

**SRI GURAJADA APPARAO GOVERNMENT DEGREE COLLEGE ,YELAMANCHILI**

**Affiliated to Andhra University**

**Accredited by NAAC with A grade**

**Department of chemistry**

**List of students for project work as mentioned in syllabus of Cluster 3 paper**

| <b>S.No</b> | <b>NAME OF THE STUDENT</b> | <b>REGISTERED NUMBER</b> |
|-------------|----------------------------|--------------------------|
| 1.          | PIKKI ADIRAJU              | 718120105123             |
| 2.          | A.YASHODA LAKSHMI          | 718135405001             |
| 3.          | CH.GANGARAJU               | 718135405007             |
| 4.          | D.DIVYA                    | 718135405011             |
| 5.          | G.LAKSHMI TULASI           | 718135405012             |
| 6.          | G.RANI                     | 718135405014             |
| 7.          | K.APPALARAJU               | 718135405017             |
| 8.          | K.BANGARRAJU               | 718135405018             |
| 9.          | K.SIVA                     | 718135405019             |
| 10.         | K.ANUSHA                   | 718135405020             |
| 11.         | K.R.D.KUMARI               | 718135405021             |
| 12.         | K.SRAVANTHI                | 718135405022             |
| 13.         | PIKKI KOTI                 | 718135405034             |
| 14.         | P.VARALAKSHMI              | 718135405035             |
| 15.         | P.NEERAJA                  | 718135405036             |
| 16.         | R.SAI KUMAR                | 718135405037             |
| 17.         | S.NEELIMA                  | 718135405040             |
| 18.         | T.JYOTHI                   | 718135405042             |
| 19.         | T.SUKANYA                  | 718135405043             |
| 20.         | T.S.V.SAI                  | 718135405044             |

## **I. LABORATORY COURSE – VIII**

**Practical Paper – VIII-B-1: (at the end of semester VI)**

**30 hrs (2 h / W)**

1. Preparation of Aspirin
2. Preparation of Paracetamol
3. Preparation of Acetanilide
4. Preparation of Barbutiric Acid
5. Preparation of Phenyl Azo  $\beta$ -naphthol

## **II. LABORATORY COURSE – VIII**

**Practical Paper – VIII-B-2: (at the end of semester VI)**

**30 hrs (2 h / W)**

1. Green procedure for organic qualitative analysis: Detection of N, S and halogens
2. Acetylation of 1<sup>o</sup> amine by green method: Preparation of acetanilide
3. Rearrangement reaction in green conditions: Benzil-Benzilic acid rearrangement
4. Electrophilic aromatic substitution reaction: Nitration of phenol
5. Radical coupling reaction: Preparation of 1,1-bis -2-naphthol
6. Green oxidation reaction: Synthesis of adipic acid
7. Green procedure for Diels Alder reaction between furan and maleic anhydride

### **List of Reference Books**

1. Green Chemistry Theory and Practice. P.T. Anatas and J.C. Warner
2. Green Chemistry V.K. Ahluwalia Narosa, New Delhi.
3. Real world cases in Green Chemistry M.C. Cann and M.E. Connelly
4. Green Chemistry: Introductory Text M.Lancaster: Royal Society of Chemistry (London)
5. Green Chemistry: Introductory Text, M.Lancaster
6. Principles and practice of heterogeneous catalysis, Thomas J.M., Thomas M.J., John Wiley
7. Green Chemistry: Environmental friendly alternatives R S Sanghli and M.M Srivastava, Narosa Publications

**VII-A-3 Practical:- Project Work / Intern Ship**

① Application of Numerical Integration on 'C' programming.

1. DEVARA NANI BABU (718135405009)
2. MYLAPALLI PARASURAM (5029)
3. SATHA SURESH KUMAR (5038)
4. GANGIRI NOOKA RAJU (5013)

② Gauss Elimination Method

1. KONDELA RAVI KUMAR (5055)
2. GIOLAGANI GANGA APPARAO (5051)
3. NARAVA SIVA PRASAD (5062)

③ Application of Higher Order Differential Equation

1. SARIPALLI VENKATESH (5039)
2. CHEEKATLA HARI (5006)
3. NEERU KONDA JHANSI (5031)

④ Application of First Order Differential Equation

1. MARRI BHARATHI (5028)
2. BODEPU KALPANA (5003)
3. MANDAPAKA YAMUNA (5027)

⑤ A Project Work on Group Theory with Applications in Molecular and Solid State Physics

1. KANITHI ARAVIND (5016)
2. NAMMI NAGAMANI (5030)
3. MAMIDI ANJALI (5025)
4. NUNNA SATYA (5032)
5. BONDA HEMALATHA (5004)
6. PAPPALA SOWJANYA (5033)
7. MAMIDI GOVINDARAO