



**SANDIPANI**  
**ACADEMY**

Gram - Achhoti, Post- Murmunda,  
Via- Dhamdha, Dist.- Durg (C.G.) 490036  
Phone : +91 78212 99288  
Mobile : +91 9300008230

## Notice

**Date – 03-11-2021**

It is intimated to all the teaching staff that catalogues from different publishers are available in the collage library. Kindly visit the library and give the list of text/reference books with their author name to Mr. Sudhir Tiwari as per the needs of syllabus by 6 November, 2021.

*for*  
*[Signature]*  
**Principal**

**Sandipani Academy Achhoti**

*[Signature]*

**Principal**

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B.Sc B.Ed

03/11/2021

01. Botany I<sup>st</sup> Year — N. B. Singh —→ 10 piece
02. Botany II<sup>nd</sup> Year — Narendra Bahadur Singh — 10 piece
03. Botany III<sup>rd</sup> Year — Narendra Bahadur Singh — 10 piece
04. Quantitative aptitude — R. S. Agrewal — 03 piece
05. उच्च गणित — रम्य के पाठक — 03 piece
06. Navboth Unified Chemistry — 03 piece (B.Sc.-I<sup>st</sup> year)
07. Biophysical Chemistry — Avinash Upadhyay — 05 piece
08. Physics I<sup>st</sup> Year — R. P. Goyal (Unified) — 03 piece
09. Physics II<sup>nd</sup> Year — R. P. Goyal (Unified) — 03 piece
10. Physics III<sup>rd</sup> Year — R. P. Goyal (Unified) — 03 piece
11. Chemistry III<sup>rd</sup> Year — P. N. Tandon (unified) — 06 piece

Wojan

Wojan  
03/04/2021

M. N. Maheshwari

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for  
S. P. S. S. S.  
Principal  
(Education)

Sandipani Academy  
Achhoti, Distt. Durg (C.G.)

BEd

05/11/21

- 1) Teaching of Values - N. Papa Rao - (10 Books)
- 2) Educational Technology - N. Papa Rao (10 Books)
- 3) Knowledge & Curriculum - N. Papa Rao (10 Books)
- 4) Philosophical perspective of Education -  
Rosamma Jacob  
(progress publication)
- 5) National policy of India Education & Human  
Resources - Sikkha Shalini
- 6) Sociological perspective of education  
- Rita Chouhan
- 7) Psychology - P. D. Pathak

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5/11/21

for

Spixiri  
Principal  
(Education)

Sandipani Academy  
Achhoti, Distt. Durg (C.G.)



## REGISTER

Date	Accession No.	AUTHOR	TITLE	Class No.
	2160	Laxmikant M	Indian polity	
	2161			
	2162	Upadhyay Arunesh	Biophysical chemistry	
	2163			
	2164			
	2165			
	2166	Khanna K.L	Medieval India	
	2167	Sharma J.N	Functions of objective	
	2168	Charan Gitan	Indian Agriculture	
	2169	पिंड गणेश गणेश	गणेश जी की विज्ञान	530
	2170			
	2171			
	2172			
	2173			
	2174			
	2175			
	2176			
	2177	रमणी सिह	गणेश जी की विज्ञान	530
	2178			
	2179			
	2180			
	2181			
	2182			
	2183			
	2184			
	2185	पिंड गणेश गणेश	गणेश जी की विज्ञान	530
	2186			
	2187			
	2188			
	2189			
	2190			
	2191			
	2192			

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# REGISTER

Publishers	Place & Date of Publication	No. of Volumes	Pages	Price	Remarks
Mc Graw Hill	Chennai		400	940.00	Ref
Himalaya Publishing Nagpur			616	596.00	
Jakshmi Narain Prakashan	Meerut		260	360.00	
penquin Book	New Delhi		624	450.00	
नवश्री प्रकाशन	राजपुर		792	450.00	
			856	600.00	
			710	490.00	
			1000	650.00	

## REGISTER

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# ACCESSION

# REGISTER

Stationery Store, Rajpur 2277004

DATE	Accession No.	AUTHOR	TITLE	Class No.	Publishers	Place & Date of Publication	No. of Volumes	Pages	Price	Remarks
	3766	Sikka Shalini	National Portrayal of Education and Human Development			New Delhi		326	1395.00	
	3769	Sikka Pawan	Intellectual Property Rights					211	1395.00	
	3770	Anandha R.V.	Educ. Policy and Development					211	1395.00	
	3771	Sikka Shalini	Social Justice Health and Educational Rights of Women					211	1395.00	
	3772	Sikka Pawan	Women Empowerment					211	1395.00	
	3773	Sikka Shalini	Women Empowerment					211	1395.00	
	3774	Shalle Veena	National Edu. Policy 2020					211	1395.00	
	3775							211	1395.00	
	3776							211	1395.00	
	3777							211	1395.00	
	3778							211	1395.00	
	3779	Tharax Shachi	Ministry of Education Year Book					211	1395.00	
	3780	Tharax Shachi	Ministry of Education Year Book					211	1395.00	

Principal

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# ACCESSION

Accession No.	AUTHOR	TITLE	Class No.
2193	पि. ए. गोखले	गणित की व्याख्या	
2194	गणेशदास एस	वैकल्पिक गणित	
2195	—	—	
2196	गणेशदास एस	गणित की व्याख्या	
2197	—	—	
2198	गणेश के गोखले	गणित की व्याख्या	
2199	गणेश के गोखले	गणित की व्याख्या	
2200	गणेश के गोखले	गणित की व्याख्या	
2201	गणेश के गोखले	गणित की व्याख्या	
2202	म. लक्ष्मीकांत	भारतीय गणित	

# REGISTER

Publisher	Place & Date of Publication	No. of Volumes	Pages	Price	Remarks
गणेशदास एस	पुणे १९१२	—	१००	६५०/-	
S. Chand Pub.	New Delhi	—	१२०	३५०/-	Red
—	—	—	—	—	—
—	—	—	—	—	—
गणेशदास एस	पुणे	—	११०	७५०/-	Red
—	—	—	—	—	—
गणेशदास एस	पुणे	—	६००	३५०/-	—
—	—	—	—	—	—
Nobodh. Prakashan	Kolpur	—	२१६	६००/-	—
—	—	—	—	—	—
Mc Graw Hill	Chennai	—	४००	२५०/-	Red

8/11/21



**SANDIPANI**  
**ACADEMY**

Gram - Achhoti, Post- Murmunda,  
Via- Dhamdha, Dist.- Durg (C.G.) 490036  
Phone : +91 78212 99288  
Mobile : +91 9300008230

### Report

The faculty provided the list of books required as per need of the curriculum to ensure maximum learning outcomes. The list was, further, passed to Mr. Sudhir Tiwari, Librarian; for the purchase. Books were purchased as per the needs of the faculty, new syllabus and the availability of books in the market.

*for*  
*S. P. Singh*  
**Principal**

**Sandipani Academy Achhoti**

*[Signature]*  
**Principal**  
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S. Sandipani  
Achhoti  
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**SANDIPANI ACADEMY**  
ACHHOTI (MURMUNDA), DURG (C.G.)

## सूचना

सांदीपनी एकेडमी संस्था के शिक्षा विभाग के समस्त शिक्षकगण को सूचित किया जाता है कि दिनांक 08.07.2021 और 09.07.2021 का संस्थान में Faculty Development Program रखा गया है, जिसके तहत शिक्षा विभाग के सभी शिक्षकगण को उपस्थित रहना अनिवार्य हैं। अतः कोई भी शिक्षकगण उक्त दिनांक में अवकाश नहीं लेंगे।

05.07.2021

प्राचार्य

(डॉ. नाज़िया अहमद)

शिक्षा विभाग

सांदीपनी एकेडमी

अछोटी, रिला-दुर्ग (छ.ग.)

Principal  
(Education)

Sandipani  
Achhoti, Dist.





# SANDIPANI ACADEMY

KUMHARI - AHIWARA ROAD, ACHHOTI (MURMUNDA), DISTT. DURG (C.G.)

## FACULTY DEVELOPMENT PROGRAM ON INNOVATION IN E-LEARNING AND LEARNING MANAGEMENT SYSTEM

Organised by Department of Education

**DATE: 8th - 9th JULY 2021**

Time: 12 Noon

### About College

Sandipani Academy (Affiliated to Hemchand Yadav Vishwavidyalaya) is situated at Achhoti, Durg with the sole aim to provide opportunity to students for their holistic development of their personality, through academic and non-academic activities. The foresighted vision of the management is to emphasis the practical application of theoretical knowledge. Sandipani Academy intends to bring qualitative improvement and aims to provide educational excellence to students, providing them guidance and care for their individual development. Sandipani Academy always tries to nurture the moral and ethical values in students so that they will become responsible citizen of the country.



### About Faculty Development Program

Faculty Development Program on Innovation in E-learning and Learning Management System is organised to enhance the competency of the staff according to the need of the hours. In this fast growing digital world teachers should be updated technologically and they should aware about the available resources for teaching and learning for getting optimal benefit of the technical and digital resources available.



**DATE- 08/07/2021 (DAY-1)**

**Chief Guest**



**Prof. (Dr.) Rajeev Choudhary**  
Dean, Students' Welfare (DSW)  
Head, School of Studies in Law  
Pt. Ravishankar Shukla University  
Raipur, Chhattisgarh

**Keynote Speaker**



**Mr. Manish Singh**  
Solution Architect  
Digital API Craft Bengaluru, Tamilnadu  
**Topic:**  
Tools for Digital Learning

**DATE- 09/07/2021 (DAY-2)**

**Chief Guest**



**Dr. Prashant Shrivastava**  
Dean, Students' Welfare (DSW)  
Hemchand Yadav Vishwavidyalaya  
Durg, Chhattisgarh

**Keynote Speaker**



**Dr. Riya Tiwari**  
Principal, Gracious College of Education  
Belbhata, Abhanpur

**Topic:**  
Learning Management System



## Chief Patron

Mr. Mahendra Choubey  
(Director)

## Patron

Mr. Vineet Choubey  
(Administrator)

## Convener

Dr. Nazia Ahmed  
(Principal)

## Convener

Dr. Abha Dubey  
(Advisor)

## Organising Secretary

Dr. Sandhya Pujari  
(HOD)

## Organising Team

Ms. Meena Pandey  
Ms. Saroj Shukla  
Ms. Mamta Dhruw  
Ms. Tripti Madhariya

## Technical Team

Mr. Lokesh Dewangan  
Mr. Ramakant Prasad

### Note:

1. No Registration Fees
2. Registered Participants will get E- Certificate after FDP through E- Mail
3. Feedback link will be provided in You-Tube Link after FDP

### Registration Link:

<https://forms.gle/jp7tkdSSn7T7rb158>

### YouTube Link:

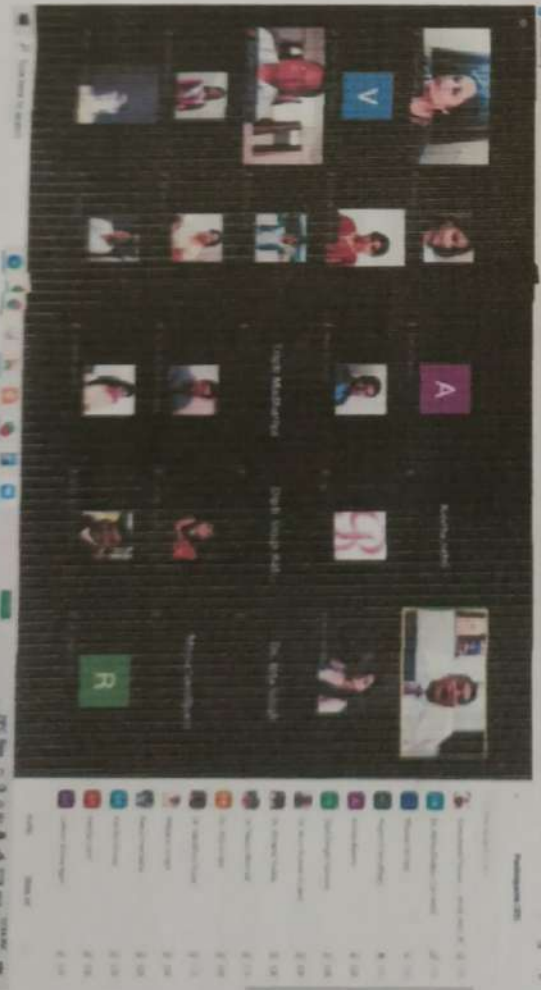
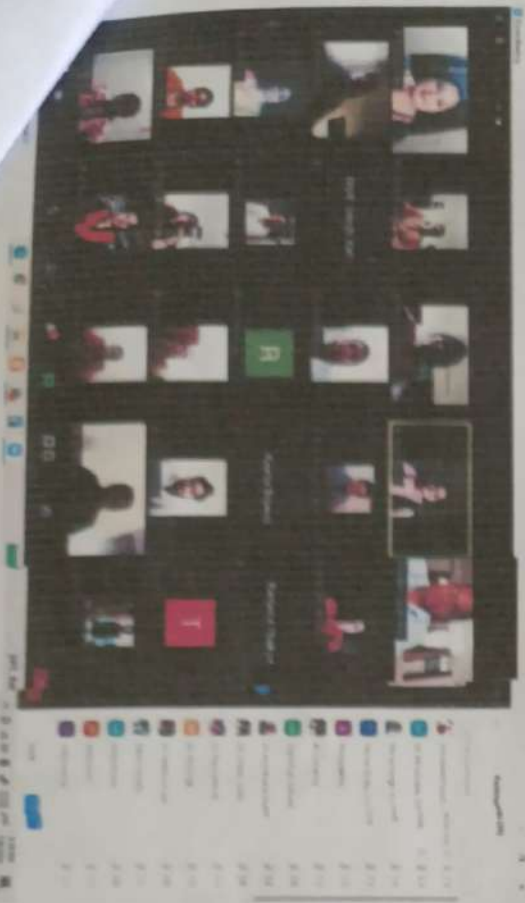
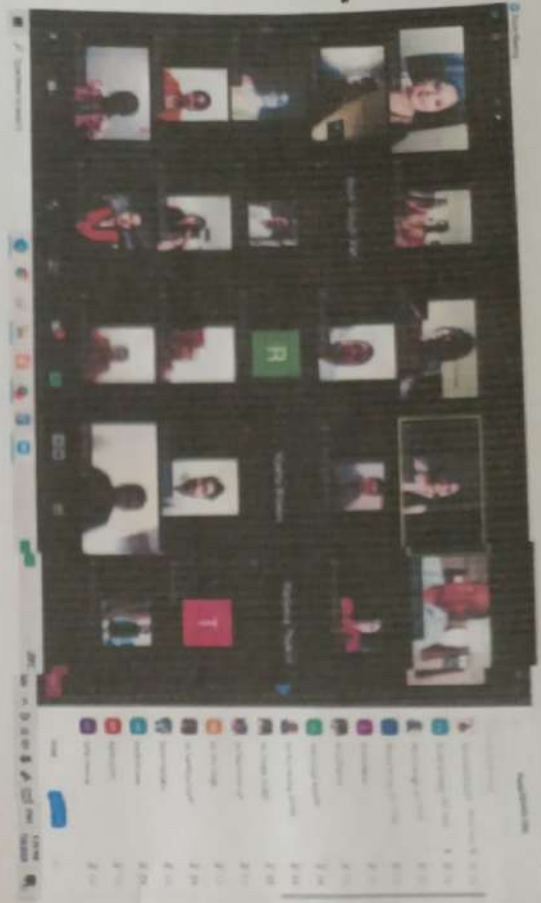
YouTube Link: (Day-1) 8th July 2021

<https://youtu.be/a-m38fGmWgl>

YouTube Link: (Day-2) 9th July 2021

<https://youtu.be/0DUtDqLawE4>





Principal  
(Ed...)

