

# **SBS GOVT. P.G. COLLEGE**

## **PIPARIYA**



# **SSR DOCUMENT**

**2018-19 TO 2022-23**

## **CRITERION - 1**

### **Curricular Aspects**

#### **Metrics No. 1.1**

**Document Title:**

**Document related to Curriculum Planning and Delivery  
2019-20**

# Shaheed Bhagat Singh Government P.G. College Pipariya Distt.- Narmadapuram (M.P.)



College Code – 3203

Accredited by NAAC with B+ Grade

AISHE Code – C-35178

Email – [heggpciphos@mp.gov.in](mailto:heggpciphos@mp.gov.in), Website – [www.sbsgovtpgcollegepipariya.in](http://www.sbsgovtpgcollegepipariya.in), Phone/Fax – 07576-220112



कार्यालय प्राचार्य, शहीद भगत सिंह  
शासकीय स्नातकोत्तर महाविद्यालय  
पिपरिया, जिला-नर्मदापुरम् (म.प्र.)  
NAAC द्वारा B+ ग्रेड में प्रमाणित  
ईमेल: [heggpciphos@mp.gov.in](mailto:heggpciphos@mp.gov.in)  
महाविद्यालय कोड: 3203  
फोन/फैक्स: 07576-220112  
वेबसाइट: [www.gpgcpipariya.nic.in](http://www.gpgcpipariya.nic.in)



OFFICE OF THE PRINCIPAL, SHAHEED BHAGAT SINGH  
GOVERNMENT P. G. COLLEGE  
PIPARIYA, DIST-NARMADAPURAM (M.P.)

Accredited by NAAC with B+ Grade  
E-mail: [heggpciphos@mp.gov.in](mailto:heggpciphos@mp.gov.in)  
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PHONE /FAX: 07576-220112  
Website: [www.gpgcpipariya.nic.in](http://www.gpgcpipariya.nic.in)

Ref No. 1440/Est/SBSGPGCP/2024

Pipariya, Date 19.06.2024

## DECLARATION

This is to declare that the information, reports, true copies of supporting documents, numerical data etc. furnished in this file as supporting documents are verified by IQAC and found correct.

  
IQAC Coordinator  
Coordinator (IQAC)  
Internal Quality Assurance Cell  
S. B. S. Govt. P. G. College  
PIPARIYA (M. P.)

  
Principal  
PRINCIPAL  
Shaheed Bhagat Singh Govt. P.G. College  
PIPARIYA (M. P.)

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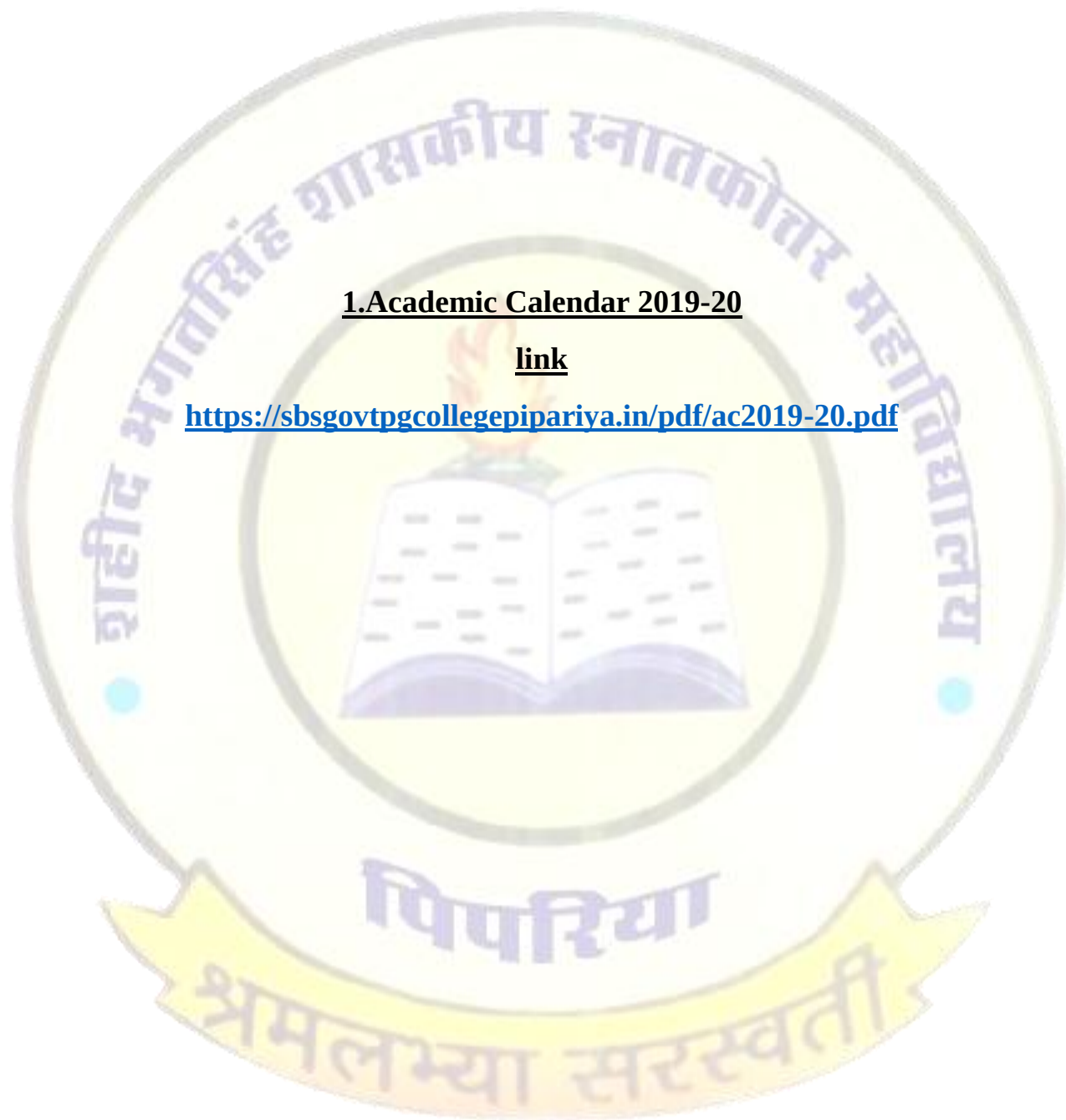
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**1.Academic Calendar 2019-20**

**link**

**<https://sbsgovtpgcollegepipariya.in/pdf/ac2019-20.pdf>**





## 2. Customize academic calendar 2019-20

| MONTH     | ACADEMIC WORK                                                                                                                                                                         | SPORTS                                                     | YOUTH FESTIVAL               | EXTENSION                                                                                                                                   | ACADEMIC ACTIVITIES                                                                                 |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| June      | 1.New Admission<br>2.Annual UG exam and even Semester PG Exam<br>3. Formation of New Academic time Table                                                                              | International Yoga day                                     |                              | International Environment Day- Plantation of trees in the campus                                                                            | webinar                                                                                             |
| July      | 1. Beginning of Classes UG II and UG III year, PG Odd Sem.<br>2.Intraction of new student with faculty member<br>3.Formation of Different Committee for different Academic Activities |                                                            |                              | Introduction to NCC, NSS, Scholarship                                                                                                       | HariyaliMahotsav                                                                                    |
| August    | 1.Regular Classes Starts According to College Level time table<br>2. Beginning of vocational Classes                                                                                  | National Sports day                                        |                              | Independence Day Celebration                                                                                                                | 1.Mentors Registration for self employment Training<br>2.Selection of first Year NCC and NSS Cadets |
| September | 1. CCE of UG and PG Program<br>2. Internship and Project Work Allotment                                                                                                               | [ Collage Level ] Table Tanis [ M/F ]<br>Badminton [ M/F ] |                              |                                                                                                                                             | Teachers Day Celebration by Students                                                                |
| October   | 1.Private Student Enrolment in Progress                                                                                                                                               | [ District Level ] Volleyball [ M/F ]<br>Football [ M/F ]  | College level Youth Festival | 1.Gandhi jayanti Celebration<br>2.Cleaning activities beyond the campus by NSS, NCC, students and college staff<br>3. Unity Day Calibration |                                                                                                     |



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|          |                                                                                                        |                                                                                                 |                                 |                                                                                                        |                                                         |
|----------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| November | 1.CCE of UG and PG Program                                                                             | Handball [ M/F ]<br>Athletics [ M/F ]<br>Kabaddi [M/F]                                          | District level Youth Festival   | 1.Childrens day Celebration<br>2. Blood donation Camp<br>3.BirshaMundajayanti                          | National Seminar / webinar                              |
| December | 1.Regular Classes and Practical Exam [Odd Semester]<br>2.Makhanlal Chaturvedi University Semester Exam | [Divisional level]<br>Athletics[ M/F ]<br>[ District Level ]<br>Kho-Kho[M/F]<br>Cricket [ M/F ] | State level Youth Festival      | Mathematics Day Celebration                                                                            | 1.Beginning of Remedial Classes<br>2.Even Semester Exam |
| January  | 1. CCE UG<br>2. MakhanlalChaturvedi University Semester Exam                                           | [Divisional level]<br>Kho-kho<br>2. Kheloindia Youth Competition                                |                                 | 1.January YuvaUtsav celebration<br>2.Republic day Celebration<br>3. Swami Vivekanand and suraynamaskar | Seminar                                                 |
| February | 1.Regular Classes and Practical Exam<br>2.CCE PG                                                       | Taekwondo [ M/F ]                                                                               | University level Youth Festival | NSS Camp and NCC Camp                                                                                  | webinar                                                 |
| March    | 1.Regular Classes and Practical Exam<br>2.CCE UG and PG                                                |                                                                                                 |                                 | 1.Womens Day Celebration<br>2.Ambedkar Jayanti Celebration                                             | Shaheed Divas                                           |
| April    | 1. Conduct UG and PG practical Exam<br>2.Annual Exam                                                   |                                                                                                 |                                 | Earth day Celebration                                                                                  |                                                         |
| May      | 1.Annual Exam<br>2.MakhanlalChaturvedi University Semester Exam                                        |                                                                                                 |                                 |                                                                                                        | webinar                                                 |

M-Male, F-Female

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## 3. College Timetable 2019-20

| SN | CLASS           | 08:00<br>TO<br>08:40 | 08:40<br>TO<br>09:20 | 9:20<br>TO<br>10:00 | 10:00<br>TO<br>10:40 | 10:40<br>TO<br>11:20 | 11:20 TO<br>12:00                         | 12:00<br>TO<br>12:40 | 12:40<br>TO<br>01:20                                       | 1:20<br>TO<br>02:00                                        | 02:00<br>TO<br>02:40               | 02:40<br>TO<br>03:20        | 3:20<br>TO<br>04:00                                       | 04:00<br>TO<br>04:40 | 04:40<br>TO<br>05:20 |
|----|-----------------|----------------------|----------------------|---------------------|----------------------|----------------------|-------------------------------------------|----------------------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------|-----------------------------|-----------------------------------------------------------|----------------------|----------------------|
| 1  | B SC I MATHS    |                      |                      |                     |                      |                      | Practical<br>MON,TUE-PHY<br>FRI,SAT-CHEM  |                      |                                                            | B-8<br>FC<br>M.T.<br>HINDI<br>W.TH.-<br>ENG.<br>FRI,SAT-   | B-8<br>CHEM<br>B-4<br>COMP         | B-8<br>MATHS                | B-8<br>PHY                                                |                      |                      |
| 2  | B SC I BIO.     |                      |                      |                     |                      |                      |                                           |                      | B-2<br>FC<br>M.T-ENT<br>W.TH.-<br>HINDI<br>FRI,SAT-<br>ENG | Bsc bio/<br>Biotech<br>Bot<br>B-2                          | Bsc bio/<br>Biotech<br>chem<br>B-2 | Bsc zool<br>B-2             | Practical<br>MON,TUE-CHEM<br>WED,THU-BOT<br>FRI,SAT-ZOOL  |                      |                      |
| 3  | B SC I BIOTEC.  |                      |                      |                     |                      |                      |                                           |                      |                                                            |                                                            |                                    | Biotech<br>A-2              | Practical<br>FRI,SAT- BIOTECH                             |                      |                      |
| 4  | B SC II MATHS   |                      |                      |                     |                      |                      | Practical<br>MON,TUE-CHEM<br>WED, THU-PHY |                      |                                                            | B-7<br>FC<br>M.T.<br>HINDI<br>W.TH.-<br>ENG.<br>FRI,SAT-   | Phy<br>B-7                         | Comput<br>B6<br>Chem<br>B-7 | Math<br>B-7                                               |                      |                      |
| 5  | B SC II BIO.    |                      |                      |                     |                      |                      |                                           |                      | B-3<br>ZOO                                                 | B-3<br>FC<br>M.T-ENV<br>W.TH.-<br>HINDI<br>FRI,SAT-<br>ENG | Bsc/Biotc<br>Bot<br>B-3            | Bsc/Biot<br>cChe<br>B-3     | Practical<br>MON,TUE- ZOO<br>WED,THU-CHEM<br>FRI,SAT-BOT. |                      |                      |
| 6  | B SC II BIOTEC. |                      |                      |                     |                      |                      |                                           |                      | A-6<br>BIOTECH                                             |                                                            |                                    |                             | Practical<br>MON TUE- BIOTECH                             |                      |                      |

प्राचार्य

राजकीय स्नातकोत्तर महाविद्यालय

अमरगढ़ (ब.प्र.)

