




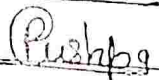
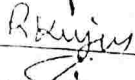




सूचना

दिनांक - 29/02/2024

M.Sc. Chemistry Second Semester के (समस्त) दाखल दाखिलों को सुनिश्चित किया जाता है कि CSIR-NET Exam की Preparation की Class की सुविधा 1 March 2024 से समय 4:30 PM से 5:30 PM तक की जा रही है। अतः आप सभी को उपाध्याय सुनिश्चित करें।

  
 HOD  
 Department of Chemistry  
 Dr. B. K. Nityanand Sai Government  
 College, Aara-Jashpur (C.G.)

- | क्र. दाख - दाखिलों का नाम | हस्ताक्षर   |
|---------------------------|---|
| 1. Alexander              |  |
| 2. Anupram                | अनुप राम  |
| 3. Bharti                 |  |
| 4. Deepika                |  |
| 5. Md. Cufra Khan         |   |
| 6. Hanuman                |   |
| 7. Kapil Kumar            |  |
| 8. Pushpa                 |  |
| 9. Rangana                |  |
| 10. Suskmita              |  |

  
 प्राचार्य  
 डॉ. ब. क. नित्यानन्द साय शास. महाविद्यालय  
 आरा, जिला-जशपुर (उ.प्र.)



# Nayak Nityanand Sai Govt. Collage Aara Dist. – Jashpur (C.G.)

NAAC Grade – C

Affiliated by – Sant Gahira Guru University Sarguja, Ambikapur



Annexure - III

Date - 29/02/2024

## CSIR-NET/SET Tentative Time Table and Schedule

- ❖ Name of Class- “CSIR-NET/SET”
- ❖ Date of Commencement - From 01 March 2024
- ❖ Timming - 4:30 PM to 05:30 PM
- ❖ Tentative Schedule - 01 March 2024 to 30 April 2024 (As per Following)

| S.N. | Unit     | Topic  | Schedule                 |
|------|----------|--|--------------------------|
| 1.   | Unit - 1 | 1. Chemical periodicity.<br>2. Principles of stereochemistry   | 01/03/2024 to 12/03/2024 |
| 2.   | Unit - 2 | 1. Chemical bonding in diatomics; elementary concepts of MO and VB theories.<br>2. Aromaticity.                    | 13/03/2024 to 23/03/2024 |
| 3.   | Unit - 3 | 1. Organic reactive intermediates<br>2. Transition elements and coordination compounds, inner transition elements. | 27/03/2024 to 08/04/2024 |
| 4.   | Unit - 4 | 1. Asymmetric synthesis.<br>2. Chemistry of natural products.<br>3. Structure and bonding (VSEPR Theory).          | 09/04/2024 to 20/04/2024 |
| 5.   | Unit - 5 | 1. Main group elements and their compounds.<br>2. Concepts of acids and bases.                                     | 22/04/2024 to 30/04/2024 |

Mr. B. S. Banjare

Asst. Prof. & HOD Dep. of Chemistry  
Nayak Nityanand Sai Govt. Collage Aara  
Dist. – Jashpur (C.G.)

प्रो. बा. स. बाजारे  
नायक नित्यानन्द साय शास. महाविद्यालय  
आरा, जिला-जशपुर (छ.ग.)



Subject - Chemical Science

Date:   
 Page No:   
 ATTENDANCE

| S.N. | Name               | En. No | Class            | 1        | 2        | 3        | 4        | 5        | 6        |
|------|--------------------|--------|------------------|----------|----------|----------|----------|----------|----------|
| 1    | Alexander Toppo    |        | M.Sc. ITD<br>cam | A Toppo  | A Toppo  |          | A Toppo  | A Toppo  | A Toppo  |
| 2    | Anupram            |        |                  | A Pram   | A Pram   |          | A Pram   | A Pram   | A Pram   |
| 3    | Bharti Yadav       |        |                  | B Yadav  | B Yadav  |          | B Yadav  | B Yadav  | AB5      |
| 4    | Deepika Singh      |        |                  | D Singh  | D Singh  |          | D Singh  | D Singh  | D Singh  |
| 5    | Harmond Chakresh   |        |                  | A BS     | A BS     | Bundling | A BS     | A BS     | A BS     |
| 6    | Kapil Kumar Bhayat |        |                  | K Bhayat | K Bhayat |          | K Bhayat | K Bhayat | K Bhayat |
| 7    | Md. Gufran Khan    |        |                  | G Khan   | G Khan   |          | G Khan   | G Khan   | G Khan   |
| 8    | Pushpa Yadav       |        |                  | P Yadav  | P Yadav  |          | P Yadav  | P Yadav  | P Yadav  |
| 9    | Ranjeeta Kujur     |        |                  | R Kujur  | R Kujur  |          | R Kujur  | R Kujur  | R Kujur  |
| 10   | Sushmita Bai       |        |                  | S Bai    | S Bai    |          | S Bai    | S Bai    | S Bai    |