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# SANDIPANI ACADEMY

## ACHHOTI(MURMUNDA),DURG(C.G.)

S.A./Academic/2021/...126(3)

Date ..09.07.2021

To,

Mr. Manish Singh

Solution Architect

Digital API Craft Bengaluru, Tamilnadu

**Subject: Thanks letter**

Dear Sir,

This is to extend our cordial thanks to you for being with us as our **Guest Speaker for Faculty Development Program on Topic- "Tools for Digital Learning"** held on 8<sup>th</sup> July 2021 organised by our Institution. Your kind presence and thought shared in the programme has enhanced our knowledge in Learning process. It is a great pleasure to host you at our organization as the **Keynote Speaker**.

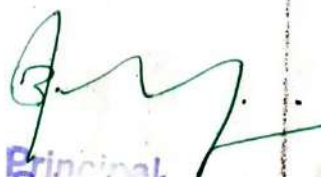
With Warm Regards.



HOD

(Dr. Sandhya Pujari)

Sandipani Academy, Achhoti, Durg



Principal  
Principal  
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# SANDIPANI ACADEMY

## ACHHOTI(MURMUNDA),DURG(C.G.)

S.A./Academic/2021/..126 R)

Date ..09/07/2021

To,

Dr. Riya Tiwari

Principal

Gracious College of Education

Belhata, Abhanpur

**Subject: Thanks letter**

Dear Ma'am,

This is to extend our cordial thanks to you for being with us as our **Guest Speaker for Faculty Development Program on Topic- "Learning Management System"** held on 9<sup>th</sup> July 2021 organised by our Institution. Your kind presence and thought shared in the programme has enhanced our knowledge in Learning process. It is a great pleasure to host you at our organization as the **Keynote Speaker**.


With Warm Regards.



HOD

(Dr. Sandhya Pujari)

Sandipani Academy, Achhoti, Durg



Principal  
(Principal)  
S.A. (E) Sandipani Academy  
Achhoti, Durg (C.G.)



# **SANDIPANI ACADEMY**

## **ACHHOTI(MURMUNDA),DURG(C.G.)**

S.A./Academic/2021/136..(4)

Date 09/07/21

To,

Dr. Prashant Shrivastava  
Dean, Student's Welfare  
Hemchand Yadav University,  
Durg (CG)

**Subject: Thanks letter**

Dear Sir,

This is to extend our cordial thanks to you for being with us as our **Chief Guest** for Faculty Development Program on Topic- **"Innovation in E-Learning and Learning Management System"** held on 9<sup>th</sup> July 2021 organised by our Institution. Your kind presence and thought shared in the programme has enhanced our knowledge in Learning process. It is a great pleasure to host you at our organization as the **Chief Guest**.

With Warm Regards.



**HOD**

(Dr. Sandhya Pujari)

Sandipani Academy, Achhoti, Durg.



**Principal**  
(Ed)

Sandipani  
Achhoti, Durg (C.G.)

# SANDIPANI ACADEMY

ACHHOTI(MURMUNDA),DURG(C.G.)

S.A./Academic/2021/136(1)

Date 08/07/2021

To,

Prof. (Dr.) Rajeev Choudhary

Dean, Student's Welfare

Head School of Studies in Law

Pt. Ravishankar Shukla University, Raipur (CG)

**Subject: Thanks letter**

Dear Sir,

This is to extend our cordial thanks to you for being with us as our **Chief Guest** for Faculty Development Program on Topic- **"Innovation in E-Learning and Learning Management System"** held on 8<sup>th</sup> July 2021 organised by our Institution. Your kind presence and thought shared in the programme has enhanced our knowledge in Learning process. It is a great pleasure to host you at our organization as the **Chief Guest**.

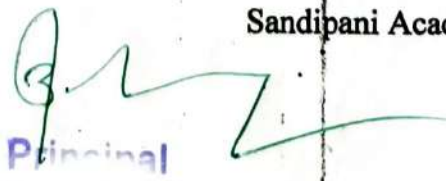
With Warm Regards.



HOD

(Dr. Sandhya Pujari)

Sandipani Academy, Achhoti, Durg



Principal

Sandipani Academy  
Achhoti, Durg (C.G.)





## सांदीपनी एकेडमी अछोटी मुरमुंदा दुर्ग (छ.ग.)

आज दिनांक 08/07/2021 अछोटी दुर्ग सांदीपनी एकेडमी के शिक्षा विभाग के द्वारा Faculty Development Program FDP के तहत Innovation in E-learning and learning management system पर दो दिवसीय 08/07/2021-09/07/2021 ऑनलाइन zoom meeting तथा Youtube channel live broad cast के माध्यम से इस FDP का आयोजन किया गया। प्रथम दिवस के कार्यक्रम में मुख्य अतिथि के रूप में Prof. Dr. Rajeev Choudhary Dean, Student's welfare HEAD; School of Studies in Law Pt. RSU Raipur C.G. एवं द्वितीय दिवस के मुख्य अतिथि के रूप में Dr. Prashant Shrivastava Dean, Students' Welfare (DSW) Hemchand Yadav Vishwavidyalaya Durg C.G.

Dr. Rajeev Choudhary ने वर्तमान कोविड महामारी के दौर में शिक्षा के लिए उपयोगी संशोधित हो रहे ऑनलाइन शिक्षण पद्धति के विषय में सकारात्मक एवं नकारात्मक दोनों पहलुओं पर अपने विचार व्यक्त किये तथा Dr. Prashant Shrivastava जी ने शिक्षा संबंधित डिजिटल सुविधाओं के बारे में विस्तृत जानकारी दी, साथ शिक्षकों के द्वारा खुद को इस नवीन शिक्षण पद्धति के अनुरूप ढालते हुए स्वयं की बौद्धिक गुणवत्ता और टेक्नोलॉजी का उत्कृष्ट प्रयोग करते हुए विद्यार्थियों को एक बेहतर शिक्षा प्रदान कर सकने संबंधित गंभीर विषय पर चर्चा की गई।

इसी संदर्भ में प्रथम दिवस के Keynote Speaker के रूप में Mr. Manish Singh (Solution Architect, Digital API Craft, Bengaluru) इनका topic "Tools for Digital Learning" रहा, द्वितीय दिवस की Keynote Speaker के रूप में Dr. Riya Tiwari Principal, Gracious College of Education, Belbhatta, Abhanpur ने Learning Management System LMS पर प्राध्यापकगण को ऑनलाइन शिक्षा के विषय में जानकारी दी। उन्होंने वर्तमान में उपयोग किये जा रहे विभिन्न ऑनलाइन प्लेटफॉर्म जैसे की Swyam, Udemy, Coursera, Kahoot Moodle, Gnomia आदि के उपयोग के माध्यम से शिक्षण प्रणाली को प्रभावशाली बनाने एवं विद्यार्थियों के ऑनलाइन आकलन के विभिन्न तरीकों के बारे में जानकारी दी।

इस कार्यक्रम को सफल बनाने में संस्था के निर्देशक श्री महेंद्र चौबे (Chief Patron), एडमिनिस्ट्रेटर श्री विनीत चौबे (Patron), प्राचार्या डॉ. नाजिया अहमद, (Convener), डॉ. आभा दुबे, सलाहकार एवं सहायक प्राध्यापक (Convener), विभागाध्यक्ष डॉ. संध्या पुजारी (Organising Secretary), श्रीमती मीना पांडेय (Organising Team / IQAC समन्वयक सहायक प्राध्यापक), श्रीमती सरोज शुक्ला, (सहायक प्राध्यापक),

श्री लोकेश देवांगन (सहायक प्राध्यापक), श्री रामकांत प्रसाद (सूचना प्रौद्योगिकी) एवं संस्था के समस्त स्टाफ की प्रतिभागिता एवं योगदान सराहनीय रहा।

  
Principal  
(Education)

Sandipani Academy  
Achhoti, Dist. Durg (C.G.)

Registered Office : LIG - II / 148, Sector - 2, Pt. Dindayal Upadhyay Nagar, Raipur (C.G.) 492010

Principal  
Education

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# **SANDIPANI ACADEMY**

**ACHHOTI(MURMUNDA),DURG(C.G.)**

## **NOTICE**

**DATE: 25/02/2022**

**All teaching staff and non-teaching staff of Sandipani Academy, Achhoti is informed that tomorrow Faculty Development Program will be held.**

**There are some mandatory instructions:**

- 1. All staff will come in a simple clothes (Female will come in salwar kurt only and male will come in a formal wear).**
- 2. Follow all the covid norms (Carry sanitizer, mask and water bottle).**



**DR. SANDHYA PUJARI**  
**HOD**



**Principal**  
(F...)  
Sandipani Academy  
Achhoti, Durg, C.G.



The programme of conduction Outbound Faculty Development Programme at "Sri Aurobindo Yoga and Knowledge Foundation", Gram Funda .

Topic : Managing Inner Harmony for better Teaching Learning

Date : 26-2-2022

### Schedule

10 AM : Arrival Welcome, Introduction to Integral Yoga

10.30 AM : Breakfast

11.00 AM : Understanding Mind Body

12.00 Noon : Workshop to Creating Harmony

1.00 PM : Prasad (Lunch Break)

2.00 PM : Group Activity

3.00 PM : Activity

3.30 PM : Tea Snacks

Trainers : Dr. Kiran Bala, Mrs. Meenakshi Patel, Ms. Shubhangi

Note : Kindly visit the ashram with ease Cloths, Masks, Sanitizer, Water Bottle

Kindly Follow the Covid protocol's

Regards

Dr.S.M.Ghosh

Director

Amount - 350 Per Person

Expected amount -

$350 \times 25$

6 person absent

$= 8750/-$

$350 \times 20 = 7000/-$

*S. Pujari*

HOD

*V. Chaubey*

Administrator

*M. Mahendra Chaubey*

Mr. Mahendra Chaubey

*M. Mahendra*  
Coordinator

Ms. Manita Dhrue

Dr. Sandhya Pujari

Mr. Vineet Chaubey

Sri Aurobindo Yoga and Knowledge Foundation, Gram Funda, Chhattisgarh, 9826268541

Principal

(Educator)

Sandhya Pujari

Assistant Director



FDP. on 26/02/2022

## Teaching Staff

1. Dr. Abha Dubey
2. Dr. Sandhya Pujari
3. Mrs. Saroj Shukla
4. Mrs. Mona Verma
5. Xms. Renu Sahy
6. Mr. Vinod Sahy
7. Mr. Virek Gautam
8. Mrs. Preeti Dewangan
9. Ms. Kavita Patel
10. Ms. Manla Dhruv
11. Ms. Minakshi Panchal
12. Ms. Vidya Chandrakar
13. Ms. Neha Kumbhar
14. Mr. Virek Dewangan
15. Mr. Lokesh Dewangan
16. Mr. Vedprakash Tripathi
17. Ms. Ankita Baryua

## Non-Teaching Staff

1. Mr. Awadh Verma
2. Xmr. Neeraj Kumar
3. Xmr. Digesh Sahy
4. Xmr. Sudhish Tewari
5. Ms. Sonam Shukla
6. Mrs. Tarinee Sahy
7. Xmr. Kishor Sahy
8. Mrs. Monisha Sahy
9. Shyam Shunday

Coordinator  
Ms. Manla Dhruv

HOD  
Dr. Sandhya Pujari

Administrative  
Mr. Virek Chaudhary

Director  
Mr. Mahendray Chaudhary

Principal  
(Signature)

Sar... my  
Achha... burg (C G)

14/04/22

\* FDP 0014. 02/22 \*  
 02/22  
 Saturday

Schedule :-

<u>Time</u>	<u>Arrival Place</u>
8:00 AM	Mekahara
8:10 AM	Pachpedi Naka
8:20 AM	Tatebandh
8:30 AM	Kumhari
8:45 AM	Achhoti
9:10 AM	Charoda
9:50 AM	Funda

## Staff List

Name of staff	Signature
① Dr. Abha Dubey	
② Dr. Sandhya Pujari	<u>S. Pujari</u>
③ Saroj Shukla	<u>S. Shukla</u>
④ Mona Verma	<u>M. Verma</u>
⑤ Renu Sahy	<u>Renu Sahy</u>
⑥ Mr. Vinod Sahy	<u>V. Sahy</u>
⑦ Mr. Virek Gaudan	<u>V. Gaudan</u>
⑧ Mrs. Preeti Dewangan	<u>P. Dewangan</u>
⑨ Ms. Kavita	<u>K. Dewangan</u>
⑩ Ms. Mantu	<u>M. Dewangan</u>
⑪ Ms. Minakshi	<u>M. Dewangan</u>
⑫ Ms. Vidya	<u>V. Dewangan</u>
⑬ Ms. Neha	<u>N. Dewangan</u>
⑭ Mr. Virek Dewangan	<u>V. Dewangan</u>
⑮ Mr. Lokesh Dewangan	<u>L. Dewangan</u>
⑯ Mr. Vedprakash	<u>V. Dewangan</u>
⑰ Ms. Ankita	<u>A. Dewangan</u>
⑱ Mr. Awadh	<u>A. Dewangan</u>
⑲ Mr. Neeraj	<u>N. Dewangan</u>
⑳ Mr. Digesh	<u>D. Dewangan</u>
㉑ Mr. Sudhir	<u>S. Dewangan</u>
㉒ Ms. Sonam	<u>S. Dewangan</u>
㉓ Mrs. Tarinee	<u>T. Dewangan</u>
㉔ Mr. Kishor	<u>K. Dewangan</u>
㉕ Mrs. Monisha	<u>M. Dewangan</u>

Bus driver

Mr. Shyam Shunday

Contact No. - 9302229476



The programme of conduction Outbound Faculty Development Programme at "Sri Aurobindo Yoga and Knowledge Foundation", Gram Funda .