प्राचार्य  
श्रीमती कलाश्री देवी कर्माचार्य  
पिपरिया (म.प्र.)



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| S.N. | CLASS     | 08:00<br>TO<br>08:40       | 08:40<br>TO<br>09:20 | 9:20<br>TO<br>10:00                                                                 | 10:00<br>TO<br>10:40 | 10:40<br>TO<br>11:20       | 11:20 TO<br>12:00 | 12:00<br>TO<br>12:40 | 12:40<br>TO<br>01:20 | 1:20<br>TO<br>02:00 | 02:00<br>TO<br>02:40 | 02:40<br>TO<br>03:20 | 3:20<br>TO<br>04:00 | 04:00<br>TO<br>04:40 | 04:40<br>TO<br>05:20 |
|------|-----------|----------------------------|----------------------|-------------------------------------------------------------------------------------|----------------------|----------------------------|-------------------|----------------------|----------------------|---------------------|----------------------|----------------------|---------------------|----------------------|----------------------|
| 1    | B.C.A I   | PRACTICAL (LAB)<br>MON,TUE |                      | BSA<br>FC<br>M.T.-HINDI<br>W.TH.-ENG.<br>FRI.SAT.-ENT<br>B.COM.I.(C)<br>/BCA I (FC) | A-10                 | A-10                       | A-10              |                      |                      |                     |                      |                      |                     |                      |                      |
| 2    | B.C.A II  | PRACTICAL (LAB)<br>WED,THU |                      | BSA<br>FC<br>M.T.-ENV.<br>W.TH.-HINDI<br>FRI.SAT-ENG<br>B.COM II C<br>/B.C.A II     | A-6                  | A-6                        | A-6               |                      |                      |                     |                      |                      |                     |                      |                      |
| 3    | B.C.A III | A-9                        | A-9                  | BSA<br>FC<br>M.T.-ENG<br>W.TH.-BCIT<br>FRI.SA.HINDI<br>B.COM V/VI C<br>B.C.A V/VI   | A-9                  | PRACTICAL (LAB)<br>FRI,SAT |                   |                      |                      |                     |                      |                      |                     |                      |                      |

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## 4. Department-wise Timetable

GOVT. P. G. COLLEGE PIPARIYA HOSHANGABAD (M.P.)

DEPARTMENT OF PHYSICS

TIME TABLE 2019-20

| DAY | CLASS        | 11.20 - 1.20 | 1.20 - 2.00 | 2.00 - 2.40 | 2.40 - 3.20 | 3.20 - 4.00 | 4.00 - 4.40 |
|-----|--------------|--------------|-------------|-------------|-------------|-------------|-------------|
| MON | BSc I Year   | PR (SN)      |             |             |             | TH (SN)     |             |
|     | BSc II Year  |              |             | TH (SK)     |             |             |             |
|     | BSc III Year |              |             |             | TH (TK)     |             |             |
|     | MSc I Sem.   | PR (SK)      |             | PR (SN)     | TH (SK)     | TH (TK)     |             |
|     | MSc III Sem. | PR (TK)      |             | TH (TK)     | TH (SN)     | TH (SK)     |             |
| TUE | BSc I Year   | PR (SK)      |             |             |             | TH (SN)     |             |
|     | BSc II Year  |              |             | TH (SK)     |             |             |             |
|     | BSc III Year |              |             |             | TH (TK)     |             |             |
|     | MSc I Sem.   | PR (TK)      |             | TH (SN)     | TH (SK)     | TH (TK)     |             |
|     | MSc III Sem. | PR (SN)      |             | TH (TK)     | TH (SN)     | TH (SK)     |             |
| WED | BSc I Year   |              |             |             |             | TH (SN)     |             |
|     | BSc II Year  | PR (SK)      |             | TH (SK)     |             |             |             |
|     | BSc III Year |              |             |             | TH (TK)     |             |             |
|     | MSc I Sem.   | PR (SN)      |             | TH (SN)     | TH (SK)     | TH (TK)     |             |
|     | MSc III Sem. | PR (TK)      |             | TH (TK)     | TH (SN)     | TH (SK)     |             |
| THU | BSc I Year   |              |             |             |             | TH (TK)     |             |
|     | BSc II Year  | PR (TK)      |             | TH (SN)     |             |             |             |
|     | BSc III Year |              |             |             | TH (SK)     |             |             |
|     | MSc I Sem.   | PR (SN)      |             | TH (TK)     | TH (SN)     | TH (SK)     |             |
|     | MSc III Sem. | PR (SK)      |             | TH (SK)     | TH (TK)     | TH (SN)     |             |
| FRI | BSc I Year   |              |             |             |             | TH (TK)     |             |
|     | BSc II Year  |              |             | TH (SN)     |             |             |             |
|     | BSc III Year | PR (TK)      |             |             | TH (SK)     |             |             |
|     | MSc I Sem.   | PR (SK)      |             | TH (TK)     | TH (SN)     | TH (SK)     |             |
|     | MSc III Sem. | PR (SN)      |             | TH (SK)     | TH (TK)     | TH (SN)     |             |
| SAT | BSc I Year   |              |             |             |             | TH (TK)     |             |
|     | BSc II Year  |              |             | TH (SN)     |             |             |             |
|     | BSc III Year | PR (SN)      |             |             | TH (SK)     |             |             |
|     | MSc I Sem.   | PR (SK)      |             | TH (TK)     | TH (SN)     | TH (SK)     |             |
|     | MSc III Sem. | PR (TK)      |             | TH (SK)     | TH (TK)     | TH (SN)     |             |

SN = Dr. Sourabh Nema, SK = Smt. Sangeeta Kahar, TK = Tousheer Khan

Head  
**PHYSICS DEPARTMENT**  
Govt. P. G. College PIPARIYA



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### Govt. P.G.College Pipariya

#### CONSOLIDATED TIME TABLE 2019-20

| S.N. | CLASS      | 08:00 to 08:40 | 08:40 to 09:20                    | 9:20 to 10:00                                                                      | 10:00 to 10:40 | 10:40 to 11:20                               | 11:20 to 12:00                               | 12:00 to 12:40 | 12:40 to 01:20 | 01:20 to 02:00 | 02:00 to 02:40 | 02:40 to 03:20 | 03:20 to 04:00 |
|------|------------|----------------|-----------------------------------|------------------------------------------------------------------------------------|----------------|----------------------------------------------|----------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 1    | B.C.A I    |                | PRACTICAL (LAB)<br>M./T./W.       | B-4<br>FC<br>M.T.-HINDI<br>W.TH.-ENG.<br>FRI.SAT.-ENT<br>B.COM.I (C)<br>/BCAI (FC) | A-10           | A-10                                         | A-10                                         |                |                |                |                |                |                |
| 2    | B.C.A II   |                | PRACTICAL (LAB)<br>TH../FRI./SAT. | B-8<br>FC<br>M.T.-ENV.<br>W.TH.- HINDI<br>FRI.SAT-ENG<br>B.COM II C<br>/B.C.A II   | A-6            | A-6                                          | A-6                                          |                |                |                |                |                |                |
| 3    | B.C.A V/VI | A-11           | A-11                              | A-7<br>FC<br>M.T.-ENG<br>W.TH.-BCIT<br>FRI.SA.HINDI<br>B.COM V/VI C<br>B.C.A V/VI  | A-11           | PRACTICAL<br>(LAB)<br>wed/TH../FR<br>I./SAT. | PRACTICAL<br>(LAB)<br>wed/TH../<br>FRI./SAT. |                |                |                |                |                |                |
| 4    | B.B.A I    |                |                                   |                                                                                    |                | L1                                           | L2                                           | L1             | L1             |                |                |                |                |
| 5    | B.B.A II   |                |                                   |                                                                                    |                | L2                                           | L2                                           | L2             | L2             |                |                |                |                |

*(Signature)*

प्राचार्य  
शा. भ.स. ग.स. महाविद्यालय  
पिपरिया (म.प्र.)





## 5. Remedial Time Table

विश्व बैंक परियोजना के अंतर्गत रेमेडियल कक्षाओं की समय सारणी

माह - नवम्बर 2019

रेमेडियल कक्षा - स्मार्ट रूम

(13/11/2019 से 27/11/2019)

| दिनांक   | विज्ञान संकाय (10.20 से 11.20) |             |                     | वाणिज्य संकाय (11.20 से 12.20) |      |                    | कला संकाय (02.00 से 03.00) |              |                     |
|----------|--------------------------------|-------------|---------------------|--------------------------------|------|--------------------|----------------------------|--------------|---------------------|
|          | कक्षा                          | विषय        | विषय विशेषज्ञ       | कक्षा                          | विषय | विषय विशेषज्ञ      | कक्षा                      | विषय         | विषय विशेषज्ञ       |
| 13-11-19 | B.Sc. II                       | Physics     | Smt. Sangeeta Kahar | B.Com. II                      |      | Dr. S.K. Mehra     | B.A. II                    | History      | Dr. R.R. Rathore    |
| 14-11-19 | B.Sc. II                       | Physics     | Ku. Tushir Khan     | B.Com. II                      |      | Dr. R. C. Dehariya | B.A. II                    | History      | Dr. R.R. Rathore    |
| 15-11-19 | B.Sc. II                       | Botany      | Dr. K.W. Shah       | B.Com. II                      |      | Dr. Arun Mohta     | B.A. II                    | Economics    | Mr. Narendra Hanote |
| 18-11-19 | B.Sc. II                       | Botany      | Dr. Ravi Upadhyay   | B.Com. II                      |      | Smt. Meenu Singh   | B.A. II                    | Economics    | Prof. Ajay Parashar |
| 19-11-19 | B.Sc. II                       | Chemistry   | Prof. A. Kasture    | B.Com. II                      |      | Dr. Arun Mohta     | B.A. II                    | Pol. Science | Dr. R.G. Patel      |
| 20-11-19 | B.Sc. II                       | Chemistry   | Dr. L. N. Malviya   | B.Com. II                      |      | Smt. Meenu Singh   | B.A. II                    | Pol. Science | Dr. J George.       |
| 22-11-19 | B.Sc. II                       | Mathematics | Dr. Kailash Namdev  | B.Com. II                      |      | Dr. S.K. Mehra     | B.A. II                    | Geography    | Dr. Imran Khan      |
| 25-11-19 | B.Sc. II                       | Mathematics | Dr. S.K. Baghel     | B.Com. II                      |      | Dr. R. C. Dehariya | B.A. II                    | Geography    | Dr. Imran Khan      |
| 26-11-19 | B.Sc. II                       | Zoology     | Dr. Asha Tiwari     | B.Com. II                      |      | Dr. Arun Mohta     | B.A. II                    | Hindi Litt.  | Smt. Kavita Namdev  |
| 27-11-19 | B.Sc. II                       | Zoology     | Mr. A.R.S. Rathore  | B.Com. II                      |      | Smt. Meenu Singh   | B.A. II                    | Hindi Litt.  | Smt. Kavita Namdev  |

नोट :- नियमानुसार रेमेडियल कक्षा की वीडियो रिकार्डिंग की जाएगी। कक्षा के उपरान्त शिक्षक को व्याख्यान की प्रति जमा कराना होगी।

सभी प्राध्यापक / सह - प्राध्यापक एवं सहायक प्राध्यापक अपने अपने नाम के सामने हस्ताक्षर करें

  
प्रभारी

  
प्राचार्य  
राष्ट्रीय स्तर पर बहाल कृत  
पिपरीया (म.प्र.)





