their solutions – Singular solutions. Initial value problems for first order O.D.E. General theory of homogeneous and non-homogeneous linear differential equations, variation of parameters. Elements of first order partial differential equations (PDE).

Co-ordinate Geometry of Three Dimensions: The Plane – The straight-line – Sphere and cone.

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)

- 1 Adi Andhra
- 2 Adi Dravida
- 3 Anamuk
- 4 Aray Mala
- 5 Arundharitya
- 6 Arwa Mala
- 7 Bariki
- 8 Bavuri
- 9 Beda Jangam, Budga Jangam (In Districts of Hyderabad, Rangareddy, Mahaboobnagar, Adilabad, Nizamabad, Medak, Karimnagar, Warangal, Khammam and Nalgonda)*
- 10 Bindla
- 11 Byagara, Byagari*
- 12 Chachati
- 13 Chalavadi
- 14 Chamar, Mochi, Muchi, Chamar-Ravidas, Chamar-Rohidas*
- 15 Chambhar
- 16 Chandala
- 17 Dakkal, Dokkalwar
- 18 Dandasi
- 19 Dhor
- 20 Dom, Dombara, Paidi, Pano
- 21 Ellamalwar, Yellammalawandlu
- 22 Ghasi, Haddi, Relli, Chachandi
- 23 Godagali, Godagula(in the Districts of Srikakulam, Vizianagaram & Vishakapatnam) *
- 24 Godari
- 25 Gosangi
- 26 Holey
- 27 Holey Dasari
- 28 Jaggali
- 29 Jambuwulu
- 30 Kolupulvandlu, Pambada, Pambanda, Pambala *
- 31 Madasi Kuruva, Madari Kuruva
- 32 Madiga
- 33 Madiga Dasu, Mashteen
- 34 Mahar
- 35 Mala, Mala Ayawaru *
- 36 Mala Dasari
- 37 Mala Dasu
- 38 Mala Hannai
- 39 Mala Jangam
- 40 Mala Masti
- 41 Mala Sale, Netkani
- 42 Mala Sanyasi
- 43 Mang
- 44 Mang Garodi
- 45 Manne
- 46 Mashti
- 47 Matangi
- 48 Mahter

49	Mitha Ayyalvar
50	Mundala
51	Paky, Moti, Thoti
52	(Omitted)*
53	Pamidi
54	Panchama, Pariah
55	Relli
56	Samagara
57	Samban
58	Sapru
59	Sindhollu, 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. Bhil
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 Reddis
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, Benth Oriya, Bartika, Dulia, Holva, Sanrona, Sidhopaiko (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
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.,

1. Agnikulakshatriya, Palli, Vadabalija, Besta, jalari, Gangavar, Gangaputra, Goondla, Vanyakulakshatriya (Vannekapu, Vannereddi, Pallikapu, Pallireddy Neyyala and Pattapu) *Mudiraj / Mutrasi / Tenugollu, (* added vide G.O.Ms.No. 15 Backward Classes Welfare (C2) Dept., dt. 19/02/2009).
2. Balasanthu, Bahurupi
3. Bandara
4. Budabukkala
5. Rajaka (Chakali Vannar)
6. Dasari (formerly engaged in bikshatana)
(amended vide G.O.Rt.No. 32, BCW(M1) Department, dated 23/02/1995)
7. Dommara
8. Gangiredlavari
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. Mondivaru, Mondibanda, Banda
16. Nayee Brahmin (Mangali), Mangala and Bajantri
(amended vide G.O.Ms.No. 1, BCW(M1) Department, dated 6/1/1996)
17. Nakkala
18. Vamsha Raj (amended vide G.O.Ms.No. 27, BCW(M1) Department, dated 23/06/1995 deleting the Original name Pitchiguntla)
19. Pamula
20. Pardhi (Nirshikari)
21. Pambala
22. Peddammavandlu, Devaravandlu, Yellammavandlu, Mutyalammavandlu (Dammali, Dammal, Dammula, Damala Castes confined to Srikakulam dist. Vide G.O.Ms. No.: 9 BCW(C2) Dept., Dt. 9/04/2008)
23. Veeramushti (Nettikotala), Veera bhadreeya (Amended vide G.O. Ms. No. 62, BCW (M1) Dept., Dt. 10/12/1996)
24. Valmiki boya (Boya, Bedar, Kirataka, Nishadi, Yellapi, Pedda Boya) Talayari 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., Dt. 05.12.1996)
25. Yerukalas in Telangana area (deleted and included in the list of S.Ts)
26. Gudala
27. Kanjara - Bhatta
28. Kalinga (Kinthala deleted vide G.O.Ms. No. 53, SW, Dt. 07.03.1980)
29. Kepmare or Reddika
30. Mondipatta
31. Nokkar
32. Pariki Muggula
33. Yata
34. Chopemari
35. Kaikadi
36. Joshinandiwalas
37. Odde (Oddulu, Vaddi, Vaddelu)
38. Mandula (Govt. Memo No. 40-VI/70-1, Edn., Dt. 10.02.1972)
39. Mehator (Muslim) (Govt. Memo No. 234-VI/72-2, Edn., Dt. 05.07.1972).
40. Kunapuli (Govt. Memo No. 1279/P1/74-10, E&SW, Dt. 03.08.1975)
41. Patra (included in G.O. Ms. No. 8, BCW(C2) Dept., Dt. 28.08.2006)