Topic : Managing Inner Harmony for better Teaching Learning

Date : 26-2-2022

#### Schedule

10 AM : Arrival Welcome, Introduction to integral Yoga

10.30 AM : Breakfast

11.00 AM : Understanding Mind Body

12.00 Noon : Workshop to Creating Harmony

1.00 PM : Prasad (Lunch Break)

2.00 PM : Group Activity

3.00 PM : Activity

3.30 PM : Tea Snacks

Trainers : Dr. Kiran Bala, Mrs. Meenakshi Patel, Ms. Shubhangi

Note : Kindly visit the ashram with ease Cloths, Masks, Sanitizer, Water Bottle

Kindly Follow the Covid protocol's

Regards

Dr.S.M.Ghosh

Director

Sri Aurobindo Yoga and Knowledge Foundation, Gram Funda, Chhattisgarh, 9826288541

[www.theprogress.in](http://www.theprogress.in)

Principal  
(Education)

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Sandipani Ashram  
Achnoti, Distt. Durg (C.G.)

Staff Attendance for FDP  
(Funda.)

22-26 02 2022

Teaching Staff	mail id
① Dr. Asha Dubey	mrs.skhaduley@gmail.com
② Mrs. Santosh Shukley	sarav1707shukla@gmail.com
③ Mr. Vinod Sahni	Sahuvv8@gmail.com
④ Mrs. Mona Verma	monv@124420@gmail.com
⑤ Mrs. Joseph Dwarangan	mailejosephdwarangan@gmail.com
⑥ Ms. Kavita Patel	Patel kavita 570@gmail.com
⑦ Ms. Manita Sharma	manurandhanur182@gmail.com
⑧ Ms. Minakshi Parashar	minakshiparashar1702@gmail.com
⑨ Ms. Neha Kumbhar	nehakumbhar@gmail.com
⑩ Mr. Vedprakash	vedtripathi0001@gmail.com
⑪ Ms. Anvita Bawus	nukita bawus 16@gmail.com
⑫ Mr. Lokeesh	lkdwangan1304@gmail.com
⑬ Mr. Frank Kir. Gaidam	Vinodgaidam3008@gmail.com
⑭ Mr. Virek Dwarangan	virekdwarangan333@gmail.com
⑮ Ms. Vidya Chandrasekar	esb vidyadevi835@gmail.com

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## Non-Teaching Staff

(16)	Mrs. Manida	Prati Manisha School 1977
(17)	Mrs. Tarinee	Tajne Sakya Bldg. Con. gaud ymca Con
(18)	Mrs. Awasli	Amul Network 2021. Calm
(19)	Ms. Sonam	Sonam Shukla 905@gmail.com
(20)	Mr. Shyam Sundry	

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Principal





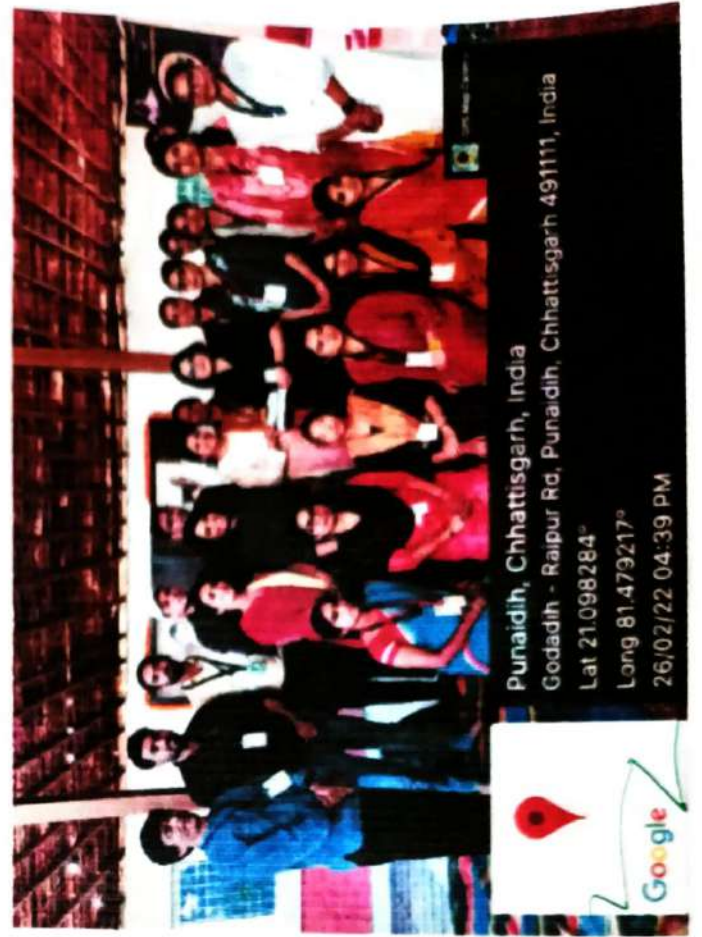
Principal

(Signature)

Principal

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Principal





# **SANDIPANI ACADEMY**

**ACHHOTI(MURMUNDA),DURG(C.G.)**

## **Notice**

Date:-02/02/2022

All Students of Education Department of Sandipani Academy, Achhoti are informed that Life skill program on **E- content learning** will going to be held on 03/02/2022 at 12:00pm onwards. All students are mandatory to attend this program at google meet on time.

  
HOD

Dr. Sandhya Pujari  
Sandipani Academy, Achhoti

  
Principal

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on)  
Academy.  
Durg (C G)



# SANDIPANI ACADEMY

## ACHHOTI(MURMUNDA),DURG(C.G.)

### Agenda of the Program

Chief Guest - Ms. Sonam Shukla

Name of the Program - Life Skill

Date - 03/02/2022

Venue - Google meet


Topic - E-Content Learning

S.No	Mood & Events	Time Horizon	Responsibility center
1.	Gathering of Students Arrival of the Guest	12:30 pm	
2.	Arrival of the Guest	12:35 pm	
3.			
4.	Saraswati Poojan		
5.	Program Introduction	12:35 to 12:40	Mr. Vinod Sahu
6.	Welcome Speech	12:40 to 12:45	Ms. Ankita Barua
7.	Welcome of the Guest with Bouquet (Senior to Junior)		
8.	Introduction of Guest	12:45 to 12:50	Mr. Vinod Sahu
9.	Welcome Programme		
10	Speech by the Guest (Junior to Senior)	12:50 to 01:00	Ms. Sonam Shukla
11	Experience Sharing by the participants	01:00 to 01:05	
12	Vote of Thanks	01:05 to 01:10	Ms. Kavita Patel
13	Full Time Anchoring		

  
Co-ordinator

  
Organising Secretary  
Dr. Sandhya Pujari

  
Convener  
Dr. Abha Dubey

  
Principal  
Educational  
Sandipani Academy  
Achhoti, Distt. Durg

# SANDIPANI ACADEMY

ACHHOTI(MURMUNDA),DURG(C.G.)


## CHECKLIST OF THE PROGRAMME


Name of The Programme - Life Skill on E-Content Learning Date - 03/02/2022

S.No.	Area of Work	Responsibilities
1.	Name and Date of Event/Programme	03/02/2022
2.	Invitation Letter of the Programme	Mr Vinod Sahu
3.	Standby Preparation	
4.	Name Plate Preparation	
5.	Flex Preparation	
6.	PPT Presentation	
7.	Venue Preparation	
8.	Stage Preparation	Ms. Vidya Chandrakar
9.	Seating Arrangement	
10.	Escorting of Guest	
11.	Tele calling to Guests, Authorities	
12.	Message to Guest, Authorities, Media	
13.	Thanks Letter to Guest	
14.	Press Release Preparation and Dispatch/ Mail to Different Press	Ms. Mamta Dhruw
15.	Discipline	
16.	Gathering Students to the Venue	Ms. Vidya Chandrakar
17.	Notice Preparation and Display	Mr. Vinod Sahu
18.	Bouquet Arrangement and Presentation	
19.	Refreshment Procurement and Distribution	
20.	Agenda Preparation	Mr. Vinod Sahu
21.	Photography and proper upkeep of the photos (Geotag photos)	Ms. Vidya Chandrakar
22.	Visitors Diary	
23.	Vote of Thanks	Ms. Kamita Patel
24.	Anchoring	Mr. Vinod Sahu
25.	Website Upload	Mrs. Preeti Priti Deewan

  
Co-ordinator

  
Organising Secretary  
Dr. Sandhya Pujari

  
Convener  
Dr. Abha Dubey

  
Principal  
(Ed.)  
Sandip  
Achhoti



Sandipani Academy Achhoti, Durg is inviting you to a scheduled Zoom meeting.

Topic: Zoom Tutorial


Time: Feb 3, 2022 12:00 PM Mumbai, Kolkata, New Delhi

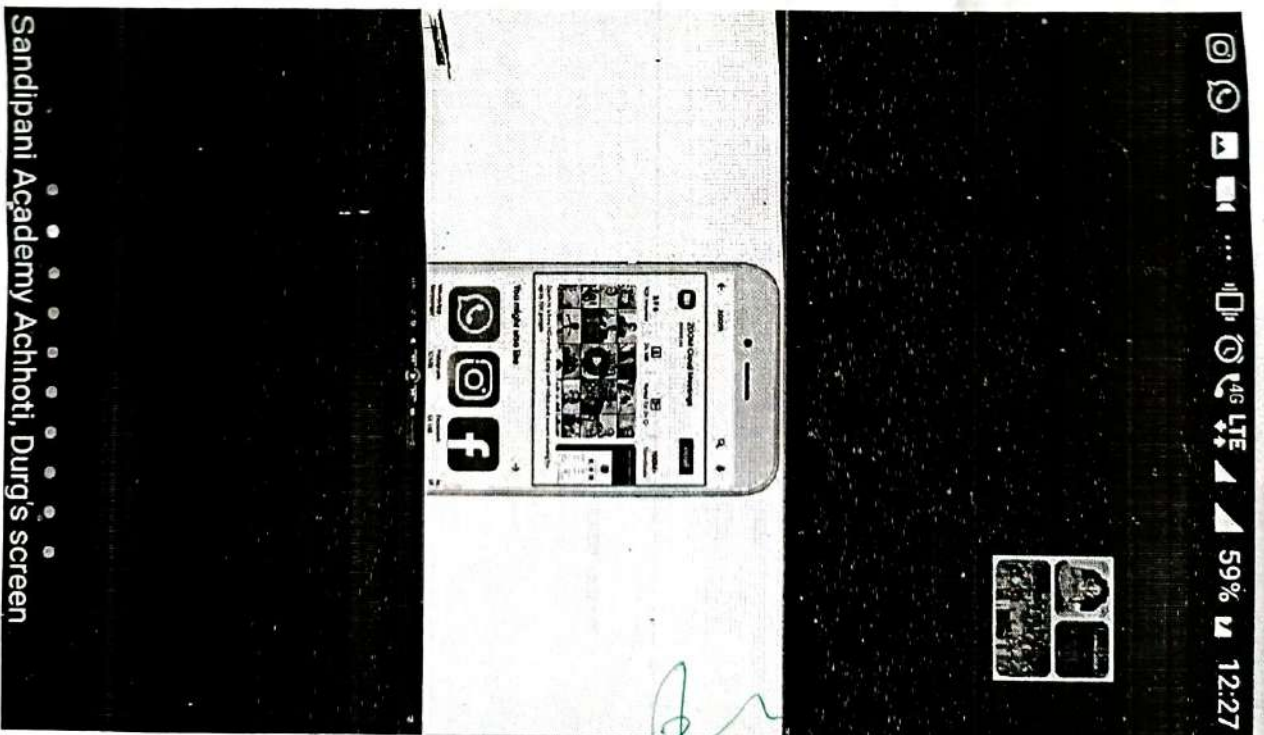
Join Zoom Meeting

<https://us04web.zoom.us/j/77085188598?pwd=cQSoha8jQtZR8pBJIOLhLOWVjVAcuQ.1>

Meeting ID: 770 8518 8598

Passcode: HM8DYY

  
Principal  
(Educ)  
Sandipani  
Achhoti, Distt. Durg, C.G.



Principal  
Educ  
Sandipani  
Achhoti, Dist. Durg (CG)



Close Participants (94)

N	Nandini		
NS	neha sahu		
NS	Neha sahu		
NS	Nehaldeep Sahu		
NS	Nida sultan		
NM	Nileta Minj		
N	Nivedita Shukla		
N	Nutan		
O	Ogeshwar		
OS	Om Sinha		

Invite



Connecting to audio...