Department of Chemistry  
 Nityananda Sai Government  
 College, Aara-Jashpur (C.G.)

SHEET (MONTH - MARCH 2024)

Date:   
 Page No: 3

| 7        | 8        | 9        | 10       | 11       | 12       | 13       | 14       | 15       | 16       | 17       | 18       | 19       | 20       | 21       | 22       | 23       | 24       | 25       | 26       | 27       | 28       | 29       | 30       |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| A Toppo  | A Toppo  | A Toppo  | A Toppo  | A Toppo  | A Toppo  | A Toppo  | A Toppo  | AB5      | A Toppo  | A Toppo  | A Toppo  | A Toppo  | A Toppo  | A Toppo  | A Toppo  | A Toppo  | A Toppo  | A Toppo  | A Toppo  | A Toppo  | A Toppo  | A Toppo  | A Toppo  |
| A Pram   | A Pram   | A Pram   | A Pram   | A Pram   | A Pram   | A Pram   | A Pram   | AB5      | A Pram   | A Pram   | A Pram   | A Pram   | A Pram   | A Pram   | A Pram   | A Pram   | A Pram   | A Pram   | A Pram   | A Pram   | A Pram   | A Pram   | A Pram   |
| B Yadav  | B Yadav  | B Yadav  | B Yadav  | B Yadav  | B Yadav  | B Yadav  | B Yadav  | B Yadav  | B Yadav  | B Yadav  | B Yadav  | B Yadav  | B Yadav  | B Yadav  | B Yadav  | B Yadav  | B Yadav  | B Yadav  | B Yadav  | B Yadav  | B Yadav  | B Yadav  | B Yadav  |
| D Singh  | D Singh  | D Singh  | D Singh  | D Singh  | D Singh  | D Singh  | D Singh  | D Singh  | D Singh  | D Singh  | D Singh  | D Singh  | D Singh  | D Singh  | D Singh  | D Singh  | D Singh  | D Singh  | D Singh  | D Singh  | D Singh  | D Singh  | D Singh  |
| A BS     | A BS     | A BS     | A BS     | A BS     | A BS     | A BS     | A BS     | A BS     | A BS     | A BS     | A BS     | A BS     | A BS     | A BS     | A BS     | A BS     | A BS     | A BS     | A BS     | A BS     | A BS     | A BS     | A BS     |
| K Bhayat | K Bhayat | K Bhayat | K Bhayat | K Bhayat | K Bhayat | K Bhayat | K Bhayat | K Bhayat | K Bhayat | K Bhayat | K Bhayat | K Bhayat | K Bhayat | K Bhayat | K Bhayat | K Bhayat | K Bhayat | K Bhayat | K Bhayat | K Bhayat | K Bhayat | K Bhayat | K Bhayat |
| G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   |
| P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  |
| G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   | G Khan   |
| P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  | P Yadav  |
| R Kujur  | R Kujur  | R Kujur  | R Kujur  | R Kujur  | R Kujur  | R Kujur  | R Kujur  | R Kujur  | R Kujur  | R Kujur  | R Kujur  | R Kujur  | R Kujur  | R Kujur  | R Kujur  | R Kujur  | R Kujur  | R Kujur  | R Kujur  | R Kujur  | R Kujur  | R Kujur  | R Kujur  |
| S Bai    | S Bai    | S Bai    | S Bai    | S Bai    | S Bai    | S Bai    | S Bai    | S Bai    | S Bai    | S Bai    | S Bai    | S Bai    | S Bai    | S Bai    | S Bai    | S Bai    | S Bai    | S Bai    | S Bai    | S Bai    | S Bai    | S Bai    | S Bai    |

नायक नित्यानन्द साय सरकारी महाविद्यालय  
 आरा, जिला-जशपुर (C.G.)