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विश्व बैंक परियोजना के अंतर्गत रीमेडियल कक्षाओं की समय सारणी

माह - नवम्बर 2019

रीमेडियल कक्षा - स्मार्ट रूम

(13/11/2019 से 27/11/2019)

| दिनांक   | विज्ञान संकाय (10.20 से 11.20) |             |                     | वाणिज्य संकाय (11.20 से 12.20) |      |                    | कला संकाय (02.00 से 03.00) |              |                     |
|----------|--------------------------------|-------------|---------------------|--------------------------------|------|--------------------|----------------------------|--------------|---------------------|
|          | कक्षा                          | विषय        | विषय विशेषज्ञ       | कक्षा                          | विषय | विषय विशेषज्ञ      | कक्षा                      | विषय         | विषय विशेषज्ञ       |
| 13-11-19 | B.Sc. II                       | Physics     | Smt. Sangeeta Kahar | B.Com. II                      |      | Dr. S.K. Mehra     | B.A. II                    | History      | Dr. R.R. Rathore    |
| 14-11-19 | B.Sc. II                       | Physics     | Ku. Tushir Khan     | B.Com. II                      |      | Dr. R. C. Dehariya | B.A. II                    | History      | Dr. R.R. Rathore    |
| 15-11-19 | B.Sc. II                       | Botany      | Dr. K.W. Shah       | B.Com. II                      |      | Dr. Arun Mohta     | B.A. II                    | Economics    | Mr. Narendra Hanote |
| 18-11-19 | B.Sc. II                       | Botany      | Dr. Ravi Upadhyay   | B.Com. II                      |      | Smt. Meenu Singh   | B.A. II                    | Economics    | Prof. Ajay Parashar |
| 19-11-19 | B.Sc. II                       | Chemistry   | Prof. A. Kasture    | B.Com. II                      |      | Dr. Arun Mohta     | B.A. II                    | Pol. Science | Dr. R.G. Patel      |
| 20-11-19 | B.Sc. II                       | Chemistry   | Dr. L. N. Malviya   | B.Com. II                      |      | Smt. Meenu Singh   | B.A. II                    | Pol. Science | Dr. J George.       |
| 22-11-19 | B.Sc. II                       | Mathematics | Dr. Kailash Namdev  | B.Com. II                      |      | Dr. S.K. Mehra     | B.A. II                    | Geography    | Dr. Imran Khan      |
| 25-11-19 | B.Sc. II                       | Mathematics | Dr. S.K. Baghel     | B.Com. II                      |      | Dr. R. C. Dehariya | B.A. II                    | Geography    | Dr. Imran Khan      |
| 26-11-19 | B.Sc. II                       | Zoology     | Dr. Asha Tiwari     | B.Com. II                      |      | Dr. Arun Mohta     | B.A. II                    | Hindi Litt.  | Smt. Kavita Namdev  |
| 27-11-19 | B.Sc. II                       | Zoology     | Mr. A.R.S. Rathore  | B.Com. II                      |      | Smt. Meenu Singh   | B.A. II                    | Hindi Litt.  | Smt. Kavita Namdev  |

नोट :- नियमानुसार रीमेडियल कक्षा की वीडियो रिकार्डिंग की जाएगी। कक्षा के उपरान्त शिक्षक को व्याख्यान की प्रति जमा कराना होगी।

सभी प्राध्यापक / सह-प्राध्यापक एवं सहायक प्राध्यापक अपने अपने नाम के सामने हस्ताक्षर करें

*[Signature]*  
प्रभारी

*[Signature]* 07-11-19  
प्राचार्य  
शाहकीय स्नातकोत्तर महाविद्यालय  
पिपरिया (म.प्र.)

विश्व बैंक परियोजना के अंतर्गत रीमेडियल कक्षाओं की समय सारणी

माह - फरवरी 2020

रीमेडियल कक्षा - स्मार्ट रूम

| दिनांक     | विज्ञान संकाय (11.20 से 12.20) |             |                   | वाणिज्य संकाय (12.20 से 1.20) |      |                 | कला संकाय (02.00 से 03.00) |              |                |
|------------|--------------------------------|-------------|-------------------|-------------------------------|------|-----------------|----------------------------|--------------|----------------|
|            | कक्षा                          | विषय        | विषय विशेषज्ञ     | कक्षा                         | विषय | विषय विशेषज्ञ   | कक्षा                      | विषय         | विषय विशेषज्ञ  |
| 04-02-2020 | B.Sc. II Year                  | Physics     | Mr. Choudhary     | B.Com. II Year                |      | Dr. S.K. Mehra  | B.A. II Year               | Economics    | Dr. Dilaware   |
| 05-02-2020 | B.Sc. II Year                  | Physics     | Dr. A. Singh      | B.Com. II Year                |      | Dr. S.K. Mehra  | B.A. II Year               | Economics    | Dr. Dilaware   |
| 06-02-2020 | B.Sc. II Year                  | Physics     | Dr. S. Nema       | B.Com. II Year                |      | Dr. Rakeshiya   | B.A. II Year               | Economics    | Dr. A. Sen     |
| 07-02-2020 | B.Sc. II Year                  | Botany      | Dr. R. Upadhyay   | B.Com. II Year                |      | Dr. Rakeshiya   | B.A. II Year               | Economics    | Dr. A. Sen     |
| 10-02-2020 | B.Sc. II Year                  | Botany      | Smt. Garima Mehra | B.Com. II Year                |      | Dr. RC Dehariya | B.A. II Year               | Economics    | Prof. Parashar |
| 11-02-2020 | B.Sc. II Year                  | Botany      | Dr. K. W. Shah    | B.Com. II Year                |      | Dr. RC Dehariya | B.A. II Year               | Pol. Science | Dr. George     |
| 12-02-2020 | B.Sc. II Year                  | Chemistry   | Smt. K. Kasture   | B.Com. II Year                |      | Mr. M. Chouksey | B.A. II Year               | Pol. Science | Dr. Patel      |
| 13-02-2020 | B.Sc. II Year                  | Chemistry   | Dr. L.N. Malviya  | B.Com. II Year                |      | Mr. M. Chouksey | B.A. II Year               | Pol. Science | Dr. Mishra     |
| 14-02-2020 | B.Sc. II Year                  | Chemistry   | Ms. Kity Mourya   | B.Com. II Year                |      | Mr. M. Chouksey | B.A. II Year               | Pol. Science | Dr. Mishra     |
| 17-02-2020 | B.Sc. II Year                  | Chemistry   | Mr. Ningwal       | B.Com. II Year                |      | Mr. A. Mohata   | B.A. II Year               | History      | Dr. Rathore    |
| 18-02-2020 | B.Sc. II Year                  | Chemistry   | Dr. S. Piplode    | B.Com. II Year                |      | Mr. A. Mohata   | B.A. II Year               | History      | Dr. Rathore    |
| 19-02-2020 | B.Sc. II Year                  | Mathematics | Dr. K. Wadhwa     | B.Com. II Year                |      | Mr. A. Mohata   | B.A. II Year               | Geography    | Dr. I. Khan    |
| 20-02-2020 | B.Sc. II Year                  | Mathematics | Mr. S.K. Baghel   | B.Com. II Year                |      | Smt Jay Shree   | B.A. II Year               | Geography    | Dr. I. Khan    |
| 24-02-2020 | B.Sc. II Year                  | Mathematics | Dr. Vishwakarma   | B.Com. II Year                |      | Smt Jay Shree   | B.A. II Year               | Hindi Lit.   | Dr. K. Heera   |
| 25-02-2020 | B.Sc. II Year                  | Mathematics | Dr. Vishwakarma   | B.Com. II Year                |      | Smt Jay Shree   | B.A. II Year               | Hindi Lit.   | Mrs. Namdev    |
| 26-02-2020 | B.Sc. II Year                  | Zoology     | Dr. Sunil Kumar   | B.Com. II Year                |      | R. Raghuvanshi  | B.A. II Year               | Hindi Lit.   | Mr. A. Sakhya  |
| 27-02-2020 | B.Sc. II Year                  | Zoology     | Dr. Sunil Kumar   | B.Com. II Year                |      | R. Raghuvanshi  | B.A. II Year               | Sociology    | Ms. Tripathi   |
| 28-02-2020 | B.Sc. II Year                  | Zoology     | Smt. Sumanta      | B.Com. II Year                |      | R. Raghuvanshi  | B.A. II Year               | Sociology    | Ms. Tripathi   |

- नमी नबनियुक्त सहायक प्राध्यापक रीमेडियल कक्षाएं गंभीरता से लें।
- उपस्थिति पत्रक पर छात्रों से हस्ताक्षर लें।
- समय समय पर पी.पी.टी. और दिए जाने वाले व्याख्यान की छायाप्रति छात्र/छात्राओं में वितरित करें।
- विषय का चयन छात्र/छात्राओं की रुचि अनुसार करें।
- व्याख्यान के उपरान्त रजिस्टर में हस्ताक्षर करें।
- आवश्यकतानुसार प्रपत्र प्रभारी से प्राप्त करें।
- प्रति रीमेडियल कक्षा 500 रुपये का भुगतान किया जायेगा।

नोट :- नियमानुसार रीमेडियल कक्षा की वीडियो रिकार्डिंग की जाएगी। कक्षा के उपरान्त शिक्षक को व्याख्यान की प्रति जमा कराना होगी।

सभी प्राध्यापक / सह-प्राध्यापक एवं सहायक प्राध्यापक अपने अपने नाम के सामने हस्ताक्षर करें।

यदि संबंधित शिक्षक अवकाश पर रहते हैं तो इसकी पूर्व सूचना प्रभारी को दे ताकि इसकी वैकल्पिक व्यवस्था की जा सके।

*[Signature]*  
प्रभारी

*[Signature]*  
प्राचार्य  
शाहकीय स्नातकोत्तर महाविद्यालय  
पिपरिया (म.प्र.)



# Shaheed Bhagat Singh Government P.G. College Pipariya Distt.- Narmadapuram (M.P.)



College Code - 3203

Accredited by NAAC with B+ Grade

AISHE Code - C-35178

Email - heggpcpiphos@mp.gov.in, Website - www.sbsgovtpgcollegepipariya.in, Phone/Fax - 07576-220112