Sandipani Academy Achhoti, Durg



Principal  
(E)  
sandipani  
Achhoti (Durg)

**लाइफ स्किल प्रोग्राम**


संदीपनी एकेडमी अछोटी मुरमुंदा (दुर्ग) के तत्वाधान में आज दिनांक 03/02/22 "E- Content learning" पर लाइफ स्किल प्रोग्राम ऑनलाइन जूम मीटिंग के माध्यम से संपन्न कराया गया। सुश्री सोनम शुक्ला सहायक प्राध्यापक (ITI) द्वारा व्याख्यान प्रस्तुत किया गया आज के ऑनलाइन E- content प्रोग्राम में यह बताया गया कि अभी जो ऑनलाइन कक्षाएं चल रही हैं उनमें पढ़ने वाले विद्यार्थी ऑनलाइन मीटिंग का उपयोग कैसे कर सकते हैं तथा इसके साथ ही कुछ ऑनलाइन ई- कंटेंट के अलग-अलग एप्लीकेशन के बारे में बताया गया, जिनकी सहायता से आप पढ़ाई कर सकते हैं तथा कुछ अन्य एप्लीकेशन ऐसे भी बताए गए जिसकी सहायता से आप स्टूडेंट्स के इनफॉर्मेशन एंड नॉलेज में इंप्रूवमेंट कर सकते हैं जिनमें से कुछ एप्लीकेशन गूगल मीट, जूम मीटिंग, और अन्य एप्लीकेशन के बारे में महत्वपूर्ण जानकारी दी गई कार्यक्रम का कुशल संचालन व स्वागत श्री विनोद साहू सहायक प्राध्यापक एवं कार्यक्रम के अंत सुश्री अंकिता बरवा द्वारा किया गया।

इस कार्यक्रम को सफल बनाने में संस्था के प्रशासनिक अधिकारी श्री विनीत चौबे, विभागाध्यक्ष-डॉ. संध्या पुजारी, मुख्य सलाहकार डॉ.-आभा दुबे एवं संस्था के समस्त स्टाफ का योगदान सराहनीय रहा।

  
**डॉ. संध्या पुजारी**

**(विभागाध्यक्ष)**

**Head of Department**  
**BA B.Ed. & B.Sc. B.Ed.**  
**Sandipani Academy**  
**Achhoti, Distt- Durg**

  
**Principal**

**Sand**  
**Achhoti**

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## Notice

Date:-06/10/2021

All Students of Sandiapni Academy, Achhoti are informed that Online Learning information related presentation is going to be held on 9<sup>th</sup> Oct. 2021 at 10pm onwards. It is mandatory to attend all students in this presentation on Topics-

1-Swayam Prabha

2-E-resources

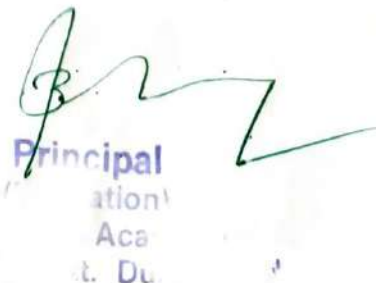
3-Learning Management System.

Venue - 3<sup>rd</sup> Floor Seminar Hall



Principal

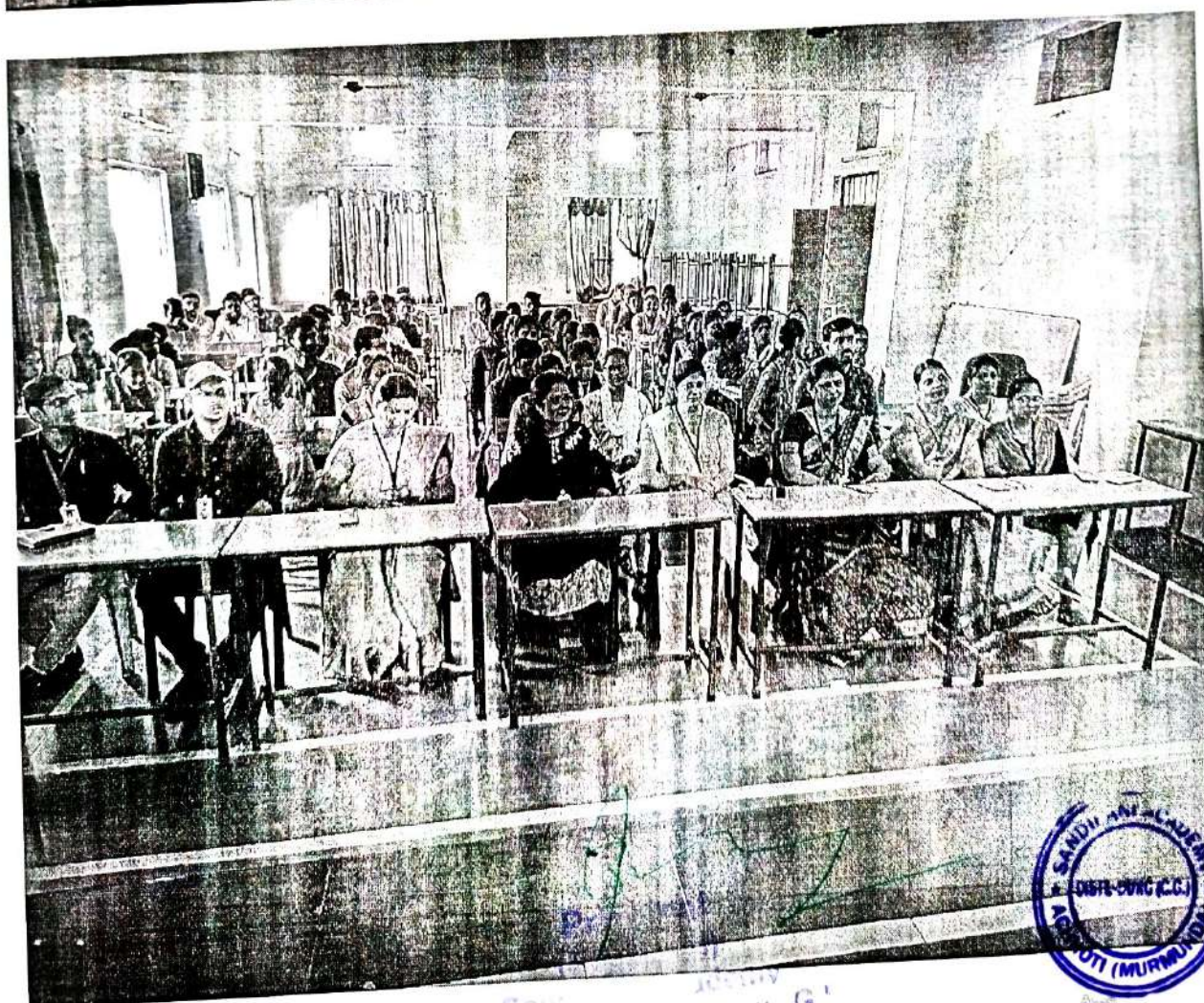
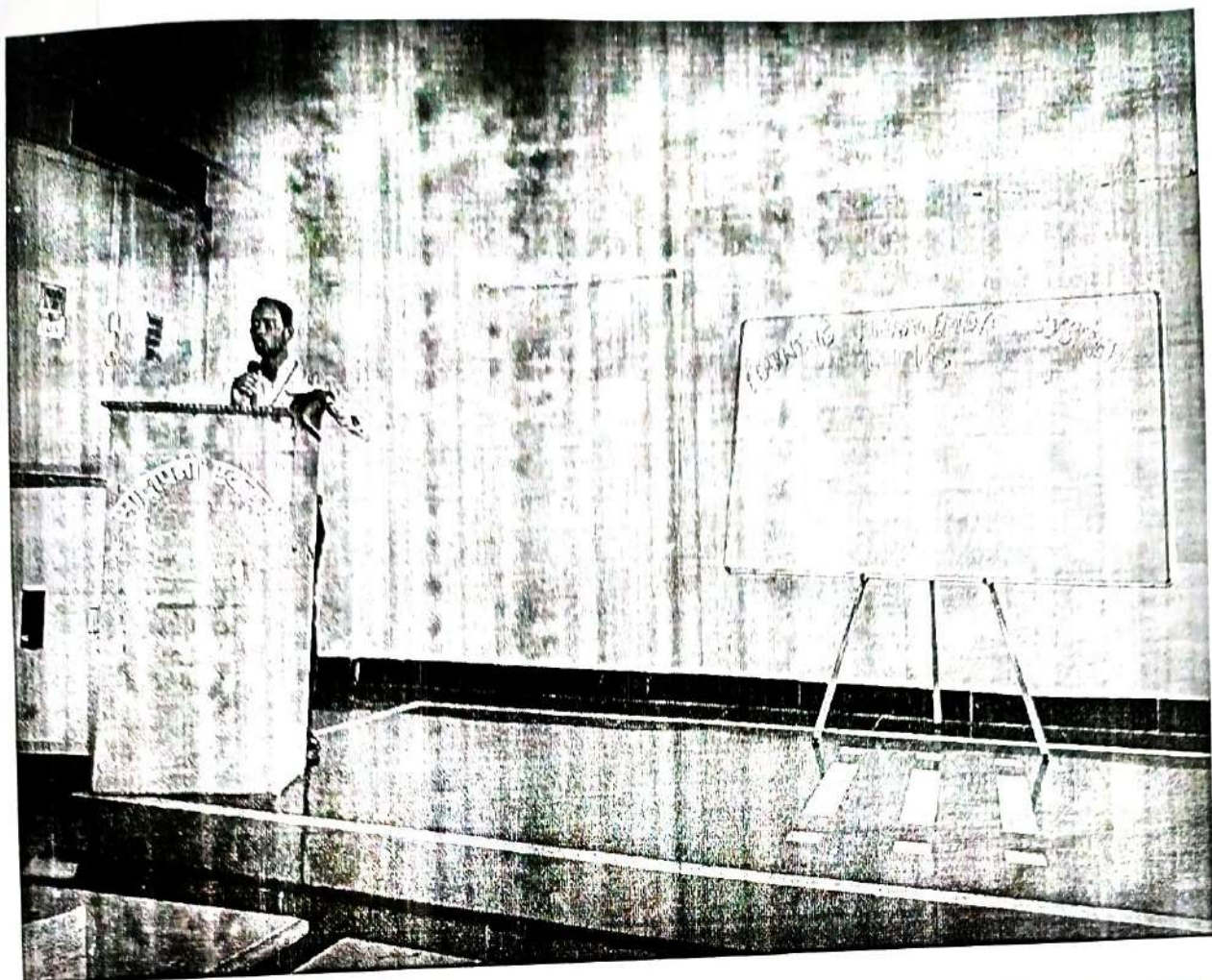
**Dr. Nazia Ahmed**  
Sandipani Academy, Achhoti



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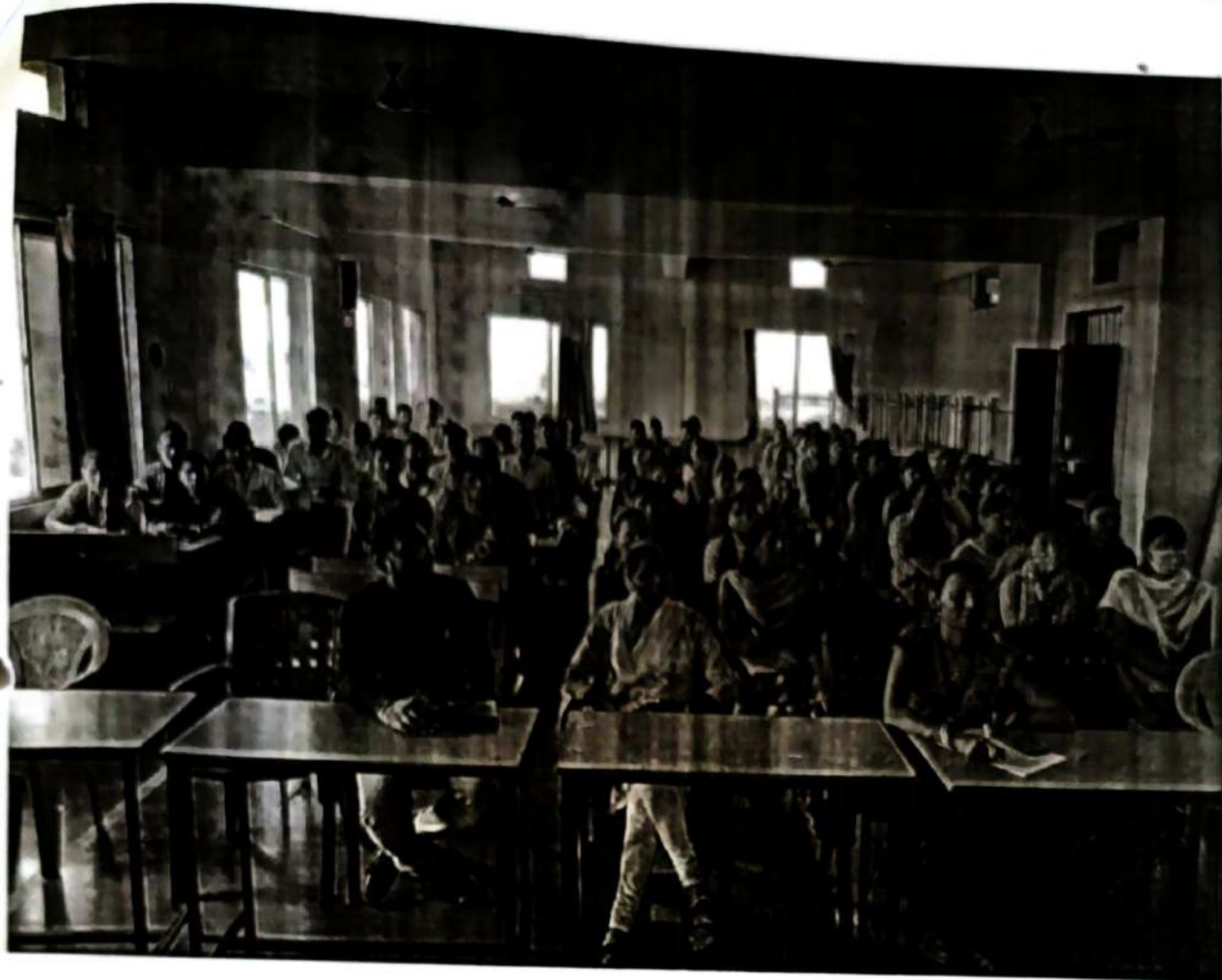