| work plane | Date      | work done                                 |
|------------|-----------|---|
|            | 1-03-2024 | Principle of stereochemistry              |
|            | 2-3-24    | isomerism of acyclic & cyclic compounds   |
|            | 4-3-24    | -  - -  -                                 |
|            | 5-3-24    | -  - -  -                                 |
|            | 6-3-24    | Enantioselectivity & diastereoselectivity |
|            | 7-3-24    | -  - -  -                                 |
|            | 9-3-24    | Aromaticity of Benzoid & nonbenzoid comp  |
|            | 11-3-24   | -  - -  -                                 |
|            | 12-3-24   | gemination & reactions                    |
|            | 13-3-24   | -  - -  -                                 |
|            | 14-3-24   | Organic reactive intermediates            |
|            | 15-3-24   | -  - -  - -  -                            |
|            | 16-3-24   | -  - -  - -  -                            |
|            | 18-3-24   | -  - -  - -  -                            |
|            | 19-3-24   | -  - -  - -  -                            |
|            | 20-3-24   | Asymmetric synthesis. chiral auxiliaries. |
|            | 21-3-24   | -  - -  -                                 |
|            | 22-3-24   | -  - -  -                                 |
|            | 23-3-24   | -  - -  -                                 |
|            | 27-3-2024 | Chemistry of natural products             |
|            | 28-3-24   | -  - -  -                                 |
|            | 30-3-24   | -  - -  -                                 |

| Teaching technique | No of student | Remarks           |
|--------------------|---------------|-------------------|
| Present            | 6             |                   |
| ऑनलाइन विधि        | 8             | Sunday            |
| प्रश्नोत्तरी विधि  | 7             | 3, 10, 17, 24     |
| Project method     | 9             | Other Holidays    |
| अभिलेखन विधि       | 9             | 8 march - HOLIDAY |
| google form        | 9             |                   |
| google classroom   | 7             |                   |
|                    | 8             |                   |
|                    | 8             |                   |
|                    | 7             |                   |
|                    | 7             |                   |
|                    | 3             |                   |
|                    | 4             |                   |
|                    | 5             |                   |

PRINCIPAL  
Nayak Nityanand Sai  
Govt. College, AARA  
Dist. Jashpur (C.G.)

Department of Chemistry  
Nayak Nityanand Sai Government  
College, Aara-Jashpur (C.G.)

Teacher Signature

|      |  |  |  |
|------|--|--|--|
| Date |  |  |  |
|------|--|--|--|

|      |  |  |  |
|------|--|--|--|
| Date |  |  |  |
|------|--|--|--|

Theoretical class :- CSTR-NET Chemical Science

Inorganic chemistry

| Date     | Unit NAME           | Work Done   |
|----------|---------------------|---|
| 01/03/24 | Periodic            | Basic of Periodic Table element (s, p, d and f block) |
| 02/03/24 | Properties          | Atomic Radii, Vander Waals, metallic and covalent     |
| 03/03/24 |                     | Sunday  |
| 04/03/24 | ① Ionisation        | Ionisation Energy / Ionisation Potential              |
| 05/03/24 | Energy (I.E)        | Periodic variation and Factor affecting of I.P.       |
| 06/03/24 |                     | Question Practices of I.P.                            |
| 07/03/24 |                     | Charge contraction / Penetration and screening effect |
| 08/03/24 |                     | Manushi Vrat  |
| 09/03/24 | ② Electron          | Electron Affinity. Examples,                          |
| 10/03/24 |                     | Sunday  |
| 11/03/24 | Affinity (E.A)      | Factor affecting of E.A / Electron gain Enthalpy      |
| 12/03/24 |                     | Question practices of E.A / E.W.E                     |
| 13/03/24 |                     | D.P.P Discussion of E.A                               |
| 14/03/24 |                     | P.Y.Q. Solution practices.                            |
| 15/03/24 | ③ Electronegativity | Electronegativity (EN) All-type Example.              |
| 16/03/24 | (EN)                | Periodic variation of EN.                             |
| 17/03/24 |                     | Sunday  |
| 18/03/24 |                     | Exceptional case of EN. and Ques. practices.          |
| 19/03/24 |                     | D.P.P and P.Y.Q discussions of EN.                    |
| 20/03/24 | ④ Lattice           | Introduction and Definition of L.E.                   |
| 21/03/24 | Energy              | Question practices of Lattice Energy                  |
| 22/03/24 |                     | D.P.P discussion and solution                         |
| 23/03/24 |                     | P.Y.Q discussion and solution                         |
| 24/03/24 |                     | Sunday  |
| 25/03/24 |                     | HOLI  |
| 26/03/24 |                     |   |
| 27/03/24 | ⑤ Chemical          | orbitals, s, p, d, f, plane, Node                     |
| 28/03/24 | Bonding.            | Types of Node, Types of orbitals.                     |
| 29/03/24 |                     | ESTER   |
| 30/03/24 |                     | Types of overlapping. Extension of overlapping.       |
| 31/03/24 |                     | Sunday  |