माह - मार्च 2020

रेमेडियल कक्षा - वाणिज्य संकाय

| S.N. | DATE       | CLASS         | SUB. | TEACHER         | CLASS          | SUB. | TEACHER         | CLASS           | SUB. | TEACHER         |
|------|------------|---------------|------|-----------------|----------------|------|-----------------|-----------------|------|-----------------|
| 1    | 04-03-2020 | B.Com. I Year |      | Mr. M. Chouksey | B.Com. II Year |      | Dr. Rakeshiya   | B.Com. III Year |      | Dr. RC Dehariya |
| 2    | 05-03-2020 | B.Com. I Year |      | Mr. M. Chouksey | B.Com. II Year |      | Dr. Rakeshiya   | B.Com. III Year |      | Dr. RC Dehariya |
| 3    | 06-03-2020 | B.Com. I Year |      | Mr. M. Chouksey | B.Com. II Year |      | Dr. Rakeshiya   | B.Com. III Year |      | Smt Jay Shree   |
| 4    | 07-03-2020 | B.Com. I Year |      | Dr. Rakeshiya   | B.Com. II Year |      | Mr. A. Mohata   | B.Com. III Year |      | Smt Jay Shree   |
| 5    | 12-03-2020 | B.Com. I Year |      | Dr. Rakeshiya   | B.Com. II Year |      | Mr. A. Mohata   | B.Com. III Year |      | Smt Jay Shree   |
| 6    | 13-03-2020 | B.Com. I Year |      | Dr. RC Dehariya | B.Com. II Year |      | Mr. A. Mohata   | B.Com. III Year |      | R. Raghuwanshi  |
| 7    | 16-03-2020 | B.Com. I Year |      | Dr. RC Dehariya | B.Com. II Year |      | Dr. S.K. Mehra  | B.Com. III Year |      | R. Raghuwanshi  |
| 8    | 17-03-2020 | B.Com. I Year |      | Dr. RC Dehariya | B.Com. II Year |      | Dr. S.K. Mehra  | B.Com. III Year |      | R. Raghuwanshi  |
| 9    | 18-03-2020 | B.Com. I Year |      | Mr. A. Mohata   | B.Com. II Year |      | Mr. M. Chouksey | B.Com. III Year |      | Dr. S.K. Mehra  |
| 10   | 19-03-2020 | B.Com. I Year |      | Mr. A. Mohata   | B.Com. II Year |      | Mr. M. Chouksey | B.Com. III Year |      | Dr. S.K. Mehra  |
| 11   | 20-03-2020 | B.Com. I Year |      | Mr. A. Mohata   | B.Com. II Year |      | Mr. M. Chouksey | B.Com. III Year |      | Dr. S.K. Mehra  |
| 12   | 21-03-2020 | B.Com. I Year |      | Smt Jay Shree   | B.Com. II Year |      | Dr. RC Dehariya | B.Com. III Year |      | Mr. A. Mohata   |
| 13   | 23-03-2020 | B.Com. I Year |      | Smt Jay Shree   | B.Com. II Year |      | Dr. RC Dehariya | B.Com. III Year |      | Mr. A. Mohata   |
| 14   | 24-03-2020 | B.Com. I Year |      | Smt Jay Shree   | B.Com. II Year |      | Dr. RC Dehariya | B.Com. III Year |      | Mr. A. Mohata   |
| 15   | 25-03-2020 | B.Com. I Year |      | Dr. S.K. Mehra  | B.Com. II Year |      | R. Raghuwanshi  | B.Com. III Year |      | Dr. Rakeshiya   |
| 16   | 26-03-2020 | B.Com. I Year |      | Dr. S.K. Mehra  | B.Com. II Year |      | R. Raghuwanshi  | B.Com. III Year |      | Dr. Rakeshiya   |
| 17   | 27-03-2020 | B.Com. I Year |      | Dr. S.K. Mehra  | B.Com. II Year |      | R. Raghuwanshi  | B.Com. III Year |      | Dr. Rakeshiya   |
| 18   | 28-03-2020 | B.Com. I Year |      | R. Raghuwanshi  | B.Com. II Year |      | Smt Jay Shree   | B.Com. III Year |      | Mr. M. Chouksey |
| 19   | 30-03-2020 | B.Com. I Year |      | R. Raghuwanshi  | B.Com. II Year |      | Smt Jay Shree   | B.Com. III Year |      | Mr. M. Chouksey |
| 20   | 31-03-2020 | B.Com. I Year |      | R. Raghuwanshi  | B.Com. II Year |      | Smt Jay Shree   | B.Com. III Year |      | Mr. M. Chouksey |

1. सभी नवनिर्भूत सहायक प्राध्यापक रेमेडियल कक्षाएं गंभीरता से लें। 2. उपस्थिति पत्रक पर छात्रों से हस्ताक्षर लें। 3. समय समय पर पी.पी.टी. और दिए जाने वाले व्याख्यान की छात्रांश छात्र/छात्राओं में वितरित करें। 4. विषय का चयन छात्र/छात्राओं की रुचि अनुसार करें। 5. व्याख्यान के उपरांत रजिस्टर में हस्ताक्षर करें। 6. आवश्यकतानुसार प्रश्न प्रश्नोत्तर से प्रश्न करें। 7. प्रति रेमेडियल कक्षा 500 रुपये का भुगतान किया जायेगा।

नोट :- नियमानुसार रेमेडियल कक्षा की वीडियो रिकार्डिंग की जाएगी। कक्षा के उपरान्त शिक्षक को व्याख्यान की प्रति जमा कराना होगी। सभी प्राध्यापक/सह-प्राध्यापक एवं सहायक प्राध्यापक अपने अपने नाम के सामने हस्ताक्षर करें। यदि संबंधित शिक्षक अवकाश पर रहते हैं तो इसकी पूर्व सूचना प्रभारी को दें ताकि इसकी वैकालिक व्यवस्था की जा सके।

*[Signature]*  
प्रभारी

o/c

*[Signature]*  
प्राचार्य





# Shaheed Bhagat Singh Government P.G. College Pipariya Distt.- Narmadapuram (M.P.)



College Code - 3203

Accredited by NAAC with B+ Grade

AISHE Code - C-35178



Email - heggpcpiparos@mp.gov.in, Website - www.sbsgovtpgcollegepipariya.in, Phone/Fax - 07576-220112

## विश्व बैंक परियोजना के अंतर्गत रेमेडियल कक्षाओं की समय सारणी

माह - मार्च 2020

### रेमेडियल कक्षा - विज्ञान संकाय

| S.N. | DATE       | CLASS        | SUBJECT   | TEACHER           | CLASS         | SUBJECT   | TEACHER           | CLASS          | SUBJECT   | TEACHER           |
|------|------------|--------------|-----------|-------------------|---------------|-----------|-------------------|----------------|-----------|-------------------|
| 1    | 04-03-2020 | B.Sc. I Year | Maths     | Dr. S.K. Baghel   | B.Sc. II Year | Physics   | Mr. Choudhary     | B.Sc. III Year | Chemistry | Smt. K. Kasture   |
| 2    | 05-03-2020 | B.Sc. I Year | Maths     | Dr. K. Wadhwa     | B.Sc. II Year | Physics   | Dr. A. Singh      | B.Sc. III Year | Chemistry | Dr. L.N. Malviya  |
| 3    | 06-03-2020 | B.Sc. I Year | Maths     | Dr. Vishwakarma   | B.Sc. II Year | Physics   | Dr. S. Nema       | B.Sc. III Year | Chemistry | Ms. Kity Mourya   |
| 4    | 07-03-2020 | B.Sc. I Year | Maths     | Dr. Vishwakarma   | B.Sc. II Year | Physics   | Dr. A. Singh      | B.Sc. III Year | Chemistry | Mr. Ningwal       |
| 5    | 12-03-2020 | B.Sc. I Year | Physics   | Mr. Choudhary     | B.Sc. II Year | Maths     | Dr. S.K. Baghel   | B.Sc. III Year | Chemistry | Dr. S. Piplode    |
| 6    | 13-03-2020 | B.Sc. I Year | Physics   | Dr. A. Singh      | B.Sc. II Year | Maths     | Dr. K. Wadhwa     | B.Sc. III Year | Chemistry | Ms. Kity Mourya   |
| 7    | 16-03-2020 | B.Sc. I Year | Physics   | Dr. S. Nema       | B.Sc. II Year | Maths     | Dr. Vishwakarma   | B.Sc. III Year | Botany    | Smt. G. Mehra     |
| 8    | 17-03-2020 | B.Sc. I Year | Zoology   | Dr. Sunil Kumar   | B.Sc. II Year | Maths     | Dr. Vishwakarma   | B.Sc. III Year | Botany    | Dr. R. Upadhyay   |
| 9    | 18-03-2020 | B.Sc. I Year | Zoology   | Dr. Sunil Kumar   | B.Sc. II Year | Chemistry | Smt. K. Kasture   | B.Sc. III Year | Botany    | Dr. K. W. Shah    |
| 10   | 19-03-2020 | B.Sc. I Year | Zoology   | Smt. Sumanta      | B.Sc. II Year | Chemistry | Dr. L.N. Malviya  | B.Sc. III Year | Zoology   | Dr. Sunil Kumar   |
| 11   | 20-03-2020 | B.Sc. I Year | Zoology   | Dr. Pragati Joshi | B.Sc. II Year | Chemistry | Ms. Kity Mourya   | B.Sc. III Year | Zoology   | Smt. Sumanta      |
| 12   | 21-03-2020 | B.Sc. I Year | Botany    | Smt. G. Mehra     | B.Sc. II Year | Chemistry | Mr. Ningwal       | B.Sc. III Year | Zoology   | Smt. Sumanta      |
| 13   | 23-03-2020 | B.Sc. I Year | Botany    | Smt. G. Mehra     | B.Sc. II Year | Chemistry | Dr. S. Piplode    | B.Sc. III Year | Zoology   | Dr. Pragati Joshi |
| 14   | 24-03-2020 | B.Sc. I Year | Botany    | Dr. R. Upadhyay   | B.Sc. II Year | Zoology   | Dr. Sunil Kumar   | B.Sc. III Year | Physics   | Mr. Choudhary     |
| 15   | 25-03-2020 | B.Sc. I Year | Botany    | Dr. K. W. Shah    | B.Sc. II Year | Zoology   | Smt. Sumanta      | B.Sc. III Year | Physics   | Mr. Choudhary     |
| 16   | 26-03-2020 | B.Sc. I Year | Chemistry | Smt. K. Kasture   | B.Sc. II Year | Zoology   | Dr. Pragati Joshi | B.Sc. III Year | Physics   | Dr. S. Nema       |
| 17   | 27-03-2020 | B.Sc. I Year | Chemistry | Dr. L.N. Malviya  | B.Sc. II Year | Zoology   | Dr. Pragati Joshi | B.Sc. III Year | Physics   | Dr. A. Singh      |
| 18   | 28-03-2020 | B.Sc. I Year | Chemistry | Ms. Kity Mourya   | B.Sc. II Year | Botany    | Smt. G. Mehra     | B.Sc. III Year | Maths     | Dr. S.K. Baghel   |
| 19   | 30-03-2020 | B.Sc. I Year | Chemistry | Mr. Ningwal       | B.Sc. II Year | Botany    | Dr. R. Upadhyay   | B.Sc. III Year | Maths     | Dr. K. Wadhwa     |
| 20   | 31-03-2020 | B.Sc. I Year | Chemistry | Dr. S. Piplode    | B.Sc. II Year | Botany    | Dr. K. W. Shah    | B.Sc. III Year | Maths     | Dr. Vishwakarma   |

- सभी नवनिर्भूत सहायक प्राध्यापक रेमेडियल कक्षाएं गंभीरता से लें। 2. उपस्थिति पत्र पर छात्रों से हस्ताक्षर लें। 3. समय समय पर पी.पी.टी. और दिए जाने वाले व्याख्यान की छायाप्रति छात्र/छात्राओं में वितरित करें। 4. विषय का चयन छात्र/छात्राओं की रुचि अनुसार करें। 5. व्याख्यान के उपरांत रजिस्टर में हस्ताक्षर करें। 6. आवश्यकतानुसार प्रश्न प्रभारी से प्राप्त करें। 7. प्रति रेमेडियल कक्षा 500 रुपये का भुगतान किया जायेगा।

नोट :- नियमानुसार रेमेडियल कक्षा की वीडियो रिकार्डिंग की जाएगी। कक्षा के उपरान्त शिक्षक को व्याख्यान की प्रति जमा कराना होगी। सभी प्राध्यापक / सह-प्राध्यापक एवं सहायक प्राध्यापक अपने अपने नाम के सामने हस्ताक्षर करें। यदि संबंधित शिक्षक अवकाश पर रहते हैं तो इसकी पुर्व सूचना प्रभारी को दें ताकि इसकी वैकालिक व्यवस्था की जा सके।