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Principal

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# **SANDIPANI ACADEMY**

## **ACHHOTI(MURMUNDA),DURG(C.G.)**

### **Learning Management System**

सांदीपनी एकेडमी अछोटी दुर्ग (छ.ग.) के शिक्षा विभाग के तत्वाधान में दिनांक 09/10/21 दिन शनिवार को टीचिंग एंड लर्निंग प्रोसेस के तहत ऑनलाइन शिक्षण जानकारी दी गयी जैसे कि =

1. Learning management system

2. E - resources

3. E - resources

इस प्रकार से लिंक के बारे में जानकारी दी गयी

1. Swayam - <https://swayam.gov.in>

2. Diksha - [disha.gov.in](https://disha.gov.in)

3. E- pg pathshala - link available on university site.

4. Swayamprabha - [www.swayamprabha.gov.in](http://www.swayamprabha.gov.in)

5. NDLI ( national digital library of India) - <https://ndli.iitkgp.ac.in/>

6. E- shodhsindhu - <https://ess.inflibnet.ac.in/oes>

7. NPTEL - [www.nptel.ac.in](http://www.nptel.ac.in)

8. Virtual labs - [virtuallabs.gov.in](http://virtuallabs.gov.in)

इत्यादि महत्वपूर्ण जानकारी दी गई कार्यक्रम का कुशल संचालन श्री विवेक देवांगन (सहायक प्राध्यापक) एवं कार्यक्रम की अंत में आभार वक्त श्रीमती प्रीति देवांगन ( सहायक प्राध्यापक) द्वारा किया गया ।

इस कार्यक्रम को सफल बनाने में संस्था के निर्देशक आदरणीय श्री महेंद्र चौबे , संचालक श्री विनीत चौबे , प्राचार्या डॉ. नाजिया अहमद, विभागाध्यक्ष डॉ. संध्या पुजारी ,मुख्य सलाहकार डॉ. आभा दुबे एवं संस्था के समस्त स्टाफ का योगदान सराहनीय रहा।

  
**Principal**  
(Education)  
Sandipani Academy  
Achhoti, Distt. Durg (C G )

  
**प्रधान**  
(श्री. पाणिपति बहगुन)  
विद्या विद्या  
सांदीपनी एकेडमी  
अछोटी, जिला-दुर्ग (छ.ग.)



**Sandipani Academy, Acchoti, Murmunda**  
**Annual Academic Calendar**  
**B.Sc. B.Ed. & B.A. B.Ed. III Year - 2021-2022**

Month	Activities (Academic)	Co-curricular Activities
<b>July 2021</b>		
<b>August 2021</b>		
<b>September 2021</b>	Online/Offline class as per Govt. Order Explanation of B.Sc. B.Ed. And B.A. B.Ed. –III Year Curriculum Introduction of Syllabus 1 Unit of each subject including Elective and Pedagogy Practical of each subject	Assembly ( NEWS Reading, Thought of the Day), Guest Lectures Life Skill Program National Days Celebration Co-Curricular Activities
<b>October 2021</b>	One unit of each subject Practical of each subject Unit Test Assignment Provided Orientation about School Internship	Assembly ( NEWS Reading, Thought of the Day), Guest Lectures Life Skill Program National Days Celebration Co-Curricular Activities
<b>Nov. 2021</b>	One Month School Internship	School Internship Activity
<b>Dec. 2021</b>	2 Unit of each subject Practical of each subject Submission of Assignment Unit Test	Assembly ( NEWS Reading, Thought of the Day), Guest Lectures Life Skill Program National Days Celebration Co-Curricular Activities
<b>January 2022</b>	One Unit of each subject Practical of each subject Unit Test	Assembly ( NEWS Reading, Thought of the Day), Guest Lectures Life Skill Program National Days Celebration Co-Curricular Activities
<b>Feb. 2022</b>	Revision and remedial Classes Model Exam University Practical Exam	Guest Lecture
<b>Mar.2022</b>	University Annual Examination	

  
 Principal  
 Sandipani Academy  
 Achhoti, Distt. Durg (C.G.)



**Sandipani Academy, Achhoti, Murmunda**  
**Annual Academic Calendar**  
**B.Sc. B.Ed. & B.A. B.Ed. IV Year - 2021-2022**

Month	Activities (Academic)	Co-curricular Activities
<b>July 2021</b>		
<b>August 2021</b>		
<b>September 2021</b>	Explanation of B.Sc. B.Ed. and B.A.B.Ed. –IV Year Curriculum Online/Offline class as per Govt. Order Introduction of Syllabus 2 Units of each subject including Elective & Pedagogy Subject	Assembly ( NEWS Reading, Thought of the Day), Guest Lectures Life Skill Program National Days Celebration Co-Curricular Activities
<b>October 2021</b>	One Unit of each subject including Elective & Pedagogy Subject Assignment Unit Test Orientation about Internship	Assembly ( NEWS Reading, Thought of the Day), Guest Lectures Life Skill Program National Days Celebration Co-Curricular Activities
<b>Nov. 2021</b>	Three Month School Internship (Online)	<b>Internship</b>
<b>Dec. 2021</b>	School Internship (Online)	<b>Internship</b>
<b>January 2022</b>	One Unit of each subject including Elective & Pedagogy Subject Unit test Completion of Reflective Diary and lesson Plan Submission of Assignment Submission of Records (Lesson Plan, Reflective Diary and Observation Copy)	Assembly ( NEWS Reading, Thought of the Day), Guest Lectures Life Skill Program National Days Celebration Co-Curricular Activities
<b>Feb. 2022</b>	Revision and Remedial Classes Model Exam University Practical Exam	Guest Lecture
<b>Mar. 2022</b>	University Annual Examination	

  
 Principal  
 Sandipani Academy  
 Achhoti, Distt. Durg (C.G.)





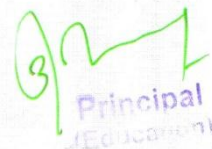
**Sandipani Academy, Achhoti, Murmunda**  
**Annual Academic Calendar**  
**B.Sc. B.Ed. & B.A. B.Ed. I Year - 2021-2022**

Month	Activities (Academic)	Co-curricular Activities
<b>Sep. to Oct. 2021</b>	Counseling and Admission	
<b>November 2021</b>	Introduction Program Explanation of B.Sc. B.Ed. And B.A. B.Ed. Year Curriculum Online/Offline class as per Govt. Order Introduction of Syllabus 1 Unit of each subject Unit Test	Assembly ( NEWS Reading, Thought of the Day), Guest Lectures Life Skill Program National Days Celebration Co-Curricular Activities
<b>December 2021</b>	2 Units of each subject Practical of each subject Unit test Assignment	Assembly ( NEWS Reading, Thought of the Day), Online Guest Lectures Life Skill Program National Days Celebration Co-Curricular Activities
<b>January 2022</b>	2 Units of each subject Practical of each subject Unit test Submission of Assignment	Assembly ( NEWS Reading, Thought of the Day), Online Guest Lectures Life Skill Program National Days Celebration Co-Curricular Activities
<b>February 2022</b>	Revision and Remedial Classes University Practical Exam Model Exam	Guest Lectures
<b>March 2022</b>	University Annual Examination Preparation Leave	

  
 Principal  
 Sandipani Academy  
 Achhoti, Distt. Durg (C.G.)

**Sandipani Academy, Achhoti, Murmunda**  
**Annual Academic Calendar**  
**B.Sc. B.Ed. & B.A. B.Ed. II Year - 2021-2022**

Month	Activities (Academic)	Co-curricular Activities
<b>July 2021</b>		
<b>August 2021</b>		
<b>September 2021</b>	Online/Offline class as per Govt. Order Explanation of B.Sc. B.Ed.& B.A B.Ed II Year Curriculum Introduction of Syllabus	Assembly ( NEWS Reading, Thought of the Day), Online Guest Lectures Life Skill Program National Days Celebration Co-Curricular Activities
<b>October 2021</b>	One unit of each subject including Elective Paper Practical of each subject Unit Test Assignment	Assembly ( NEWS Reading, Thought of the Day), Online Guest Lectures Life Skill Program National Days Celebration Co-Curricular Activities
<b>Nov. 2021</b>	<b>School Observation one Month</b>	
<b>Dec. 2021</b>	2 Units of each subject including Elective Paper Practical of each subject Submission of Assignment Unit Test	Assembly ( NEWS Reading, Thought of the Day), Online Guest Lectures Life Skill Program National Days Celebration Co-Curricular Activities
<b>January 2022</b>	One Unit of each subject including Elective Paper Practical of each subject Unit Test	Assembly ( NEWS Reading, Thought of the Day), Online Guest Lectures Life Skill Program National Days Celebration Co-Curricular Activities
<b>Feb. 2022</b>	Revision and remedial Classes Model Exam University Practical Exam	Guest Lecture
<b>March 2022</b>	Annual University Exam	

  
 Principal  
 Sandipani Academy  
 Achhoti, Distt. Durg (C.G.)



कार्यालय आयुक्त उच्च शिक्षा  
ब्लॉक सी-3, द्वितीय एवं तृतीय तल, इन्द्रावती भवन,  
नवा रायपुर, अटल नगर (छ.ग.)

(Email - highereducation.cg@gmail.com Website - www.highereducation.cg.gov.in)

क्रमांक 1722/213/आउशि/सम./2021  
प्रति,

नवा रायपुर, अटल नगर दिनांक 26/07/21

1. कुलसचिव,  
समस्त विश्वविद्यालय (छ.ग.)
2. प्राचार्य,  
समस्त शासकीय महाविद्यालय (छ.ग.)

विषय :- शैक्षणिक सत्र 2021-22 हेतु अकादमिक कैलेंडर विषयक ।

संदर्भ :- अवर सचिव छ.ग. शासन उच्च शिक्षा विभाग का पत्र क्रमांक एफ 17-83/2018/38-2  
दिनांक 19.07.2021

—00—

उपर्युक्त संदर्भित विषयान्तर्गत लेख है कि छ.ग.उच्च शिक्षा विभाग द्वारा शैक्षणिक सत्र 2021-22 का अकादमिक कैलेंडर जारी किया गया है, जो मूलतः संलग्न कर प्रेषित है।

कृपया उक्त अकादमिक कैलेंडर का कड़ाई से पालन करना सुनिश्चित करें।

(आयुक्त, उच्च शिक्षा द्वारा अनुमोदित)

संलग्न :- उपरोक्तानुसार

  
26.7.2021  
अपर संचालक

उच्च शिक्षा संचालनालय,

नवा रायपुर अटल नगर(छ.ग.)

पृ.क्रमांक/1723/213/आउशि/सम/2021

प्रतिलिपि :-

नवा रायपुर अटल नगर दिनांक 26/7/21

अवर सचिव छ.ग. शासन, उच्च शिक्षा विभाग मंत्रालय महानदी भवन नवा रायपुर  
अटल नगर छ.ग. को सूचनार्थ ।

  
26.7.2021  
अपर संचालक

उच्च शिक्षा संचालनालय,  
नवा रायपुर अटल नगर(छ.ग.)

छत्तीसगढ़ शासन  
उच्च शिक्षा विभाग  
::मंत्रालय::

महानदी भवन, नवा रायपुर अटल नगर, रायपुर  
[Email-higher-education@cg.gov.in](mailto:Email-higher-education@cg.gov.in)

No.: L-201	22	2043
AD	CK / JDI	AD
Section	अवर सचिव	8
Date	22 JUL 2021	C.H.E.