42. kurakula of Srikakulam, Vizianagaram and Visakhapatnam Districts only. Included vide in G.O.MS.No. 26 BC W (C2) Dept., Dt. 4/07/08
43. Pondara of Srikakulam, Vizianagaram, and Visakhapatnam Districts only. Included vide G.O.MS.No. 28 BC W (C2) Dept., Dt. 4/07/08
44. Samanthula, Samantha, sountia, Sauntia of Srikakulam District only. Included vide G.O.MS.No. 29 BC W (C2) Dept., Dt. 4/07/08
45. pala-Ekari, Ekila, Vyakula, Ekiri, Nayanivaru, Palegaru, Tolagari, Kavali 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
46. Rajannala, Rajannalu of Karimnagar, Warangal, Nizamabad and Adilabad Districts only. (included in vide G.O.Ms. No. 44 B.C.W(C2) Dept., Dt.07/08/2008).
47. Bukka Ayyavars, Included vide G.O.Ms.No. 6 Backward Classes Welfare (C2) Dept., dt. 19/02/2009.
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.
51. Sikligar / Saikalgar, Included vide G.O.Ms.No. 10 Backward Classes Welfare (C2) Dept., dt. 19/02/2009.
52. Poosala included vide G.O. Ms.No. 16 Backward Classes Welfare (C2) Dept., dt. 19/02/2009.

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
2. Aryakshatriya, Chittari , Giniyar, Chitrakara, Nakshas (Muchi Telugu Speaking deleted vide G.O. Ms. No. 31, BCW (M1) Dept., 11.06.1996)
3. Devanga
4. Goud (Ediga) Gouda (Gamella) Kalalee, Goundla, Settibalija of Vishaphapatnam, East Godavari, West Godavari and Krishna Districts and Srisayana (Segidi) – (amended vide G.O. Ms. No. 16, BCW (A1) Dept., dt. 19.06.1997
5. Dudekula, Laddaf, Pinjari or Noorbash
6. Gandla, Telikula, Devatilakula (Amended vide G.O. Ms. No. 13, BCW(A1) Dept., dt. 20.05.1997)
7. Jandra
8. Kummara or Kulala, Salivahana (Salivahana added vide G.O. Ms. No. 28, BCW(M1) Dept., 24.06.1995)
9. Karnabhakthulu, Kaikolan or Kaikala (Sengundam or Sengunther)
10. Karnabhakthulu
11. Kuruba or Kuruma
12. Nagavaddilu
13. Neelakanthi
14. Patkar (Khatri)
15. Perika (Perikabalija, Purasirikshatriya)
16. Nessi or Kurni
17. Padmasali (Sali, Salivan, Pattusali, Senapathulu, Thogata Sali)
18. Srisayana ((segidi)- 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 Silpis)
(Viswakarma added vide G.O. Ms. No. 59 BCW(M1) Dept., Dt. 06.12.1995)
22. Kunchiti, Vakkaliga, Vakkaligara, Kunchitiga of Anantapur Dist. Only vide G.O. Ms.No. 10 BCW(C-2) Dept., Dt. 9-04-2008
23. Lodh, 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
24. Bondili (included in vide G.O.Ms. No. 42, B.C.W(C2) Dept., Dt.07/08/2008)
25. Are Marathi, Maratha(Non-Brahmins), Arakalies and Surabhi Natakavallu. (included in vide G.O.Ms. No. 40, B.C.W(C2) Dept., Dt.07/08/2008)
26. Neeli (included in vide G.O.Ms. No. 43, B.C.W(C2) Dept., Dt.07/08/2008)