*Bhagat Singh*

*01/03*

*Kasture*  
प्रभारी

## विश्व बैंक परियोजना के अंतर्गत रेमेडियल कक्षाओं की समय सारणी

माह - मार्च 2020

### रेमेडियल कक्षा - कला संकाय

| S.N. | DATE       | CLASS       | SUBJECT      | TEACHER        | CLASS        | SUBJECT      | TEACHER        | CLASS         | SUBJECT      | TEACHER        |
|------|------------|-------------|--------------|----------------|--------------|--------------|----------------|---------------|--------------|----------------|
| 1    | 04-03-2020 | B.A. I Year | Geography    | Dr. I. Khan    | B.A. II Year | Economics    | Dr. A. Sen     | B.A. III Year | Hindi        | Dr. K. Heera   |
| 2    | 05-03-2020 | B.A. I Year | Geography    | Dr. I. Khan    | B.A. II Year | Economics    | Dr. A. Sen     | B.A. III Year | Hindi        | Mrs. Namdev    |
| 3    | 06-03-2020 | B.A. I Year | Geography    | Ms. R. Katre   | B.A. II Year | Economics    | Dr. Dilaware   | B.A. III Year | Hindi        | Mr. A. Sakhya  |
| 4    | 07-03-2020 | B.A. I Year | Sociology    | Ms. Tripathi   | B.A. II Year | Economics    | Dr. Dilaware   | B.A. III Year | Pol. Science | Dr. George     |
| 5    | 12-03-2020 | B.A. I Year | Sociology    | Ms. Tripathi   | B.A. II Year | Economics    | Prof. Parashar | B.A. III Year | Pol. Science | Dr. George     |
| 6    | 13-03-2020 | B.A. I Year | Economics    | Dr. A. Sen     | B.A. II Year | Hindi        | Dr. K. Heera   | B.A. III Year | Pol. Science | Dr. Patel      |
| 7    | 16-03-2020 | B.A. I Year | Economics    | Dr. A. Sen     | B.A. II Year | Hindi        | Mrs. Namdev    | B.A. III Year | Pol. Science | Dr. Mishra     |
| 8    | 17-03-2020 | B.A. I Year | Economics    | Dr. Dilaware   | B.A. II Year | Hindi        | Mr. A. Sakhya  | B.A. III Year | Pol. Science | Dr. Mishra     |
| 9    | 18-03-2020 | B.A. I Year | Economics    | Dr. Dilaware   | B.A. II Year | Pol. Science | Dr. George     | B.A. III Year | Pol. Science | Dr. Mishra     |
| 10   | 19-03-2020 | B.A. I Year | Economics    | Prof. Parashar | B.A. II Year | Pol. Science | Dr. George     | B.A. III Year | Geography    | Dr. I. Khan    |
| 11   | 20-03-2020 | B.A. I Year | History      | Dr. Rathore    | B.A. II Year | Pol. Science | Dr. Patel      | B.A. III Year | Geography    | Dr. I. Khan    |
| 12   | 21-03-2020 | B.A. I Year | History      | Dr. Rathore    | B.A. II Year | Pol. Science | Dr. Patel      | B.A. III Year | Geography    | Ms. R. Katre   |
| 13   | 23-03-2020 | B.A. I Year | Hindi        | Dr. K. Heera   | B.A. II Year | Pol. Science | Dr. Mishra     | B.A. III Year | Economics    | Dr. A. Sen     |
| 14   | 24-03-2020 | B.A. I Year | Hindi        | Mrs. Namdev    | B.A. II Year | Geography    | Dr. I. Khan    | B.A. III Year | Economics    | Dr. A. Sen     |
| 15   | 25-03-2020 | B.A. I Year | Hindi        | Mr. A. Sakhya  | B.A. II Year | Geography    | Ms. R. Katre   | B.A. III Year | Economics    | Dr. Dilaware   |
| 16   | 26-03-2020 | B.A. I Year | Pol. Science | Dr. George     | B.A. II Year | Geography    | Ms. R. Katre   | B.A. III Year | Economics    | Dr. Dilaware   |
| 17   | 27-03-2020 | B.A. I Year | Pol. Science | Dr. George     | B.A. II Year | Sociology    | Ms. Tripathi   | B.A. III Year | Economics    | Prof. Parashar |
| 18   | 28-03-2020 | B.A. I Year | Pol. Science | Dr. Patel      | B.A. II Year | Sociology    | Ms. Tripathi   | B.A. III Year | History      | Dr. Rathore    |
| 19   | 30-03-2020 | B.A. I Year | Pol. Science | Dr. Patel      | B.A. II Year | History      | Dr. Rathore    | B.A. III Year | History      | Dr. Rathore    |
| 20   | 31-03-2020 | B.A. I Year | Pol. Science | Dr. Mishra     | B.A. II Year | History      | Dr. Rathore    | B.A. III Year | Sociology    | Ms. Tripathi   |

- सभी नवनिर्भूत सहायक प्राध्यापक रेमेडियल कक्षाएं गंभीरता से लें। 2. उपस्थिति पत्र पर छात्रों से हस्ताक्षर लें। 3. समय समय पर पी.पी.टी. और दिए जाने वाले व्याख्यान की छायाप्रति छात्र/छात्राओं में वितरित करें। 4. विषय का चयन छात्र/छात्राओं की रुचि अनुसार करें। 5. व्याख्यान के उपरांत रजिस्टर में हस्ताक्षर करें। 6. आवश्यकतानुसार प्रश्न प्रभारी से प्राप्त करें। 7. प्रति रेमेडियल कक्षा 500 रुपये का भुगतान किया जायेगा।

नोट :- नियमानुसार रेमेडियल कक्षा की वीडियो रिकार्डिंग की जाएगी। कक्षा के उपरान्त शिक्षक को व्याख्यान की प्रति जमा कराना होगी। सभी प्राध्यापक / सह-प्राध्यापक एवं सहायक प्राध्यापक अपने अपने नाम के सामने हस्ताक्षर करें। यदि संबंधित शिक्षक अवकाश पर रहते हैं तो इसकी पुर्व सूचना प्रभारी को दें ताकि इसकी वैकालिक व्यवस्था की जा सके।

*Bhagat Singh*

*01/03*



# Shaheed Bhagat Singh Government P.G. College Pipariya Distt.- Narmadapuram (M.P.)



College Code - 3203

Accredited by NAAC with B+ Grade

AISHE Code - C-35178

Email - heggpciphos@mp.gov.in, Website - www.sbsgovtcollegepipariya.in, Phone/Fax - 07576-220112



## Shaheed Bhagat Singh Govt. P.G. College Pipariya Time Table (Online Remedial Classes) Arts Stream December (2020)

| S.No. | Date       | Class    | Subject           | Timing    | Teacher             |
|-------|------------|----------|-------------------|-----------|---------------------|
| 1     | 21-12-2020 | B.A. I   | Hindi             | 3:30-4:15 | Kavita Namdev       |
| 2     | 22-12-2020 | B.A. II  | Sociology         | 3:30-4:15 | Ms. Swati Tripathi  |
| 3     | 23-12-2020 | B.A. III | Political Science | 3:30-4:15 | Dr. Janet George    |
| 4     | 24-12-2020 | B.A. I   | Geo.              | 3:30-4:15 | Dr. Imran Khan      |
| 5     | 26-12-2020 | B.A. II  | History           | 3:30-4:15 | Dr. R.R. rathore    |
| 6     | 26-12-2020 | B.A. I   | English           | 3:30-4:15 | Mrs. Nimya Kanakraj |
| 7     | 28-12-2020 | B.A. III | Economics         | 3:30-4:15 | Dr. D.K. meshram    |
| 8     | 28-12-2020 | B.A. II  | Environment       | 3:30-4:15 | Mr. rajendra katre  |
| 9     | 29-12-2020 | M.A. I   | Hindi             | 3:30-4:15 | Dr. Kiran Heera     |
| 10    | 29-12-2020 | M.A. I   | Pol. Sci          | 3:30-4:15 | Dr. R.G. Patel      |
| 11    | 29-12-2020 | M.A. I   | Economics         | 3:30-4:15 | Dr. Rakesh Dilaware |
| 12    | 30-12-2020 | M.A. III | Hindi             | 3:30-4:15 | Mrs. Kavita Namdev  |
| 13    | 30-12-2020 | M.A. III | Pol. Sci          | 3:30-4:15 | Dr. Jenet George    |
| 14    | 30-12-2020 | M.A. III | Economics         | 3:30-4:15 | Dr. Aneeta Sen      |
| 15    | 31-12-2020 | B.A. III | BCIT              | 3:30-4:15 | Mr. Anil Rai        |

नोट- 1. रेमेडियल कक्षा का शिक्षण समय 45 मिनट एवं 15 मिनट विषय पर चर्चा हेतु रहेगा।

2. रेमेडियल कक्षा में असाइनमेंट्स, प्रॉब्लम सोल्विंग, विचार एवं मूल्यांकन आवश्यक रूप से शामिल रहेंगे।

3. रेमेडियल कक्षा के एक दिन पहले विद्यार्थियों को रीडिंग मटेरियल उपलब्ध कराना अनिवार्य है।

4. रेमेडियल कक्षा के स्क्रीनशॉट ले कर [online Remedial@gmail.com](mailto:online Remedial@gmail.com) पर भेजना अनिवार्य है।

5. स्क्रीन शॉट में विद्यार्थियों की उपस्थिति अंकित होना सुनिश्चित करें।

6. कक्षा के उपरान्त प्रतिदिन रसायन शास्त्र विभाग में सम्बंधित रजिस्टर में हस्ताक्षर करें।

रेमेडियल कक्षा प्रभारी

  
शाहीद भगतसिंह शास्त्र विभाग, महाविद्यालय  
पिपरिया (म.प्र.)

# Shaheed Bhagat Singh Government P.G. College Pipariya Distt.- Narmadapuram (M.P.)



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## Shaheed Bhagat Singh Govt. P.G. College Pipariya Time Table (Online Remedial Classes) Commerce Stream (December 2020)

| S.No. | Date       | Class     | Subject      | Timing    | Teacher            |
|-------|------------|-----------|--------------|-----------|--------------------|
| 1     | 21-12-2020 | B.Com. I  | Commerce     | 2:00-2:45 | Ms. Ankita patel   |
| 2     | 22-12-2020 | B.Com II  | Commerce     | 2:00-2:45 | Mr.M Chouksey      |
| 3     | 23-12-2020 | B.Com III | Commerce     | 2:00-2:45 | Dr. Rakeshiya      |
| 4     | 24-12-2020 | M.Com I   | Commerce     | 2:00-2:45 | Dr. Mehra          |
| 5     | 26-12-2020 | M.Com III | Commerce     | 2:00-2:45 | Dr. Daheriya       |
| 6     | 26-12-2020 | B.Com I   | Hindi        | 2:00-2:45 | Dr. Kiran Heera    |
| 7     | 28-12-2020 | B.Com II  | Commerce     | 2:00-2:45 | Dr. Daheriya       |
| 8     | 28-12-2020 | B.Com III | Commerce     | 2:00-2:45 | Ms. Ankita Patel   |
| 9     | 29-12-2020 | B.ComII   | Environment  | 2:00-2:45 | Mr. R. Katre       |
| 10    | 29-12-2020 | B.Com I   | Enterprenuer | 2:00-2:45 | Mrs. Parmial verma |
| 11    | 29-12-2020 | B.Com III | Hindi        | 2:00-2:45 | Dr. Kiran Heera    |
| 12    | 30-12-2020 | M.Com I   | Commerce     | 2:00-2:45 | Mr. M. Chouksey    |
| 13    | 30-12-2020 | M.Com III | Commerce     | 2:00-2:45 | Dr. Rakeshiya      |
| 14    | 30-12-2020 | M.Com I   | Commerce     | 2:00-2:45 | Dr. Daheriya       |
| 15    | 31-12-2020 | M.Com III | Commerce     | 2:00-2:45 | Dr. Mehra          |

नोट- 1. रेमेडियल कक्षा का शिक्षण समय 45 मिनट एवं 15 मिनट विषय पर चर्चा हेतु रहेगा।

2. रेमेडियल कक्षा में असाइनमेंट्स, प्रॉब्लम सोल्विंग, विचार एवं मूल्यांकन आवश्यक रूप से शामिल रहेंगे।

3. रेमेडियल कक्षा के एक दिन पहले विद्यार्थियों को रीडिंग मटेरियल उपलब्ध कराना अनिवार्य है।

4. रेमेडियल कक्षा के स्क्रीनशॉट ले कर [online Remedial@gmail.com](mailto:online Remedial@gmail.com) पर भेजना अनिवार्य है।

5. स्क्रीन शॉट में विद्यार्थियों की उपस्थिति अंकित होना सुनिश्चित करे।

6. कक्षा के उपरांत प्रतिदिन रसायन शास्त्र विभाग में सम्बंधित रजिस्टर में हस्ताक्षर करें।