क्रमांक एफ 17-83/2018/38-2  
प्रति

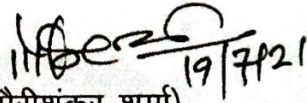
नवा रायपुर अटल नगर, रायपुर, 19/7/21

आयुक्त,  
उच्च शिक्षा संचालनालय,  
इंद्रावती भवन,  
नवा रायपुर अटल नगर, रायपुर।

विषय:- शैक्षणिक सत्र 2021-22 हेतु अकादमिक कैलेंडर विषयक।  
संदर्भ:- आपका प्रस्ताव क्रमांक 1595/213/आउशि/सम./2021 दिनांक 25.06.2021

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उपरोक्त विषयांतर्गत संदर्भित प्रस्ताव के संबंध में आगामी शैक्षणिक सत्र 2021-22 का अकादमिक कैलेंडर आवश्यक कार्यवाही हेतु संलग्न प्रेषित है।  
संलग्न:- यथोपरि।

  
(गौरीशंकर शर्मा)  
अवर सचिव

छ0ग0 शासन, उच्च शिक्षा विभाग

नवा रायपुर अटल नगर, रायपुर,

क्रमांक एफ 17-83/2018/38-2  
प्रति,

- विशेष सहायक, माननीय मंत्रीजी, उच्च शिक्षा विभाग,, मंत्रालय, नवा रायपुर अटल नगर, रायपुर।
- निज सचिव, सचिव छत्तीसगढ़ शासन, उच्च शिक्षा विभाग, मंत्रालय, नवा रायपुर अटल नगर, रायपुर।
- विशेष कर्तव्यस्थ अधिकारी, उच्च शिक्षा विभाग, मंत्रालय, नवा रायपुर अटल नगर, रायपुर।

की ओर सूचनार्थ अग्रेषित।

- गार्ड फाईल।

अवर सचिव  
छ0ग0 शासन, उच्च शिक्षा विभाग



**उच्च शिक्षा विभाग, छत्तीसगढ़**  
**शैक्षणिक सत्र 2021-22 का अकादमिक कैलेंडर**  
**(कोविड-19 महामारी के कारण केवल इसी सत्र हेतु)**

क्र.	विवरण	तिथियाँ
1	प्रवेश प्रक्रिया (प्राचार्य का अधिकार)	
	(क) स्नातक प्रथम वर्ष हेतु	02.08.2021 से 31.08.2021
	(ख) अन्य कक्षाओं हेतु	परीक्षा परिणाम घोषित होने के 15 दिवस के अंदर
	(ग) प्रवेश प्रक्रिया विश्वविद्यालय के माध्यम से ऑनलाइन पद्धति से सम्पन्न कराए जाये।	
2	कुलपति की अनुमति से प्रवेश की अंतिम तिथि	15.09.2021
3	नियमित कक्षाएँ प्रारंभ	02.08.2021 (नवीनीकरण विद्यार्थियों हेतु) 01.09.2021 (नवीन विद्यार्थियों हेतु)
4	वार्षिक परीक्षा परिणामों की घोषणा	परीक्षा पूर्णता के 15 दिन के अन्दर
5	पुनर्मूल्यांकन के सभी परिणामों की घोषणा	30.09.2021
6	पूरक परीक्षा का आयोजन	(न्यूनतम समय में)
7	पूरक परीक्षा के परिणामों की घोषणा	30.10.2021
8	छात्रसंघ गतिविधियाँ	
	(क) छात्रसंघ गठन चुनाव प्रक्रिया एवं शपथ ग्रहण	21.09.2021 से 30.09.2021 (विषम परिस्थितियों में शासन के निर्देश मान्य होंगे।)
9	खेलकूद एवं सांस्कृतिक, गतिविधियाँ :-	
	(क) खेलकूद प्रतिस्पर्धा प्रारम्भ (इंडोर आउटडोर)	
	(ख) खेलकूद प्रतिस्पर्धाओं का समापन (इंडोर आउटडोर)	विषम परिस्थितियों में शासन के निर्देश मान्य होंगे।
	(ग) महाविद्यालय स्तर पर खेलकूद (इंडोर आउटडोर) का वार्षिक आयोजन एवं पुरस्कार वितरण	
10	एन सी.सी. / एन.एस.एस. एवं अन्य गतिविधियाँ :-	
	(क) वृक्षारोपण कार्यक्रम	जुलाई 2021 का द्वितीय सप्ताह
	(ख) महाविद्यालय स्तर पर वार्षिकोत्सव का आयोजन	21, 22 एवं 23 दिसम्बर 2021 में से कोई एक दिन
	(ग) एनसीसी / एनएसएस कैम्प का आयोजन	25.10.2021 से 31.12.2021 के मध्य
	(घ.) दीक्षान्त समारोह	फरवरी 2021

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27/6/21



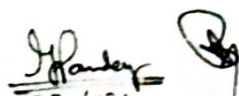
विवरण		तिथियाँ
अवकाश		
(अ)	दशहरा अवकाश (3 दिन)	14.10.2021 से 16.10.2021 तक
(ब)	दीपावली अवकाश (4 दिन)	03.11.2021 से 06.11.2021 तक
(स)	शीतकालीन अवकाश (3 दिन)	23.12.2021 से 25.12.2021 तक
(द)	ग्रीष्मकालीन अवकाश (15 दिन)	16.06.2022 से 30.06.2022 तक
12	आंतरिक परीक्षाओं का कार्यक्रम	
1	प्रथम यूनिट परीक्षा	05.10.2021
2	द्वितीय यूनिट परीक्षा	03.11.2021
3	प्रथम सत्र परीक्षा	01 से 03 दिसम्बर 2021
4	तृतीय यूनिट परीक्षा	05.01.2022
5	द्वितीय सत्र परीक्षा	20 से 22 जनवरी 2022
6	चतुर्थ यूनिट परीक्षा	08.02.2022
7	प्री- फाइनल परीक्षा	22, 23 एवं 24 फरवरी 2022
13	वार्षिक परीक्षा कार्यक्रम	
1	वार्षिक प्रायोगिक परीक्षाओं का आयोजन	26.03.2022 से 09.04.2022
2	वार्षिक परीक्षाओं का आयोजन	16.04.2022 से 15.06.2022

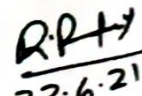
नोट:- अपरिहार्य कारणवश शैक्षणिक कार्य दिवस निर्धारित मानक 180 दिवसों से कम होने की स्थिति में समस्त महाविद्यालयों एवं विश्वविद्यालयों में अपने स्तर पर शैक्षणिक कालखण्डों की अवधि में वृद्धि कर शैक्षणिक दिवसों की पूर्ति की जाए ताकि अकादमिक कलेण्डर का पालन सुनिश्चित हो।

नियमित विद्यार्थी के रूप में वार्षिक परीक्षा में बैठने की पात्रता :-

1. प्रत्येक विषय में ऑनलाइन/ऑफलाइन कक्षाओं में 75 प्रतिशत उपस्थिति अनिवार्य है।
2. कुल 7 आंतरिक परीक्षाओं कक्षाओं में से कम से कम 5 में सम्मिलित होना आवश्यक है।
3. एन.सी.सी./एन.एस.एस. कैम्प/खेलकूद/राज्य स्तरीय प्रतिस्पर्धाओं में सम्मिलित हुए छात्रों को उपस्थित माना जावेगा।
4. ऑनलाइन/ऑफलाइन कक्षाओं में उपस्थिति की प्रथम गणना 30 नवम्बर तक की जावेगी।
5. कम उपस्थिति वाले छात्रों को तथा उनके पालकों को सूचना दी जावेगी।
6. ऑनलाइन/ऑफलाइन कक्षाओं में उपस्थिति की द्वितीय गणना 28 फरवरी तक की जावेगी।





  
22.6.21

  
22.6.21



**(सेमेस्टर कक्षाओं के लिए)**

अकादमिक कार्य	स्नातकोत्तर (I/III/V/VII/IX सेमेस्टर)	स्नातकोत्तर (II/IV/VI/VIII/X सेमेस्टर)
कक्षाएँ प्रारंभ	1 अक्टूबर, 2021 (शुक्रवार)	05 फरवरी, 2022 (शनिवार)
शैक्षणिक कार्य	1 अक्टूबर, 2021 से 15 जनवरी, 2022	07 फरवरी, 2022 से 05 मई 2022
प्रायोगिक परीक्षाएँ	जनवरी 2022 के प्रथम सप्ताह	मई 2022 के द्वितीय सप्ताह
परीक्षा पूर्व तैयारी	10 जनवरी, 2022 से 15 जनवरी, 2022	10 मई, 2022 से 16 मई, 2022
सेमेस्टर परीक्षा	17 जनवरी, 2022 से 05 फरवरी 2022 तक	16 मई, 2022 से 10 जून 2022
परीक्षा परिणाम	मार्च, 2022 के प्रथम सप्ताह तक	जुलाई, 2022 के द्वितीय सप्ताह तक

**शिक्षक के कर्तव्य एवं निर्देश**

प्रत्येक कार्य दिवस पर शिक्षक को महाविद्यालय/विश्वविद्यालय शिक्षण विभाग में 07 घण्टे रुकना आवश्यक होगा।

1. प्रातः कालीन पाली के लिए - प्रातः 07:30 से 02:30 अपरान्ह
2. द्वितीय कालीन पाली के लिए - प्रातः 10:30 से 05:30 संध्या
3. 07 घण्टे का कार्य विवरण -  
6 घण्टे अध्ययन-अध्यापन कार्य  
(प्रायोगिक, ट्यूटोरियल, रेमेडियल, शोधकार्य, लाईब्रेरी वर्क शामिल है।)

1 घण्टा अन्य कार्य (खेलकूद, रिक्रियेशन, प्राचार्य द्वारा प्रदत्त कार्य, विद्यार्थियों का शंका समाधान, नैक मूल्यांकन संबंधी कार्य)

4. समस्त प्रकार की बैठक/स्टॉफ कौंसिल की बैठक दोपहर 03:00 बजे के पश्चात् आयोजित की जावे।
5. विश्वविद्यालय द्वारा आयोजित परीक्षाओं के संचालन एवं मूल्यांकन से संबंधित कार्य का अनिवार्यतः निष्पादन करेंगे।

*[Signature]*

*[Signature]*

**R.P.H.**  
22.6.21

*[Signature]*  
22/6/21

छ.ग. शासन, उच्च शिक्षा विभाग के निर्देशानुसार सभी महाविद्यालयों एवं विश्वविद्यालयों में हेल्प डेस्क का गठन कर विद्यार्थियों को वांछित जानकारी प्रदान करेंगे।

7. कोविड-19 के प्रभाव के कारण विलंब से सत्र प्रारंभ हो रहा है। अतः पाठ्यक्रम को पूर्ण करने के लिए अध्यापन हेतु महाविद्यालय स्तर पर कालखण्ड में यथोचित समय वृद्धि की जाये।
8. अध्ययन-अध्यापन की पद्धति में सुधार करते हुए महाविद्यालय में सूचना प्रौद्योगिकी मानक का विस्तार किया जाये। विद्यार्थियों को ई-लर्निंग पद्धति से अवगत कराया जाये एवं शासन के ई-लर्निंग पोर्टल का उपयोग अध्यापन हेतु किया जाये।
9. गूगल क्लासरूम, गूगल हैंगआउट, वेबेक्स मीटिंग, यू-ट्यूब स्ट्रीमिंग, स्वयंम प्लेटफार्म एवं स्वयंम प्रभा जैसे ऑनलाईन माध्यम की सहायता से अध्ययन-अध्यापन किया जाए।
10. अधिकतम 40 प्रतिशत पाठ्यक्रम ऑनलाईन माध्यम से तथा अधिकतम 60 प्रतिशत पाठ्यक्रम परम्परागत तरीके / ऑफलाइन से पूर्ण कराया जाए।

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*J. Pandey*  
22.6.21

*Sanjay*  
22/06/21

*R. P. 47*  
22.6.21

*QZ*  
22/6/21

*26.7.2021*  
अपर संचालक  
उच्च शिक्षा संचालनलय  
अटल नगर, जिला रायपुर (छ.ग.)



# Sandipani Academy, Achhoti

Academic Calendar

B. Ed III Semester

Session 2021-2022

Month	Activities Academic	Co-curricular Activities
<b>September 2021</b>	Introduction of Syllabus Commencement of Classes Two Units of Each Subject Including <b>Optional and Pedagogical Subjects</b> Orientation Program on School Internship Microteaching Lesson Plan Preparation Class	Assembly ( NEWS Reading, Thought of the Day), Guest Lectures Life Skill Program National Days Celebration Co-Curricular Activities
<b>October 2021</b>	One Unit of Each Subjects Including <b>Optional and Pedagogical Subjects</b> School Internship Providing Assignment Reflective Diary & Lesson Plan Copy Distribution	Assembly ( NEWS Reading, Thought of the Day), Online Guest Lectures Life Skill Program National Days Celebration Co-Curricular Activities
<b>November 2021</b>	One Unit of Each Subjects Including <b>Optional and Pedagogical Subjects</b> School Internship	Assembly ( NEWS Reading, Thought of the Day), Online Guest Lectures Life Skill Program National Days Celebration Co-Curricular Activities Guest Lecture
<b>December 2021</b>	One Unit of each subjects including <b>Optional and Pedagogical Subjects</b> School Internship Assignments Submission	Students Submission of Examination Forms
<b>January 2022</b>	Remedial Class Reflective Diary and lesson Plan copy submission Completion of Syllabus Online University Examination	Answer Copy Submission of Semester Examination

**Note:**

- 1) Discussion on School Education system.
- 2) Movie Review
- 3) Yoga / Meditation Saturday
- 4) Seminar by students



**Principal**  
(Education)

Sandipani Academy  
Achhoti, Dist. Durg (C.G.)