GROUP – C

Scheduled Castes converts to Christianity and their progeny
(Substituted in G.O.Ms.No.159, G.A.(Ser.D) Dept., dt. 02/04/1981)

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
14. Surya Balija, (Kalavanthulu) Ganika (amended vide G.O.Ms. No. 20, BCW(P2) Dept., Dt. 19.07.1994)
15. Krishanabalija (Dasari, Bukka)
16. Koppulavelama
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. . . . deleted vide G.O. Ms. No. 15 Backward Classes Welfare (C2) Dept., dt. 28/02/2009.
20. Munnurukapu (Telangana)
21. Nagavamsam (Nagavamsa) vide G.O.Ms.No. 53, BC Welfare Dept., dated:19/09/1996
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. Tammali (confined to five districts of Nalgonda, Mahaboobnagar, Karimnagar, Nizamabad and Adilabad of Telangana Region only and not to other parts of A.P. as amended vide G.O. Ms. No. 20, BCW(A1) Dept., dt 21.07.1997)
30. Turupukapus or Gajula kapus {... the words "of Srikakulam, Vizianagaram and Vishakapatnam 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)
34. Are, Arevally and Arollu of Telangana District (Included vide G.O.Ms.No. 11, Backward Classes Welfare (C-2) Department, dt. 13/5/2003 and G.O.Ms. No. 41, B.C.W(C2) Dept., Dt.07/08/2008)
35. Sadara, Sadaru of Anantapur Dist. Only vide G.O.Ms.No. 11 BCW (C-2) Dept., Dt. 9-04-2008
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 Agamudimudaliar including Thuluva 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.
42. Sondi / Sundi included vide G.O. Ms.No. 11 Backward Classes Welfare (C2) Dept., dt. 19/02/2009.
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.
44. Sistikaranam included vide G.O. Ms.No. 13 Backward Classes Welfare (C2) Dept., dt. 19/02/2009.
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.
46. Veerashaiva Lingayat/Lingabalija, included vide G.O. Ms.No. 22 Backward Classes Welfare (C2) Dept., dt. 28/02/2009.

GROUP – E**(Socially and Educationally Backward Classes of Muslims)**

1. Achchukattalavandlu, Singali, Singamvallu, Achchupanivallu, Achchukattuvaru, Achukatlavandlu.
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, Fhakhir Budbudki, Ghanti, Fhakhir, Ghanta Fhakhiru, Turaka Budbudki, Derves, Fakeer
5. Garadi Muslim, Garadi Saibulu, Pamulavallu, Kani-Kattuvallu, Garadollu, Garadiga.
6. Gosangi Muslim, Phakeer Sayebulu
7. Guddi Eluguvallu, Elugu Bantuvallu, Musalman Keelu Gurravallu
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 Kasha, Kakkukotte Zinka Saibulu, chakkitakanevale, Terugadu Gontalavaru, Thirugatiganta, Rollaku Kakku Kottevaru, Pattar Phodulu, Chakketakare, Thuaka Kasha
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.

FORM FOR COMMUNITY, NATIVITY AND DATE OF BIRTH CERTIFICATE

Serial No.

S.C.

Seal of the

District Code:

S.T

Issuing

Mandal Code :

B.C

Office

Village Code :

Certificate No:

COMMUNITY, NATIVITY AND DATE OF BIRTH CERTIFICATE

(1) This is to certify that Sri/Smt./Kum. _____
 Son/Daughter of Sri _____ of Village/Town _____
 Mandal _____ District _____ of the State of Andhra Pradesh belongs to
 _____ Community which is recognised as (*) S.C./S.T./B.C. sub-group _____

The Constitution (Scheduled Castes) Order, 1950
 The Constitution (Schedule Tribes) Order, 1950

G.O.Ms.No:1793, Education, dated:25.9.1970 as amended from time to time (BCs.) / S.Cs., S.Ts. list (modification) Order, 1956 S.Cs. and S.Ts. (Amendment) Act, 1976.