रेमेडियल कक्षा प्रभारी

प्रभारी



# Shaheed Bhagat Singh Government P.G. College Pipariya Distt.- Narmadapuram (M.P.)



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## Shaheed Bhagat Singh Govt. P.G. College Pipariya Time Table (Online Remedial Classes) Science Stream(December 2020)

| S.No. | Date       | Class     | Subject   | Timing     | Teacher               |
|-------|------------|-----------|-----------|------------|-----------------------|
| 1     | 21-12-2020 | B.Sc. III | Zoology   | 12:40-1:25 | Dr. Sunil Kumar       |
| 2     | 21-12-2020 | B.Sc. III | Maths     | 12:40-1:25 | Dr. Ravi Vishwakarma  |
| 3     | 22-12-2020 | B.Sc. I   | Chemistry | 12:40-1:25 | Mr. Basant Ningwal    |
| 4     | 22-12-2020 | B.Sc. I   | Computer  | 12:40-1:25 | Mr. Anil Rai          |
| 5     | 23-12-2020 | B.Sc. II  | Botany    | 12:40-1:25 | Mrs. Garima Mehra     |
| 6     | 23-12-2020 | B.Sc. II  | Physics   | 12:40-1:25 | Dr. Ambika Singh      |
| 7     | 24-12-2020 | M.Sc. I   | Botany    | 12:40-1:25 | Dr. K.W. Shah         |
| 8     | 24-12-2020 | M.Sc. I   | Chemistry | 12:40-1:25 | Dr. S. Plode          |
| 9     | 24-12-2020 | M.Sc. I   | Zoology   | 12:40-1:25 | Dr. Pragati Joshi     |
| 10    | 24-12-2020 | B.Sc. II  | FC II     | 12:40-1:25 | Mrs. Nimya Kanakraj   |
| 11    | 24-12-2020 | M.Sc. I   | Maths     | 12:40-1:25 | Dr. S.K., Baghel      |
| 12    | 26-12-2020 | M.sc. III | Maths     | 12:40-1:25 | Dr. Ravi Vishwakarma  |
| 13    | 26-12-2020 | M.sc. III | Chemistry | 12:40-1:25 | Miss. Kity Maurya     |
| 14    | 26-12-2020 | M.Sc. III | Physics   | 12:40-1:25 | Dr. Rashmi Patel      |
| 15    | 26-12-2020 | M.Sc. III | Maths     | 12:40-1:25 | Dr. Kamal Wadhwa      |
| 16    | 26-12-2020 | B.Sc. III | Biotech   | 12:40-1:25 | Mr. Vinod Manjhi      |
| 17    | 26-12-2020 | B.Sc. I   | FC I      | 12:40-1:25 | Mrs. Kavita namdev    |
| 18    | 26-12-2020 | M.Sc. I   | Physics   | 12:40-1:25 | Dr. Brajesh Choudhary |
| 19    | 26-12-2020 | B.Sc. III | FC III    | 12:40-1:25 | Mrs. Shweta Soni      |

नोट- 1. रेमेडियल कक्षा का शिक्षण समय 45 मिनट एवं 15 मिनट बिगस पर चर्चा हेतु रहेगा।

2. रेमेडियल कक्षा में असाइनमेंट्स, प्रॉब्लम सोल्विंग, विचार एवं मूल्यांकन आवश्यक रूप से शामिल रहेंगे।

3. रेमेडियल कक्षा के एक दिन पहले विद्यार्थियों को रीडिंग मटेरियल उपलब्ध कराना अनिवार्य है।

4. रेमेडियल कक्षा के स्क्रीनशॉट ले कर [online Remedial@gmail.com](mailto:online Remedial@gmail.com) पर भेजना अनिवार्य है।

5. स्क्रीन शॉट में विद्यार्थियों की उपस्थिति अंकित होना सुनिश्चित करें।

6. कक्षा के उपरांत प्रतिदिन रसायन शास्त्र विभाग में सम्बंधित रजिस्टर में हस्ताक्षर करें।

रेमेडियल कक्षा प्रभारी

प्रभारी



## **6. Syllabus of UG and PG**

| <b><u>UG Syllabus</u></b>             | <b><u>PG Syllabus</u></b> |
|---------------------------------------|---------------------------|
| <b>MATHEMATICS</b>                    | <b>ART</b>                |
| <b>PHYSICS</b>                        | <b>SCIENCE</b>            |
| <b>CHEMISTRY</b>                      | <b>SOCIAL SCIENCE</b>     |
| <b>ZOOLOGY</b>                        | <b>COMMERCE</b>           |
| <b>BOTANY</b>                         | <b>L.L.B</b>              |
| <b>HINDI</b>                          |                           |
| <b>SOCIOLOGY</b>                      |                           |
| <b>HISTORY</b>                        |                           |
| <b>ECONOMICS</b>                      |                           |
| <b>POLITICAL SCIENCE</b>              |                           |
| <b>B. COM (PLAIN)</b>                 |                           |
| <b>B. COM. (COMPUTER APPLICATION)</b> |                           |
| <b>FOUNDATION COURSE</b>              |                           |



### 7. Teaching Planner

|                                                                                   |                     |                                                                                                                                            |  |                                                                                     |                |
|-----------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|----------------|
|  |                     | <b>Shaheed Bhagat Singh Govt. PG College</b><br><b>Pipariya (M.P.)</b><br><b>ACADEMIC CURRICULUM</b><br><b>Name of Department: Physics</b> |  |  |                |
| <b>CLASS</b>                                                                      | <b>B.Sc. I Year</b> | <b>Paper: II</b>                                                                                                                           |  | <b>SUBJECT</b>                                                                      | <b>PHYSICS</b> |
| <b>SESSION</b>                                                                    | <b>2019-20</b>      | <b>Name of Paper: Mechanics and General Properties of Matter</b>                                                                           |  | <b>CODE</b>                                                                         |                |
| <b>Teachers Name:</b>                                                             |                     |                                                                                                                                            |  |                                                                                     |                |

**Overview:** To know about ancient Indian scientist and their contribution in science. They will learn vector analysis and differential equations and their uses in Physics. They will have knowledge about different types of motion, properties of matter. They will learn relativity and relativistic motion. Also they will learn about sun, stars and their life cycles etc.

**Plan of Examination:**

| Total<br>Maximum Marks | Theory        |                       | Internal Assessment |                       |
|------------------------|---------------|-----------------------|---------------------|-----------------------|
|                        | Maximum Marks | Minimum Passing Marks | Maximum Marks       | Minimum Passing Marks |
| 50                     | 40            | 13                    | 10                  | 3                     |

**Scheme of Theory Examination:**

Question Paper Contains 3 Sections

- **Section A:** This section will contain 5 objective type Questions, One from Each Unit.
- **Section B:** This section will contain 5 Short Answer type Questions (Each having Internal Choice), One from Each Unit.
- **Section C:** This section will contain 5 Long Answer type Questions (Each having Internal Choice), One from Each Unit.

**Scheme of Internal Assessment:**

- Internal assessment may be taken online/offline using multiple choice question or short/long answer type questions or class presentation, group discussion, home assignment etc.





# Shaheed Bhagat Singh Government P.G. College Pipariya Distt.- Narmadapuram (M.P.)



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## Details of modules

| Unit no./<br>Module no<br>(Ex. U1/M1) | Module                      | No of<br>periods | Learning Objective                                                                                                                                                                      | Teaching<br>Strategy                                                                          | Further reading                                                                                                                                                                               | Type of assessment                                                                                                     |
|---------------------------------------|-----------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Unit 1: Mathematical Physics          |                             |                  |                                                                                                                                                                                         |                                                                                               |                                                                                                                                                                                               |                                                                                                                        |
| U1/M1                                 | Vector                      | 3                | Students will learn:<br>Addition, subtraction and product of two vectors; Polar and axial vectors and their examples from physics;                                                      | Use of white board and ppt presentation for discussion and derivation. Extended Q&A sessions. | 1. Mathur D. S., "Mechanics", S. Chand, 2012.<br><br>2. Ghatak A. K., Goyal I.C. and Chua S.J, "Mathematical Physics", Laxmi Publications Private                                             | Student presentation and group discussion on the various theories. Objective-type questions. Short and long questions. |
| U1/M2                                 | Vector Product              | 4                | Triple and quadruple product (without geometrical applications);                                                                                                                        |                                                                                               |                                                                                                                                                                                               |                                                                                                                        |
| U1/M3                                 | Scalar and vector           | 3                | Repeated integral of a function of more than one variable; Unit tangent vector and unit normal vector                                                                                   |                                                                                               |                                                                                                                                                                                               |                                                                                                                        |
| U1/M4                                 | Vector Integral             | 5                | Gradient, Divergence and Curl; Laplacian operator, Idea of line, surface and volume integrals: Gauss', Stokes and Green's.                                                              |                                                                                               |                                                                                                                                                                                               |                                                                                                                        |
| Unit 2: Mechanics                     |                             |                  |                                                                                                                                                                                         |                                                                                               |                                                                                                                                                                                               |                                                                                                                        |
| U2/M1                                 | Components of velocity      | 3                | Position, velocity and acceleration vectors, Components of velocity and acceleration in different coordinate systems.                                                                   | Use of white board and PPT presentation for discussion and derivation. Extended Q&A sessions. | 3. Spiegel M. R.. "Vector Analysis: Schaum Outline Series", McGraw Hill Education, 2017.<br><br>4. Mathur D. S., "Properties of Matter". Shyamlal Charitable Trust, New Delhi, Limited, 2017. | Student presentation and group discussion on the various theories. Objective-type questions. Short and long questions. |
| U2/M2                                 | Laws of motion              | 3                | Newton's Laws of motion and its explanation with problems, Various types of forces in nature (explanation).Pseudo Forces (e.g. Centrifugal Force). Coriolis force and its applications. |                                                                                               |                                                                                                                                                                                               |                                                                                                                        |
| U2/M3                                 | Kepler's laws               | 2                | Motion under a central force, Derivation of Kepler's laws.                                                                                                                              |                                                                                               |                                                                                                                                                                                               |                                                                                                                        |
| U2/M4                                 | Gravitational law and field | 2                | Gravitational law and field, Potential due to a spherical body. Gauss & Poisson's equation of Gravitational self-energy.                                                                |                                                                                               |                                                                                                                                                                                               |                                                                                                                        |
| U2/M5                                 | Centre of mass              | 3                | System of particles, Centre of mass and reduced mass Rutherford scattering. Elastic and inelastic collisions.                                                                           |                                                                                               |                                                                                                                                                                                               |                                                                                                                        |
| Unit 3: General Properties of Matter  |                             |                  |                                                                                                                                                                                         |                                                                                               |                                                                                                                                                                                               |                                                                                                                        |
| U3/M1                                 | Elasticity                  | 2                | Elastic moduli and their relations, Determination of Y of rectangular thin bar loaded at the centre.                                                                                    | Use of white board and PPT presentation for discussion and                                    | 5. Sears and Zeemansky, "University Physics", Pearson Education.<br>3. Spiegel M.                                                                                                             | Student presentation and group discussion on the various theories. Objective-type questions. Short and long questions. |
| U3/M2                                 | Torsional oscillations      | 3                | Torsional oscillations, Torsional rigidity of a wire, to determine n by torsional oscillations                                                                                          |                                                                                               |                                                                                                                                                                                               |                                                                                                                        |
| U3/M3                                 | Surface Tension             | 3                | Surface Tension, Angle of Contact, Capillary Rise Method; Energy required to raise a liquid in capillary                                                                                |                                                                                               |                                                                                                                                                                                               |                                                                                                                        |