Principal

## Sandipani Academy, Achhoti

Academic Calendar

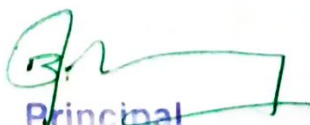
B. Ed First Semester

Session 2021-2022

Month	Activities Academic	Co-curricular Activities
<b>October 2021</b>	<b>Counseling and Admission Process</b>	
<b>November 2021</b>	Introduction/ Explanation of B.Ed I Semester Curriculum Commencement of classes One Unit of Each Subjects including <b>Pedagogical Subjects</b> Teaching Aids Preparation	Assembly ( NEWS Reading, Thought of the Day), Online Guest Lectures Life Skill Program National Days Celebration Co-Curricular Activities
<b>December 2021</b>	Explanation of B.Ed.- I Semester Curriculum Commencement of classes Two Unit of Each Subjects including <b>Pedagogical Subjects</b> Providing Assignment Extra Class Teaching Aids Submission	Assembly ( NEWS Reading, Thought of the Day), Induction Program Guest Lectures Life Skill Program National Days Celebration Co-Curricular Activities
<b>January 2022</b>	Community Activity on Environment Two Unit of Each Subjects including <b>Pedagogical Subjects</b> Online University Examination Assignment Submission	Assembly ( NEWS Reading, Thought of the Day), Guest Lectures Offline Classes Answer Copy Submission of Semester Examination

**Note:**

- 1) Discussion on School Education system.
- 2) Movie Review
- 3) Yoga / Meditation Saturday
- 4) Seminar by students

  
**Principal**  
(Education)

Sandipani Academy  
Achhoti, Distt. Durg (C G ')

  
**Principal/HOD**



## Sandipani Academy, Achhoti

Academic Calandar


B. Ed II Semester

Session 2021-2022

Month	Activities Academic	Co-curricular Activities
<b>February 2022</b>	Explanation of B.Ed.-II Semester Curriculum Commencement of classes One Unit of Each Subjects including <b>Elective</b> Subject Orientation Lecture on School Observation Microteaching	Assembly ( NEWS Reading, Thought of the Day) Guest Lectures Life Skill Program National Days Celebration Co-Curricular Activities Two Days Seminar on Indian School and Foreign School System
<b>March 2022</b>	Providing Assignment School Observation Copy Distribution Two Unit of Each Subjects including <b>Elective</b> Subject	Assembly ( NEWS Reading, Thought of the Day), Guest Lectures Life Skill Program National Days Celebration Co-Curricular Activities
<b>April 2022</b>	Assignment Submission 1 Month School Observation	Sports Day Celebration Guest Lecture Co-Curricular Activities
<b>May 2022</b>	Two Unit of Each Subjects including <b>Elective</b> Subject Completion of Syllabus Remedial Class	Students Submission of Examination Form School Observation Copy Submission
<b>June 2022</b>	University Examination ( Online Examination)	

**Note:**

- 1) Discussion on School Education system.
- 2) Movie Review
- 3) Yoga / Meditation Saturday
- 4) Seminar by students

  
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(Education)  
Sandipani Academy  
Achhoti, Distt. Durg (C G )

  
Principal/ H.O.D

## Sandipani Academy, Achhoti

Academic Calendar

B. Ed IV Semester

Session 2021-2022

Month	Activities Academic	Co-curricular Activities
<b>February 2022</b>	Introduction Of Syllabus Commencement Of Classes One Unit of Each Subject including <b>Elective</b> Subject Orientation Lecture On Psychometric Practical	Assembly ( NEWS Reading, Thought of the Day), Guest Lectures Life Skill Program National Days Celebration Co-Curricular Activities Two Days Seminar on Indian School and Foreign School System
<b>March 2022</b>	Two Unit of Each Subjects including <b>Elective</b> Subjects Providing Assignment Project Work On Yoga And Sports Psychometric Assessment Practical	Assembly ( NEWS Reading, Thought of the Day), Guest Lectures Life Skill Program National Days Celebration Co-Curricular Activities
<b>April 2022</b>	One Unit of Each Subject including <b>Elective</b> Subject Psychometric Assessment Practical Submission Of Project Work On Yoga And Sports	Sports Day Celebration Guest Lecture Microteaching
<b>May 2022</b>	One Unit of Each Subject including <b>Elective</b> Subject Completion of Syllabus Remedial Class	Students Submission of Examination Form
<b>June 2022</b>	University Examination	

**Note:**

- 1) Discussion on School Education system.
- 2) Movie Review
- 3) Yoga / Meditation Saturday
- 4) Seminar by students

  
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 Achhoti, Distt. Durg (C G)

  
**Principal/ H.O.D**



B.Sc. B.Ed. II<sup>nd</sup> year

**BOTANY**

**PAPER - I**

**DIVERSITY OF SEED PLANTS AND THEIR SYSTEMATICS**

**UNIT-I.1.** Characteristics of seed plants ; evolution of the seed habit ; seed plants with(angiosperms) and without (gymnosperms) fruits ; fossil and living seed plants.

2. General features of gymnosperms and their classification ; evolution and diversity of gymnosperms ; geological time scale, fossilization and fossil gymnosperms.

**UNIT-II** 3. Morphology of vegetative and reproductive parts ; anatomy of roots, stem and leaf, reproduction and life cycle of Pinus, Cycas and Ephedra.

**UNIT-III** 4. Angiosperms : origin and evolution, some examples of primitive angiosperms.

5. Angiosperms taxonomy : brief history, aims and fundamental components; identification, keys taxonomic literature.
6. Botanical nomenclature : Principles and rules; taxonomic ranks; type concept; principle of priority.

**UNIT-IV** 7. Classification of angiosperms ; salient features of the systems proposed by Bentham and Hooker and Engler and Prantl.

8. Major contributions of cytology, phytochemistry and taximetrics to taxonomy.

**UNIT-V** 9. Diversity of flowering plants : General account of the families Ranunculaceae, Brassicaceae, Malvaceae, Rutaceae, Fabaceae, Apiaceae, Acanthaceae, Apocynaceae, Asclepiadaceae, Solanaceae, Lamiaceae, Chenopodiaceae, Euphorbiaceae, Liliaceae and Poaceae.

Note: Unit - I & 2 is removed from Paper - I

And unit III, IV & V are premixed for Unit I & II  
(Paper Name Changed)

## PAPER - II

### STRUCTURE DEVELOPMENT AND REPRODUCTION IN FLOWERING PLANTS

- UNIT-I.** 1. The basic body plan of a flowering plant : modular type of growth. Diversity in plant form in annuals, biennials and perennials ; convergence of evolution of tree habit in gymnosperms, monocotyledons and dicotyledons ; trees-largest and longest-lived organisms.

**UNIT-II** The shoot system : the shoot apical meristem and its histological organization ; vascularization of primary shoot in monocotyledons and dicotyledons ; formation of internodes, branching pattern ; monopodial and sympodial growth canopy architecture ; cambium and its functions ; formation of secondary xylem, a general account of wood structure in relation to conduction of water and minerals ; characteristics of growth rings, sapwood and heart wood ; role of woody skeleton ; secondary phloem - structure-function relationships, periderm.

**UNIT-III** Leaf: origin, development, arrangement and diversity in size and shape ; internal structure in relation to photosynthesis and water loss ; adaptations to water stress ; senescence and abscission.  
The root system: the root apical meristem ; differentiation of primary and secondary tissues and their roles ; structural modification for storage, respiration, reproduction and for interaction with microbes.

**UNIT-IV** Flower : a modified shoot ; structure, development and varieties of flower, functions, structure of anther and pistil, the male and female gametophytes ; types of pollination ; attractions and rewards for pollinators ; pollen-pistil interaction, self incompatibility, double fertilization, formation of seed-endosperm and embryo ; fruit development and maturation.

**UNIT-V** Significance of seed : suspended animation ; ecological adaptation ; unit of genetic recombination and replenishment, dispersal strategies.

Vegetative reproduction : vegetative propagation, grafting, economic aspects.

### PRACTICAL SCHEME

Time : 4 Hrs.

1. Plant Description	08
2. Gymnosperm	07
3. Anatomy	07
4. Embryology	04
5. Spotting (1-5 Spots)	10
6. Field Report (Local Flora : Rainy/Winter/Summer Season)	04
7. Viva-Voce	05
8. Sessional	05

Total Marks :50

Approx >30% of the syllabus have been replaced with new topics & old topics transferred to another paper (Paper Name Changed)



**ZOOLOGY**  
**PAPER - I**  
**ANATOMY & PHYSIOLOGY**

**MM : 50**

- UNIT-I** Comparative Anatomy of various organ systems of vertebrates.
1. Integument and its derivatives : structure of scales, hair and feathers.
  2. Alimentary canal and digestive glands in vertebrates.
  3. Respiratory Organs  
Gills and lung, Air-Sac in birds
- UNIT-II**
1. Endoskeleton-Limbs, girdles and vertebrae.
  2. Circulatory System - Evolution of heart and aortic arches.
  3. Urinogenital System - Kidney and excretory ducts.
- UNIT-III**
1. Nervous System - General plan of brain and spinal cord.
  2. Endocrine glands - classification and histology.
  3. Gonads and genital ducts.
- UNIT-IV**
1. Digestion and absorption of dietary components.
  2. Physiology of heart, Cardiac cycle and ECG.
  3. Blood Coagulation.
  4. Respiration-Mechanism and control of breathing.
- UNIT-V**
1. Excretion-Physiology of excretion, Osmoregulation.
  2. Physiology of Muscle contraction.
  3. Physiology of nerve impulse, Synaptic transmission.
  4. Ear and Eye - structure and function.

**LIST OF RECOMMENDED BOOKS :**

1. Conn, Stumpy RK, Bruening and D.C. : Outlines of Biochemistry.
2. Gaviong : Review of Medical Physiology.
3. Eckest, R. : Animal Physiology (W.H. Freeman)
4. Hildbrand : Analysis of Vertebrate structure
5. Kingsley : Outlines of Comparative Anatomy (Central Book Depot)
6. Rouer & Parsons : The Vertebrate Body, (Saunders)
7. Walta & Gyles : Biology of the Vertebrates (Macmillan)

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## **PAPER - II**

### **VERTEBRATE ENDOCRINOLOGY, REPRODUCTIVE BIOLOGY BEHAVIOUR, EVOLUTION AND APPLIED ZOOLOGY**

- UNIT-I**
1. General Characters of Hormones.
  2. Hormone Receptor
  3. Biosynthesis and secretion of thyroid, Adrenal ; Ovarian and testicular hormones.
  4. Endocrine disorder due to hormones and other gland.
- UNIT-II**
1. Reproductive cycle in vertebrate.
  2. Menstruation, Lactation and pregnancy.
  3. Mechanism of parturition.
  4. Hormonal regulation of gametogenesis.
  5. Extra embryonic membrane.
- UNIT-III**
1. Evidences of organic evolution.
  2. Theories of organic evolution.
  3. Variation, Mutation, Isolation and Natural selection.
  4. Evolution of Horse.
- UNIT-IV**
1. Introduction to Ethology.
  2. Patterns of Behaviour Taxes, Reflexes, Drives and Stereotyped Behaviour.
  3. Reproductive Behavioural Patterns.
  4. Hormones, Drugs and Behaviour.
- UNIT-V**
1. Aquaculture
  2. Sericultural
  3. Apiculture
  4. Pisciculture
  5. Poultry keeping
  6. Elements of Pest Control -
    1. Chemical control
    2. Biological Control

### **PRACTICAL WORK**

The practical work in general shall be based on the syllabus prescribed in theory. The students will be required to show the knowledge of the following.

1. Study of the representative examples of the different chordates (Classification and character)
2. Dissection of various systems of scoliodon-Afferent and Efferent branchial vessels, cranial nerves, internal ear.
3. Simple microscopic technique through unstained or stained permanent mounts.
4. Study of prepared slides histological, as per theory papers.
5. Study of limb girdles and vertebrae of frog, varanus, fowl and Rabbit.
6. Identification of species and individuals of honey bee.
7. Life cycle of honey bee and silkworm.





## **PRACTICAL WORK - DISTRIBUTION OF MARKS**

- |   |    |
|---|----|
| 1. Major dissection                                   | 12 |
| (Cranial nerves/Efferent branchial vessel)            |    |
| 2. Minor dissection (Afferent branchial/Internal ear) | 08 |
| 3. Permanent mount                                    | 09 |
| 4. Spotting-8 (Slides-4, bones-2, specimens-2)        | 16 |
| 5. Viva   | 05 |
| 6. Sessional marks                                    |    |
| <b>Total : 50</b>                                     |    |

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## **New Curriculum of B.Sc. Part-II**

### **CHEMISTRY**

The new curriculum will comprise of three papers of 33, 33 & 34 marks each and practical work of 50 marks. The curriculum is to be completed in 180 working days as per the UGC norms & conforming to the directives of the Govt. of Chhattisgarh. The Theory papers are of 60 hrs. each duration & the practical work of 180 hrs. duration.

#### **PAPER - I**

#### **INORGANIC CHEMISTRY**

**M.M. 33**

#### **UNIT-I CHEMISTRY OF ELEMENTS OF FIRST TRANSITION SERIES**

Characteristic properties of d-block elements. Properties of the elements of the first transition series, their binary compounds and complexes illustrating relative stability of their oxidation states, coordination number and geometry.

#### **UNIT-II CHEMISTRY OF ELEMENTS OF SECOND & THIRD TRANSITION SERIES**

General characteristics, comparative treatment with their 3d-analogues in respect of ionic radii, oxidation states, magnetic behaviour, spectral properties and stereochemistry.

#### **UNIT-III A. OXIDATION AND REDUCTION**

Use of redox potential data analysis of redox cycle, redox stability in water-Frost, Latimer & Pourbaix diagrams. Principles involved in the extraction of the elements.

#### **B. COORDINATION COMPOUNDS**

Werner's coordination theory and its experimental verification, effective atomic number concept, chelates, nomenclature of coordination compounds, isomerism in coordination compounds, valence bond theory of transition metal complexes.

#### **UNIT-IV A. CHEMISTRY OF LANTHANIDE ELEMENTS**

Electronic structure, oxidation states and ionic radii and lanthanide contraction, complex formation, occurrence and isolation, lanthanide compounds.

#### **B. CHEMISTRY OF ACTINIDES**

General features and chemistry of actinides, chemistry of separation of Np, Pu and Am from uranium, similarities between the later actinides and the later lanthanides.



## UNIT-V A. ACID AND BASES

Arrhenius, Bronsted-Lowry, the Lux-flood, solvent system and Lewis concepts of acids and bases.

## N. NON-AQUEOUS SOLVENTS

06 HRS.

Physical properties of a solvent, types of solvents and their general characteristics, reaction in non-aqueous solvents with reference to liquid ammonia and liquid sulphur dioxide.

### REFERENCE BOOKS :

1. Basic Inorganic Chemistry, F.A. Cotton, G. Wilkinson and P.L. Gaus, Wiley
2. Concise Inorganic Chemistry, J.D. Lee, ELBS.
3. Concepts of models of Inorganic Chemistry, B. Douglas, D. Mc Daniel and J. Alexander, John Wiley.
4. Inorganic Chemistry, D.E. Shriver, P.W. Atkins and C.H. Langford, Oxford.
5. Inorganic Chemistry, W.W. Porterfield. Addison - Wesley.
6. Inorganic Chemistry. A.G. Sharp, ELBS.
7. Inorganic Chemistry, G.L. Miessler and D.A. Tarr, Prentice Hall.
8. Advanced Inorganic Chemistry, StayasPrakash.
9. Advanced Inorganic Chemistry, Agarwal&Agarwal.
10. Advanced Inorganic Chemistry, Puri & Sharma, S. Naginchand
11. Inorganic Chemistry, Madan, S, Chand
12. AadhunikAkarbanicRasayan, A.K. Shrivastav& P.C. Jain, Goel Pub.
13. UcchattarAkarbanicRasayan, SatyaPrakash& G.D. Tuli, ShyamlalPrakashan
14. UcchattarAkarbanicRasayan, Puri& Sharma.
15. Selected topic in Inorganic Chemistry by Madan Malik, &Tuli, S. Chand.