|      |  |  |  |
|------|--|--|--|
| Date |  |  |  |
|------|--|--|--|

|      |  |  |  |
|------|--|--|--|
| Date |  |  |  |
|------|--|--|--|

Page No. US

| No. of students | Teaching method            | Remarks |
|-----------------|----------------------------|---------|
| 8               |                            |         |
| 8               | ① Lectural method          |         |
| 8               | ② Observational method     |         |
| 9               | ③ Question & Answer method |         |
| 8               | ④ D.P.P. Solution          |         |
| 7               | ⑤ P.Y.Q. solution          |         |
| 9               |                            |         |
| 8               |                            |         |
| 6               |                            |         |
| 7               |                            |         |
| 7               |                            |         |
| 8               |                            |         |
| 6               |                            |         |
| 7               |                            |         |
| 8               |                            |         |
| 3               |                            |         |
| 4               |                            |         |
| 6               |                            |         |

**HOD**  
Department of Chemistry  
Alvak Nityanand Sai Government  
College, Aara-Jashpur (C.G.)

**HOD**  
Department of Chemistry  
Alvak Nityanand Sai Government  
College, Aara-Jashpur (C.G.)

**PARMANAND SINHA**  
Guest - Lecturer



Subject /- Tutorial class :- CSTR-NET / 5th Chemical Science  
Inorganic chemistry

|      |  |  |  |
|------|--|--|--|
| Date |  |  |  |
|------|--|--|--|

|          |  |  |  |
|----------|--|--|--|
| Date     |  |  |  |
| Page No. |  |  |  |

|      |  |  |  |
|------|--|--|--|
| Date |  |  |  |
|------|--|--|--|

|          |    |  |  |
|----------|----|--|--|
| Date     |    |  |  |
| Page No. | 49 |  |  |

| Date     | Unit-NAME    | Block Done  | No. OF STUDENTS | Teaching method    | Remark |
|----------|--------------|---|-----------------|--------------------|--------|
| 01/04/24 | Chemical     | Hybridisation, Types of Hybridisation   | 8               |                    |        |
| 02/04/24 | Bonding      | Steric Number calculation, %s character   | 9               | lecturer method    |        |
| 03/04/24 |              | dipole momentum, VSEPR, NBEPR   | 8               | observation method |        |
| 04/04/24 |              | Shape, Geometry, T.B.P P.A.P. etc.  | 9               |                    |        |
| 05/04/24 |              | <del>Block mata karna janti</del>   |                 |                    |        |
| 06/04/24 |              | Back-bonding, Isoelectronic, Isoosteric   | 7               | Q. Question & ans. |        |
| 07/04/24 |              | <del>study</del>  |                 |                    |        |
| 08/04/24 |              | H-H bond, MOT, O <sub>2</sub> , B <sub>2</sub> , Be <sub>2</sub> , H <sub>2</sub>             | 9               | method             |        |
| 09/04/24 |              | N <sub>2</sub> , N <sup>-2</sup> , O <sub>2</sub> <sup>-2</sup> etc. OH, CO, H <sub>2</sub> O | 7               | D.P.P. solution    |        |
| 10/04/24 |              |   |                 |                    |        |
| 11/04/24 |              |   |                 |                    |        |
| 12/04/24 |              | gered & ungered mot Bonding   | 6               | PYQ. Practices     |        |
| 13/04/24 |              | Anti bonding molecular orbital  | 6               |                    |        |
| 14/04/24 |              | <del>study</del>  |                 |                    |        |
| 15/04/24 | ③ Electronic | Microstate, l-s coupling Term symbols   | 5               |                    |        |
| 16/04/24 | spectro part | Beer lambert law, Hydrogen atom   | 6               |                    |        |
| 17/04/24 | -I           | Ram namini  |                 |                    |        |
| 18/04/24 |              | Balmer pasteur series.  | 4               |                    |        |
| 19/04/24 |              | Excitation Energy, Ionization Energy  | 6               |                    |        |
| 20/04/24 |              | Transition Allowed and Forbidden  | 6               |                    |        |
| 21/04/24 |              | <del>study</del>  |                 |                    |        |
| 22/04/24 |              | Laporte, spin allowed, J-J coupling   | 7               |                    |        |
| 23/04/24 |              | Metal complex spin allowed and  | 7               |                    |        |
| 24/04/24 |              | Forbidden, electronic Transition  | 7               |                    |        |
| 25/04/24 | Coordination | Werner theory, VBT, CFT.  | 7               |                    |        |
| 26/04/24 | chemistry    | J.T.T. Application of CFT and   | 9               |                    |        |
| 27/04/24 |              | J.T.T. spinel and inverse spinel  |                 |                    |        |
| 28/04/24 |              | <del>study</del>  |                 |                    |        |
| 29/04/24 |              | Hydration Energy, Lattice energy  | 9               |                    |        |
| 30/04/24 |              | Squr planner structure, ligand  |                 |                    |        |
|          |              | All type question Practices.  |                 |                    |        |