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|                                       |                                            |   |                                                                                                                                                                        |                                                                        |                                                                                               |                                                                    |
|---------------------------------------|--------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
|                                       |                                            |   | tube.                                                                                                                                                                  | derivation.                                                            | R."Vector Analysis:                                                                           |                                                                    |
| U3/M4                                 | Applications of Surface Tension            | 3 | Factors affecting surface tension; Jeager's method for Determination of surface tension; Applications of Surface Tension.                                              | Extended Q&A sessions.                                                 | Schaum Outline Series", McGraw Hill Education, 2017.                                          |                                                                    |
| U3/M5                                 | Viscosity                                  | 2 | Concept of Viscous Forces and Viscosity: Steady and Turbulent Flow, Reynolds's number; Equation of Continuity.                                                         |                                                                        | 4. Mathur D. S., "Properties of Matter". Shyamlal Charitable Trust, New Delhi, Limited, 2017. |                                                                    |
| U3/M6                                 | Bernoulli's Principle                      | 3 | Bernoulli's Principle; Application of Bernoulli's equation (i) Speed of Efflux (ii) Venturimeter(iii) Aspirator Pump(iv) Change of plane of motion of a spinning ball. |                                                                        |                                                                                               |                                                                    |
| <b>Unit 4: Oscillations</b>           |                                            |   |                                                                                                                                                                        |                                                                        |                                                                                               |                                                                    |
| U4/M1                                 | Oscillation                                | 2 | Concept of Simple, Periodic & Harmonic Oscillation with illustrations.                                                                                                 | Use of white board and PPT presentation for discussion and derivation. | 3. Spiegel M. R., "Vector Analysis: Schaum Outline Series", McGraw Hill Education, 2017.      | Student presentation and group discussion on the various theories. |
| U4/M2                                 | Energy of Oscillation                      | 3 | Differential equation of harmonic oscillator, Kinetic and potential energy of Harmonic Oscillator,                                                                     | Extended Q&A sessions.                                                 | 4. Mathur D. S., "Properties of Matter". Shyamlal Charitable Trust, New Delhi, Limited, 2017. | Objective-type questions. Short and long questions.                |
| U4/M3                                 | Rotational motion                          | 3 | Oscillations of two masses connected by a spring; Translational and Rotational motion,                                                                                 |                                                                        |                                                                                               |                                                                    |
| U4/M4                                 | Moment of Inertia                          | 2 | Moment of Inertia and their Product, Principal moments and axes.                                                                                                       |                                                                        |                                                                                               |                                                                    |
| U4/M5                                 | Theorems of Moment of Inertia              | 3 | Theorem of parallel and perpendicular axes, Motion of Rigid Body, Euler's theorem.                                                                                     |                                                                        |                                                                                               |                                                                    |
| <b>Unit 5: Relativistic Mechanics</b> |                                            |   |                                                                                                                                                                        |                                                                        |                                                                                               |                                                                    |
| U5/M1                                 | Michelson-Morley experiment                | 3 | Relativistic Mechanics: Michelson-Morley experiment and its outcome.                                                                                                   | Use of white board and PPT presentation for discussion and derivation. | 3. Spiegel M. R., "Vector Analysis: Schaum Outline Series", McGraw Hill Education, 2017.      | Student presentation and group discussion on the various theories. |
| U5/M2                                 | Postulates of special theory of relativity | 3 | Postulates of Special Theory of Relativity; Lorentz Transformations. Simultaneity and order of events.                                                                 | Extended Q&A sessions                                                  | 4. Mathur D. S., "Properties of Matter". Shyamlal Charitable Trust, New Delhi, Limited,       | Objective-type questions. Short and long questions.                |
| U5/M3                                 | Lorentz contraction                        | 2 | Lorentz contraction: Time dilation: Relativistic transformation of velocity, frequency and wave number: Relativistic addition of velocities.                           |                                                                        |                                                                                               |                                                                    |
| U5/M4                                 | Mass-energy equivalence                    |   | Variation of mass with velocity. Doppler effect Four dimensional momentum vector, Covariance of equations of physics.                                                  |                                                                        |                                                                                               |                                                                    |

Page 3 of 4

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|       |                                 |   |                                                                                                                                                                                                                                                                                                                  |  |       |  |
|-------|---------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------|--|
| U5/M5 | Earlier Developments in Physics | 3 | Earlier Developments in Physics up to 18th Century: Contributions of Aryabhata, Archimedes, Niccolus Copernicus, Galileo Galilei, Huygens, Robert Hooke, Torricelli, Vernier, Pascal, Kepler, Newton, Boyle, Young, Thompson, Coulomb, Amperes, Gauss, Biot-Savarts, Cavendish, Galvani, Franklin and Bernoulli. |  | 2017. |  |
|-------|---------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------|--|

Sign of Teacher

HOD

IQAC Coordinator

Principal

**Course Learning Outcomes:** Upon successful completion of the course, the student:

1. The course would empower the students to develop the idea about the behavior of physical bodies.
2. It will provide the basic concepts related to the motion of all the objects around us in daily life.
3. The students would be able to build foundation to various applied field in science and technology especially in the field of mechanical engineering.
4. The students will acquire the knowledge of basic mathematical methods to solve the various problems in physics.
5. The students will be able to understand the relativistic effect and the relation between energy and mass.

## SBS Govt. P. G. College, Pipariya

### Format for Academic Curriculum, Session 2019-20

**Class: B.Sc. II Year**

**Subject: Zoology**

**Paper & Title: Paper I Vertebrate and Evolution**

#### **Overview:**

Biology is the science of life forms and living processes. The living world of animal's diversity comprises both chordates and non-chordates. Chordates are animals characterized by the presence of a notochord. In higher chordates fish, amphibian (frog), reptiles (lizard and snakes), birds and mammals (humans), notochord is replaced by a vertebral column. In this paper we have to study about the comparative account of various organs of chordates. Evolutions of chordates on earth are supported by different theories. Lamarckism, Darwinism, de-Vries and modern concept of evolution explain micro, macro and mega process of evolution and adaptation. Furthermore, evolutionary processes are supported by fossils record, zoo-geographical distribution and geological time scale.

#### **Plan of Examination:**

| Theory        |                       | Internal Assessment |                       | Total |
|---------------|-----------------------|---------------------|-----------------------|-------|
| Maximum Marks | Minimum Passing marks | Maximum Marks       | Minimum Passing marks |       |
| 40            | 14                    | 10                  | 4                     | 50    |

#### **Scheme of Theory Examination:**

Question Paper Contains 3 Sections

- Section A This section will contain 5 objective type Questions, One from Each Unit.
- Section B This section will contain 5 Short Answer type Questions (Each having Internal Choice), One from Each Unit.
- Section C this section will contains 5 Long Answer type Questions (Each having Internal Choice). One from Each Unit.



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## Scheme of Internal Assessment:

- Internal assessment may be taken online / offline using multiple choice question or short long answer type questions or class presentation, group discussion, home assignment etc

| Unit No.<br>Module No. | Module                                 | No. of Periods | Learning objectives                                                                                                                                            | Teaching Strategy                          | Further Reading                                                                                 | Type of assessment |
|------------------------|----------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------|
| U1M1                   | Origin of Chordates and classification | 03             | 1. Description of specific characters of chordates<br>2. Knowledge of origin and evolution of chordates.<br>3. Difference between chordates and non-chordates. | Lecture and flowchart demonstration        | A text book of chordates by Dr. A. Thangamani<br><br>Comparative anatomy of Vertebrates by Kent | Oral question      |
| U1M2                   | Urochordata                            | 03             | 1. Type study of Herdmania like habit, habitat, external morphology and physiology.<br>2. Affinities of Herdmania with nonchordate and chordates.              | Making poster and classroom teaching       | R. L. Kotpal modern text book of zoology: Vertebrates                                           | MCQ                |
| U1M3                   | Cephalochordate                        | 03             | 1. To explain the systematic position of Amphioxus<br>2. Affinities of Amphioxus with non-chordate and chordates.                                              | Chalk board method and poster presentation | Comparative anatomy of Vertebrates By R.K Saxsena and Sumitra Saxsena                           | Group discussion   |

|      |                                          |    |                                                                    |                    |                                                       |                  |
|------|------------------------------------------|----|--------------------------------------------------------------------|--------------------|-------------------------------------------------------|------------------|
| U1M4 | Comparison between Petromyzon and Myxine | 03 | Describe the general characters and classification of cyclostomes. | classroom teaching | R. L. Kotpal modern text book of zoology: Vertebrates | Group discussion |
|------|------------------------------------------|----|--------------------------------------------------------------------|--------------------|-------------------------------------------------------|------------------|

| Unit No.<br>Module No. | Module                                                                | No. of Periods | Learning objectives                                                                                                                                                      | Teaching Strategy            | Further Reading                                                                                                        | Type of assessment |
|------------------------|-----------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------|--------------------|
| U2M1                   | Comparative account of integuments and its derivatives of vertebrates | 04             | 1. To study the skin derivatives in different vertebrates.<br>2. Description of skin function of fishes, amphibian, reptiles, birds and mammals                          | Audio visual lecture and PPT | A text book of chordates by Dr. A. Thangamani<br>Comparative anatomy of Vertebrates By R.K Saxsena and Sumitra Saxsena | Oral question      |
| U2M2                   | Comparative account of limbs and girdles of vertebrates               | 04             | 1. Able to explain comparative studies of skeleton in fishes, amphibian, reptiles, birds and mammals.<br>2. Discuss about pectoral and pelvic girdles in all vertebrates | Class room teaching and PPT  | Developmental biology and comparative anatomy by Kotpal.                                                               | Group discussion   |
| U2M3                   | Comparative account of digestive system of vertebrates                | 04             | 1. Learn about alimentary canal and associated digestive gland in vertebrates.                                                                                           | Classroom teaching and PPT   | R. L. Kotpal modern text book of zoology: Vertebrates                                                                  | MCQ                |

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|                     |                                                               |                | 2. To understand the physiology of digestion                                                                                                                                                        |                                 |                                                                                                                         |                    |
|---------------------|---------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------|--------------------|
| U2M4                | Comparative account of respiratory system of vertebrates      | 04             | 1. To know the kinds of respiratory organ in vertebrates<br>2. To study the specific feature of accessory respiratory system in vertebrates.<br>3. Able to explain the mechanism of respiration     | Classroom teaching and PPT      | R. L. Kotpal modern text book of zoology: Vertebrates                                                                   | Model Presentation |
| Unit No. Module No. | Module                                                        | No. of Periods | Learning objectives                                                                                                                                                                                 | Teaching Strategy               | Further Reading                                                                                                         | Type of assessment |
| U3M1                | Comparative Account of Aortic arches and heart of Vertebrates | 04             | 1. Able to explain six pair of Aortic Arches<br>2. Modification of Aortic Arches in vertebrates<br>3. Comparative anatomy of two chambered, three chambered and four chambered heart in vertebrates | Classroom teaching and PPT      | A text book of chordates by Dr. A. Thangamani<br>Comparative anatomy of Vertebrates By R. K Saxsena and Sumitra Saxsena | MCQs               |
| U3M2                | Comparative Account of brain of vertebrates                   | 04             | 1. Internal structure and cavities of brain                                                                                                                                                         | Poster presentation and debates | R. L. Kotpal moden text book of zoology: Vertebrates                                                                    | Surprise test      |

|      |                                                           |    |                                                                                                                                                                                          |                                          |                                                       |                  |
|------|-----------------------------------------------------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------|------------------|
|      |                                                           |    | 2. Describe the comparative study of vertebrate's brain                                                                                                                                  |                                          |                                                       |                  |
| U3M3 | Comparative Account of urinogenital system of vertebrates | 04 | 1. Able to explain types of kidneys in vertebrate<br>2. Learning about urino-genital system of fish, amphibian, reptiles, bird and mammals<br>3. Development of gonads and genital ducts | Classroom teaching and PPT               | R. L. Kotpal moden text book of zoology: Vertebrates  | Oral question    |
| U3M4 | Sense organ of mammals: eye and ear                       | 04 | 1. Know about the structure of eye and ear<br>2. Understand the mechanism of vision and hearing                                                                                          | Class room teaching and Group discussion | R. L. Kotpal modern text book of zoology: Vertebrates | Group discussion |
| U3M5 | Placentation in mammals                                   | 03 | 1. Learn about the different types of placenta<br>2. Special kind of tissue connection between mother and foetus.<br>3. Able to explain function of placenta                             | Classroom teaching and PPT               | Raven et. al. Biology Mc Graw Hill publication        | Group discussion |
|      |                                                           |    |                                                                                                                                                                                          |                                          |                                                       |                  |