(2) It is certified that Sri/Smt./Kum. _____ is a native of
 _____ Village/Town _____ Mandal _____ District of Andhra Pradesh.

(3) It is certified that the place of birth of Sri/Smt./Kum. _____ is
 _____ Village/Town _____ Mandal _____ District of Andhra Pradesh.

(4) It is certified that the date of birth of Sri/Smt./Kum. _____ is
 _____ Day _____ Month _____ Year _____ (in words) _____ as per the
 declaration given by his/her father/mother/guardian and as entered in the school records where he/she studied.

Signature:
 Date:
 Name in Capital Letters:
 Designation:
 (seal)

Explanatory Note:- While mentioning the community, the Competent Authority must mention the sub-caste (in case of Scheduled Castes) and sub-tribe or sub-group (in case of Scheduled Tribes) as listed out in the S.Cs. and S.Ts. (Amendment) Act, 1976.

DECLARATION BY THE UN-EMPLOYED
who claim fee exemption , in the age group of 18 to 39 years

1. Name of the Candidate :

2. Father's Name :

3. Date of Birth & Age :

4. Centre for Written Examination

5. Full Postal Address :

I hereby declare that I am not working in any Government Department/ Quasi Government/Public Sector/Private Sector.

I further declare that the information furnished by me is true and correct and my candidature shall be cancelled at any stage if it is found incorrect.

PLACE

DATE

FULL SIGNATURE OF THE CANDIDATE.
(Declaration not signed by the candidate
will be rejected)

SCHOOL STUDY CERTIFICATE

NOTE: Should be obtained from the Head of Educational Institution(s).

1. Name of the Candidate :

2. Father's Name :

3. Date of Birth & Age :

Class	Name and Place of School	District	Duration of Study giving month and year
IV			
V			
VI			
VII			
VIII			
IX			
X or SSC.			

STATION:
DATE:

Signature of the Head of the
Educational Institute(s)

CERTIFICATE OF RESIDENCE

(To be produced by such candidates who have not studied in any educational Institution during the whole or any part* of the relevant 4/7 years period but claim to be local candidates by virtue of residence for Post Codes for which there is reservation for Local candidates.

It is hereby certified.

(a) that Sri/Smt./Kum _____ S/o. W/o.
D/o . _____ appeared for the first time for the Matriculation (S.S.C.)
Examination in _____ (Month) _____ (Year).

(b) That he/she has not studied in any educational institution during the whole/or part of the 4/7 consecutive academic years ending with the academic year in which he/she first appeared for the aforesaid examination.

(c) that in the 4/7 years immediately preceding the commencement of the aforesaid examination he/she resided in the following place/places namely;

Sl.No.	Village	Mandal	District	Period
1.				
2.				
3.				
4.				
5.				

OFFICE SEAL:

STATION:

DATED:

Officer of Revenue Department
not below the rank of Mandal
Revenue Officer holding
independent Charge of a Mandal.

* STRIKE OFF "WHOLE"/PART AS THE CASE MAY BE.

**FORM OF CERTIFICATE TO BE PRODUCED BY BACKWARD CLASSES FOR CLAIMING
RESERVATION AND / OR AGE CONCESSION.**

Serial No.

District Code:
Mandal Code:
Village Code:

Certificate No.

- 1) This is to certify that Sri/Smt/Kum _____ Son/Daughter of
Sri _____ of
Village/Town _____ Mandal _____ District
_____ of the state of Andhra Pradesh belongs to _____ Community
which is recognized as B.C. sub-group _____
- 2) It is certified that Sri/Smt/Kum _____ is a native of
_____ Village/Town _____ Mandal
_____ District of Andhra Pradesh.
- 3) It is certified that the place of birth of Sri/Smt/Kum _____ is
_____ Village/Town _____ Mandal
_____ District of Andhra Pradesh.
- 4) It is certified that the date of birth of Sri/Smt/Kum _____ is
_____ Village/Town _____ Mandal
_____ District of Andhra Pradesh.
- 5) It is certified that Sri/Smt/Kum _____ does not belong to the
section of Creamy layer as per G.O. Ms. No. 3, Backward Classes Welfare (C2)
Department dated 04-04-2006 of the Government of Andhra Pradesh.

(* Strike out if it is not applicable)

Signature:

Date:

Name in Capital Letters:

Designation:

(Seal)

This is for information of the Candidate