**HOD**  
 Department of Chemistry  
 Govt Nityanand Sai Government  
 College, Aara-Jashpur, (C.G.)


प्राचार्य  
 नयक नित्यनन्द साय शासकीय महाविद्यालय  
 आरा, गिला-जशपुर (छगंग)

*Xinle*  
**PARMANAND SINGH**  
 GUEST-FACULTY

| work plane                  | Date     | work done                                    |    |
|-----------------------------|----------|--|----|
| Chemical periodicity        | 1-4-2024 | Chemical periodicity                         | 80 |
|                             | 2-4-2024 | -  -   | 80 |
|                             | 3-04-24  | -  -   | 80 |
| structure & bonding - VSEPR | 4-04-24  | -  -   | 80 |
|                             | 6-04-24  | -  -   | 80 |
|                             | 8-04-24  | Structure & bonding VSEPR                    | 80 |
|                             | 9-04-24  | -  -   | 80 |
|                             | 12-04-24 | -  -   | 80 |
| Acid-base                   | 13-04-24 | -  -   | 80 |
|                             | 15-04-24 | Concept of acids & bases                     | 80 |
|                             | 16-04-24 | -  -   | 80 |
| main group                  | 18-04-24 | -  -   | 80 |
|                             | 19-04-24 | -  -   | 80 |
|                             | 20-04-24 | Main group elements                          | 80 |
|                             | 22-04-24 | -  -   | 80 |
|                             | 23-04-24 | -  -   | 80 |
|                             | 24-04-24 | -  -   | 80 |
|                             | 25-04-24 | Transition Elements & coordination compounds | 80 |
|                             | 26-04-24 | -  -   | 80 |
|                             | 27-04-24 | -  -   | 80 |
|                             | 29-04-24 | -  -   | 80 |
|                             | 30-04-24 | -  -   | 80 |

| Teaching technique | No of student | Remark                         |
|--------------------|---------------|--------------------------------|
|                    | Present       |                                |
|                    | 08            |                                |
| Current files      | 09            |                                |
| 4th file           | 08            | Sunday - 7, 14, 21, 28         |
| Project method     | 09            |                                |
| 4th file           | 07            | other holidays - 5, 10, 11, 12 |
| google classroom   | 07            |                                |
| google forms       | 07            |                                |
|                    | 06            |                                |
|                    | 05            |                                |
|                    | 05            |                                |
|                    | 06            |                                |
|                    | 05            |                                |
|                    | 06            |                                |
|                    | 07            |                                |
|                    | 07            |                                |
|                    | 07            |                                |
|                    | 05            |                                |
|                    | 07            |                                |
|                    | 09            |                                |
|                    | 08            |                                |
|                    | 09            |                                |

  
 प्राचार्य  
 नयक नित्यानंद सर शास्त्री महाविद्यालय  
 जयपुर, राजस्थान (302001)

  
 HOD  
 Department of Chemistry  
 Nityanand Sar Government  
 College, Jaipur (C.G.)

Dhiraj  
 30/04/2024  
 Teacher Signature