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| Unit No.<br>Module No. | Module                                                                 | No. of Periods | Learning objectives                                                                                                                                                                                               | Teaching Strategy                | Further Reading                                                                                 | Type of assessment |
|------------------------|------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------|--------------------|
| U4M1                   | Origin of life and their modern concepts                               | 03             | 1. Able to explain biochemical aspect of life<br>2. Origin of prokaryotes and eukaryotes<br>3. Experimental view of origin of life                                                                                | Chalk board and audio video      | Raven et. al. Biology Mc Graw Hill publication                                                  | Oral question      |
| U4M2                   | Modern synthetic theory of evolution and Micro, Macro & Mega evolution | 03             | 1. Learn about the mechanism of evolution through mutation, genetic drift and natural selection<br>2. Explain the Genetic equilibrium of gene pool for genetic balance<br>3. Adaptive radiation of Darwin finches | Chalk board and group discussion | Veer Bala Rastogi Organic evolution Campbell Biology (11th Revised Edition) Pearson publication | Group discussion   |
| U4M3                   | 1 Adaptation and Mimicry<br>2 Lamarkism and Darwinism                  | 06             | 1. Know about the structural and physiological adaptation in vertebrates<br>2. Describe the kinds and evolution of mimicry<br>3. Describe the theories behind the evolution                                       | PPT and group discussion         | Veer Bala Rastogi Organic evolution Campbell Biology (11th Revised Edition) Pearson publication | Surprise test      |

| Unit No.<br>Module No. | Module                                                                            | No. of Periods | Learning objectives                                                                                                                                                                                                                                                                                              | Teaching Strategy              | Further Reading                                                                                                                                                            | Type of assessment |
|------------------------|-----------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| U5M1                   | Palaeontology: fossil and methods of fossilization                                | 04             | 1. Know about the types of fossils.<br>2. Essential conditions required for fossilization.<br>3. Determine the age of fossils in different sedimentary layers.                                                                                                                                                   | Chalk board                    | Raven et. al. Biology Mc Graw Hill publication                                                                                                                             | MCQs               |
| U5M2                   | Study of extinct form Dinosaurs and Archaeopteryx                                 | 02             | 1. Cause of extinction of Dinosaurs<br>2. Importance of connecting link of Archaeopteryx.                                                                                                                                                                                                                        | Storytelling and video lecture | Raven et. al. Biology Mc Graw Hill publication                                                                                                                             | Oral quiz          |
| U5M3                   | 1. Zoogeographical distribution and Geological time scales<br>2. Evolution of Man | 05             | 1. Able to explain Geological time scale with golden period.<br>2. Explain the theory of Wallace for zoogeographical distribution.<br>3. Learn about the important features of primates and Man.<br>4. Similarities and differences between Apes and Humans.<br>5. Significance of human brain during evolution. | Story telling                  | Veer Bala Rastogi Organic evolution Campbell Biology (11th Revised Edition) Pearson publication NCERT Class IX text book<br>Raven et. al. Biology Mc Graw Hill publication | Group discussion   |





**8. Teachers Daily Diary**

मध्य प्रदेश शासन  
उच्च शिक्षा विभाग



**शिक्षक - दैनंदिनी**

सत्र 20.19-20.20.

ग्रहविद्यालय का नाम Shaheed B.G. College Pipariya  
Distt. Narmadapuram (M.P.)

प्राध्यापक/सहायक प्राध्यापक का नाम Dr. Bhanu Chandra

विषय Physics

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1 HEAD  
5 TYPICAL DEPARTMENTS  
A. P. & C. CAMP 11/19/99

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## विद्युत का चर एवं धा

### विभाग

| क्र.सं. | विद्युत चर का नाम | इकाई       | परिभाषा एवं सूत्र                                                                   |
|---------|-------------------|------------|-------------------------------------------------------------------------------------|
| 1       | Permittivity      | $\epsilon$ | Ability to store electric charge in an electric field.                              |
| 2       | Permeability      | $\mu$      | Ability to support the formation of a magnetic field.                               |
| 3       | Conductivity      | $\sigma$   | Ability to conduct electric current.                                                |
| 4       | Resistivity       | $\rho$     | Ability to resist the flow of electric current.                                     |
| 5       | Capacitance       | $C$        | Ability to store electric charge.                                                   |
| 6       | Inductance        | $L$        | Ability to store energy in a magnetic field.                                        |
| 7       | Impedance         | $Z$        | Ability to resist the flow of alternating current.                                  |
| 8       | Admittance        | $Y$        | Ability to conduct alternating current.                                             |
| 9       | Reactance         | $X$        | Ability to resist the flow of alternating current due to inductance or capacitance. |
| 10      | Susceptance       | $B$        | Ability to conduct alternating current due to inductance or capacitance.            |

## प्रत्यापन संबंधी सामान्य जानकारी

दिनांक: \_\_\_\_\_

| क्र.सं. | विद्युत चर का नाम | इकाई       | परिभाषा एवं सूत्र                                                                   | विद्युत चर का मान | विद्युत चर का मान |
|---------|-------------------|------------|-------------------------------------------------------------------------------------|-------------------|-------------------|
| 1       | Permittivity      | $\epsilon$ | Ability to store electric charge in an electric field.                              |                   |                   |
| 2       | Permeability      | $\mu$      | Ability to support the formation of a magnetic field.                               |                   |                   |
| 3       | Conductivity      | $\sigma$   | Ability to conduct electric current.                                                |                   |                   |
| 4       | Resistivity       | $\rho$     | Ability to resist the flow of electric current.                                     |                   |                   |
| 5       | Capacitance       | $C$        | Ability to store electric charge.                                                   |                   |                   |
| 6       | Inductance        | $L$        | Ability to store energy in a magnetic field.                                        |                   |                   |
| 7       | Impedance         | $Z$        | Ability to resist the flow of alternating current.                                  |                   |                   |
| 8       | Admittance        | $Y$        | Ability to conduct alternating current.                                             |                   |                   |
| 9       | Reactance         | $X$        | Ability to resist the flow of alternating current due to inductance or capacitance. |                   |                   |
| 10      | Susceptance       | $B$        | Ability to conduct alternating current due to inductance or capacitance.            |                   |                   |

**HEAD**

**DEPARTMENT**

**INSTITUTE**





### 9. List of Experiments

B.Sc 1<sup>st</sup> year 2019-20

Emotions  
PAGE NO.:  
DATE:

- 20/9/19 - Practical scheme discussion.
- 21/9/19 - Phylum: Porifera - (1) Euplectella (2) spongia (3) Sycon
- 11-10-19 - Phylum: Coelenterata - (1) Physalia (2) Obelia  
(3) Pennatula.  
Platyhelminthes - (1) Planaria (Digestion)  
Nemathelminthes - Ascaris
- 12-10-19 - (1) Physalia (2) Obelia (3) Pennatula,  
(4) Planaria (Digestion) (5) Ascaris
- 18-10-19 - External assignment - C.C.E.
- 19-10-19 - Internal assignment - C.C.E.
- 26-10-19 to 30-10-19 - Diwali vacation.
- 15-11-19 - Phylum: Annelida - (1) Heteronereis (2) Pheretima  
Phylum: Arthropoda - (1) Peripatus (2) Palaemonetes  
(3) Julus (4) Scolopendra (5) Periplaneta (6) Palaemon
- 29-11-19 - Phylum: Mollusca - (1) Pila (2) Unio  
(3) Octopus, (4) Sepia (5) Lantig
- Phylum: Echinodermata - (1) Starfish (Asterias)  
(2) Holothuria
- 13-1-19
- 14-1-19
- 20-12-19 Embryology (Frog) - (1) Frog blastula (2) Frog gastrula  
(3) Tadpole larva.
- 21-12-19 Embryology (chick) - (1)



**शहीद भगतसिंह शासकीय स्नातकोत्तर महाविद्यालय, पिपरिया (म. प्र.)**

**भौतिकशास्त्र विभाग**

**List of Experiments: B.Sc.-III Year**

1. पश्च अभिनिति संधि डायोड द्वारा अर्धचालक पदार्थ का ऊर्जाअंतराल ज्ञात करना ।  
To determine the energy band gap of a semiconductor material using reverse bias P-N junction diode. *Electron*
2. अर्ध तरंग दिष्टकारी तथा पूर्ण तरंग दिष्टकारी का अध्ययन करना ।  
To study the half wave and full wave rectifier.
3. जेनर डायोड के अभिलाक्षणिक गुणों का अध्ययन करना ।  
To study the characteristics of Zener diode.
4. टनल डायोड के अभिलाक्षणिक गुणों का अध्ययन करना ।  
To study the characteristics of a Tunnel diode.
5. JFET के अभिलाक्षणिक गुणों का अध्ययन करना ।  
To study the characteristics of JFET.
6. नियमित पॉवर सप्लाई का अध्ययन करना ।  
To study the Regulated power supply.
7. RC युग्मित प्रवर्धक का अध्ययन करना ।  
To study the RC coupled amplifiers.
8. फोटोसेल द्वारा प्लांक नियतांक का मान ज्ञात करना ।  
To determine the Planck's constant using Photocell.
9. थामसन विधि द्वारा  $e/m$  अनुपात का मान ज्ञात करना ।  
To determine the  $e/m$  ratio using Thomson's method.
10. ट्रांसिस्टर अभिलाक्षणिक गुणों का अध्ययन करना ।  
To study the characteristics of a Transistor.

( विभागाध्यक्ष )





B.Sc. 2<sup>nd</sup> year 2019-2020  
Zoology Practical.

mark (50)

Emotions  
 PAGE NO.:   
 DATE:

1. Dissection of commercially available species of locally available fishes. (Effort may be done to use computer simulation technique)
2. Study of Museum specimens (vertebrates)
3. Study of specimens of evolutionary importance viz. Living fossils, Connecting Link, extinct animals, fossils: Limulus, Latimeria, Dinosaurs, Asiatic tit, Archeopteryx, Peripatus etc.
4. Osteology: Limb bones and girdle bone of frog, Varanus, Pigeon and Rabbit.
5. Detection of protein, carbohydrate and lipid/study of Human salivary enzyme activity in relation to pH
6. Hematological experiment- RBC and WBC counting / Blood grouping in blood sample / Estimation of hemoglobin and sugar in blood sample.
7. Histological study of various endocrine gland - T.S of Thyroid, T.S of pituitary gland, T.S of Adrenal gland, T.S of Testes - T.S of ovary.
8. Histological study of digestive and visceral organs - T.S of Stomach, T.S of Intestine, T.S of Pancreas, T.S of Liver, T.S of Lungs and L.S of kidney.

Distribution of marks:-

|                                         |           |
|-----------------------------------------|-----------|
| 1. Dissection                           | 08        |
| 2. Spot related to evolution            | 05        |
| 3. Spotting (4 spot, 2 Bones, 2 slides) | 16        |
| 4. Biochemistry test / Enzyme activity  | 05        |
| 5. Hematological Experiment             | 06        |
| 6. Viva-Voce.                           | 05        |
| 7. Record                               | 05        |
| Total.                                  | <u>50</u> |





शहीद भगतसिंह शासकीय स्नातकोत्तर महाविद्यालय, पिपरिया (म. प्र.)  
भौतिकशास्त्र विभाग

**List of Experiments: M.Sc.-3<sup>rd</sup> Semester**

**General (Lab-I)**

1. To determine the specific charge  $e/m$  of electron by Thomson's method.
2. To study the wave form by CRO.
3. To study the Hartley Oscillator.
4. To study the Wien's Bridge Oscillator.
5. To verify the Thevenin's Theorem.
6. To verify the Norton's Theorem.

**Special (Lab-II)**

1. To study the Logic gates.
2. To verify the De-Morgan's Theorem.
3. To study the Multiplexer.
4. To study the De-multiplexer.
5. To study the D to A converter.
6. To study the A to D converter.
7. To study the UP and Down counter.

(विभागाध्यक्ष)



B.Sc. III 2019-20  
Zoology Practical

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Marks 50

- 08.1.2020 Study of fresh water Specimen  
09.1.2020 Euglena, Hydra, Unio  
16.01.2020 Study of Marine water Specimen,  
Hippocampus, Scoliodon & Sepia  
22.01.2020 Study of Terrestrial fauna  
Naja Rat Pigeon  
05.02.2020 Major crops Labo, catla, cirrhinus  
12.02.2020 Study of Turbidity & PH of  
Water  
19.02.2020 Study of pond ecosystem &  
Maintenance of aquarium.  
26.02.2020 Study of centrifuge, PH meter  
and Spectrophotometer  
02.03.2020 wild life endangered species  
Rhinos, Great Indian Bustard  
Tiger, Lion & Elephant.  
02.03.2020 Difference between National park &  
Sanctuaries of MP  
02.03.2020 Life cycle of silk worm  
Life cycle of Honey bee  
02.03.2020 Problems related to genetics  
color blindness  
Hemophilia