*Signature*

☆ Nominal updates in syllabus.

**PAPER - II**  
**ORGANIC CHEMISTRY**

**60 Hrs. MM 33**

**UNIT-I ALCOHOLS**

- A. Dihydric alcohols - nomenclature, methods of formation, chemical reactions of vicinal glycols, oxidative cleavage [ $\text{Pb}(\text{OAc})_4$  and  $\text{HIO}_4$ ] and pinacol - pinacolone rearrangement.
- B. Trihydric alcohols - nomenclature and methods of formation, chemical reactions of glycerol.

**PHENOLS**

- A. Structure and bonding, in phenols, physical properties and acidic character. Comparative acidic strength of alcohols and phenols, resonance stabilization of phenoxide ion. Reactions of phenols, acylation and carboxylation.
- B. Mechanisms of Fries rearrangement, Claisen rearrangement, Gatterman synthesis, Hauben - Hoesch reaction, Lederer - Manasse reaction and Reimer-Tiemann reaction.

**EPOXIDES**

Synthesis of epoxides. Catalysed ring opening of epoxides, orientation of epoxide ring opening, reactions of Grignard and organolithium reagents with epoxides. Anti 1,2-dihydroxylation of alkenes via epoxides. Crown ethers.

**UNIT-II ALDEHYDES AND KETONES**

- A. Nomenclature and Structure of the carbonyl group. Synthesis of aldehydes and ketones using 1,3 - dithianes, synthesis of ketones from nitriles.

Mechanism of nucleophilic additions to carbonyl group Benzoin, Aldol, Perkin and Knoevenagel condensations. Condensations with ammonia and its derivatives, Wittig reaction, Mannich reaction.

- B. Use of acetate as protecting group, Oxidation of aldehydes, Baeyer - Villiger oxidation of ketones, Cannizzaro reaction, MPV, Clemmensen Condensation, Wolff-Kishner reaction,  $\text{LiAlH}_4$  and  $\text{NaBH}_4$  reduction. Halogenation of enolizable ketones.

An introduction to  $\alpha, \beta$  unsaturated aldehydes and ketones.

**UNIT-III A. CARBOXYLIC ACIDS**

**05 HRS.**

Structure and bonding, Physical properties, acidity of carboxylic acids, effects of substituents on acid strength. Hell-Volhard-Zelinsky reaction. Reduction of carboxylic acids. Mechanism of Decarboxylation.

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**\* Nominal updates  $\rightarrow$  Syllabus.**



Methods of formation and chemical reactions of unsaturated mono carboxylic acids. Di carboxylic acids : methods of formation and effect of heat and dehydrating agents.

## **B. SUBSTITUTED CARBOXYLIC ACIDS**

Hydroxy and Halo-substituted Acids.

## **C. CARBOXYLIC ACID DERIVATIVES**

Structure of acid chlorides, esters, amides and acid anhydrides. Relative stability of acyl derivatives. Physical properties, interconversion of acid derivatives by nucleophilic acyl substitution.

Mechanisms of acid and base catalyzed esterification and hydrolysis.

## **UNIT-IV ORGANIC COMPOUNDS OF NITROGEN**

A. Preparation of nitroalkanes and nitroarenes. Chemical reactions of nitroalkanes. Mechanisms of nucleophilic substitution in nitroarenes and their reduction in acidic, neutral and alkaline medium.

B. Reactivity, Structure and nomenclature of amines, physical properties. Stereochemistry of amines. Separation of mixture of primary, secondary and tertiary amines. Structural features affecting basicity of amines. Preparation of alkyl and aryl amines (reduction of nitro compounds, nitriles), reductive amination of aldehydic and ketonic compounds. Gabriel - phthalimide reaction, Hofmann bromamide reaction, Reactions of amines, electrophilic aromatic substitution in aryl amines, reactions of amines with nitrous acid. Synthetic transformations of aryl diazonium salts, azo coupling.

## **UNIT-V HETEROCYCLIC COMPOUNDS**

### **A. Introduction**

Molecular orbital picture and aromatic character of pyrrole, furan, thiophene and pyridine, methods of synthesis and chemical reactions with emphasis on the mechanism of electrophilic substitution. Mechanism and nucleophilic substitution reaction in pyridine derivatives. Comparison of basicity of pyridine. Piperidine and pyrrole.

B. Preparation and reaction of Indole, quinoline and isoquinoline and with special reference to Fischer Indole synthesis and Skraup synthesis and Bischer-Napieralski synthesis, Mechanism of electrophilic substitution reactions of indole, quinoline and isoquinoline.

### **Amino acids and Peptides:**

A. Classification, Structure and stereochemistry of amino acids. Acid-base

behaviour, isoelectric point and electrophoresis. Preparation and reaction of  $\alpha$ -amino acids.

B. Structure and nomenclature of peptides. Peptide synthesis, solid - phase peptide synthesis.

*Dr. S. M.*

**PAPER - III**  
**PHYSICAL CHEMISTRY**

60 Hrs.

**UNIT-I**

**A. Thermodynamics - I**

Fundamental of thermodynamics system, surroundings etc. Types of systems, intensive and extensive properties, state and path functions thermodynamic operations Internal energy, enthalpy, Heat capacity of gases at constant volume and at constant pressure and their relationship.

First Law of Thermodynamics limitation of first law. Joule-Thompson expansion, inversion temperature of gases. Calculation of  $w, q, dU$  &  $dH$  for the liquification expansion of ideal gases under isothermal and adiabatic conditions.

**B. Thermo chemistry**

Standard state, - Hess's law of heat summation. Enthalpy of reaction at constant pressure and constant volume. Enthalpy of neutralizations. Enthalpy of combustion, Enthalpy of formation, Calculation of Bond enthalpy. Elirchhoff's equation.

**Unit - II**

**A Thermodynamics-II**

Second Law of Thermodynamics : Spontaneous process need of second law, statements of Carnot cycle and efficiency of heat engine, Carnot theorem. Thermodynamic state of temperature. Concept of entropy : entropy change in a reversible and irreversible process, Entropy change in isothermal reversible expansion of an ideal gas, Entropy change in isothermal mixing of ideal gases, physical signification of entropy.

B. Gibbs and Helmholtz free energy variation of  $G$  and  $A$  with pressure, volume temperature, Gibbs Helmholtz equation.

**UNIT-III**

**PHASE EQUILIBRIUM**

A. Gibbs Phase rule, Phase components and degree of freedom, Limitation of phase rule.

Applications of phase rule to one component system - water system, sulphur system.

*over*

\* **NOMINAL UPDATES IN SYLLABUS**



Three component systems : solid solution liquid pairs.

Liquid liquid mixture : (Partially miscible liquids) : phenol-water, trimethylamine-water nicotine systems, constant temperature, azeotrops.

B. Nerst distribution law, Henry's law, application, solvent extraction.

#### UNIT-IV ELECTROCHEMISTRY-I

10 HRS.

- A. Electrolytic Conductance : Specific and equivalent conductance, measurement of equivalent conductance, effect of dilution on conductance, Kohlrausch's law; application of Kohlrausch's law in determination of dissociation constant of weak electrolyte, solubility of sparingly soluble electrolyte, absolute velocity of ions, ionic product of water, conductometric titration.
- B. Theories of strong electrolytes : limitations of Ostwald dilution law, weak and strong electrolyte, Debye-Huckel-Onsager (DHO) equation for strong electrolyte, relaxation and electrophoretic effect.
- C. Migration of ions : Transport number, definition and determination by Hittorf method and moving boundary method.

#### UNIT-V ELECTROCHEMISTRY-II

10 HRS.

- A. Electrochemical cell or Galvanic cell : reversible and irreversible cells conventional representation of electrochemical cells, EMF of the cell, effect of temperature on EMF of the cell, Nernst equation, calculation of  $\Delta G$ ,  $\Delta H$  and  $\Delta S$  for cell reaction.
- B. Single electrode potential : standard hydrogen electrode, calomel electrode quinhydrone electrode, redox electrodes, electrochemical series.
- C. Concentration cells with & without transport, liquid junction potential, application of concentration cell in determining valency of ions, solubility product, activity coefficient.
- D. Determination of pH and pKa using hydrogen and quinhydrone electrode potentiometric titrations, buffer solutions; Henderson-Hasselbalch Equation, Hydrolysis of salts, Corrosion : type theories and prevention.

*over*

## CHEMISTRY

The new curriculum will comprise of Three papers of 33,33, & 34 marks each and Practical work of 50 marks. The curriculum is to be completed in 180 working days as per the UGC norms & conforming to the directives of the Govt. of Chhattisgarh. The theory papers are of 60 hrs. each duration & the practical work of 180 hrs. duration.

### PAPER - I

#### INORGANIC CHEMISTRY

M.M. 33

##### UNIT-I METAL-LIGAND BONDING IN TRANSITION METAL COMPLEXES

Limitations of valence bond theory, an elementary idea of crystal field theory, crystal field splitting in octahedral, tetrahedral and square planar complexes, factors affecting the crystal field parameters.

Thermodynamic and kinetic aspects of metal complexes.

A brief outline of thermodynamic stability of metal complexes and factors affecting the stability, substitution reactions of square planar complexes.

##### UNIT-II MAGNETIC PROPERTIES OF TRANSITION METAL COMPLEXES

Types of magnetic behaviour, methods of determining magnetic susceptibility, spin only formula, L-S coupling, correlation of  $\mu_s$  and  $\mu_{eff}$  values, orbital contribution to magnetic moments, application of magnetic moment data for 3d metal complexes. Electronic spectra of Transition Metal Complexes. Types of electronic transitions, selection rules for d-d transitions, spectroscopic ground states, spectro-chemical series. Orgel-energy level diagram for d1 and d2 states, discussion of the electronic spectrum of complex.

##### UNIT-III ORGANOMETALLIC CHEMISTRY

Definition, nomenclature and classification of organo metallic compounds. Preparation, properties, bonding and applications of alkyls and aryls of Li, Al, Hg, Sn, & Ti. A brief account of metal-ethylenic complexes and homogeneous hydrogenation, mononuclear carbonyls and nature of bonding in metal carbonyls.

##### UNIT-IV BIOINORGANIC CHEMISTRY

Essential and trace elements in biological processes, metalloporphyrins with special reference to hemoglobin and myoglobin. Biological role of alkali and alkaline earth metals with special reference to  $Ca^{2+}$ , nitrogen fixation.

##### UNIT-V HARD AND SOFT ACIDS AND BASES (HSAB)

07 HRS.

Classification of acids and bases as hard and soft. Pearson's HSAB concept, acid-base strength and hardness and softness. Silanes, Silicones and Phosphazenes. Silanes and phosphazenes as examples of inorganic polymers, nature of bonding in triphosphazenes.

*Inorganic Polymers added*

*Some topics added to unit - III according to new syllabus*



**UNIT-I A. ORGANOMETALLIC COMPOUNDS**

Organomagnesium compounds : Grignard reagents-formation, structure and chemical reactions. Organozinc compounds: formation and chemical reactions.

Organolithium compounds : formation and chemical reactions.

**B. Organosulphur Compounds**

Nomenclature, structural features, methods of formation and chemical reactions of thiols, thioethers, sulphonic acids, sulphonamides and sulphaguanidine.

**Organic Synthesis via Enolates**

Active methylene group alkylation of diethylmalonate and ethyl acetoacetate. Synthesis of ethyl acetoacetate : the Claisen condensation. Keto-enol tautomerism of ethyl acetoacetate.

**UNIT-II BIOMOLECULES**

**A. Carbohydrates :**

Configuration of monosaccharides, threo and erythro diastereomers. Formation of glycosides ethers and esters Determination of ring size of monosaccharides. Cyclic structure of D(+) glucose. Structure of ribose and deoxyribose. An introduction to disaccharides (maltose, sucrose and lactose) and polysaccharides (starch and cellulose) without involving structure determination.

**B. Proteins and Nucleic acids**

Classification and structure of protein levels of protein structure, protein Denaturation / renaturation, Constituents of amino acids Ribonucleosides and ribonucleotides, double helical structure of DNA.

**UNIT-III A. Synthetic Polymers**

Addition or chain growth polymerization. Free radical vinyl polymerization, Ziegler-Natta polymerization, Condensation or Step growth polymerization, Polyesters, polyamides, phenols- formaldehyde resins, urea- formaldehyde resins, epoxy resins and polyurethanes, natural and synthetic rubbers.

*JSW*

**B. Synthetic Dyes**

Colour and constitution (Electronic Concept). Classification of Dyes. Chemistry of dyes. Chemistry and synthesis of Methyl Orange, Congo Red, Malachite Green, Crystal Violet, Phenolphthalein, fluorescein. Alizarine and Indigo.

**UNIT-IV SPECTROSCOPY**

**A. Mass spectroscopy:** mass spectrum fragmentation of functional groups.

**B. InfraRed Spectroscopy:** IR absorption Band their position and intensity, Identification of IR spectra.

**C. UV-Visible Spectroscopy:** Beer Lambert's law, effect of Conjugation max Visible spectrum and colour.

**D. Anthocyanin** as natural colouring matter (Introduction only)

**E. Application of Mass, IR, UV-Visible Spectroscopy to organic molecules.**

**UNIT-V**

**A. NMR Spectroscopy:** Introduction to NMR. Shielding and Number of signal in PMR, Chemical shift and characteristic values, splitting of Signals and Coupling constant. Application to organic molecules.

**B.  $^{13}\text{C}$ MR Spectroscopy:** Principal & Application.

**C. Magnetic Resonance Imaging (MRI)-** Introductory idea.

**REFERENCE BOOKS:**

1. Organic Chemistry, Morrison and Boyd, Prentice-Hall
2. Organic Chemistry, L.G. Wade Jr., Prentice-Hall
3. Fundamentals of Organic Chemistry, Solomons, John Wiley
4. Organic Chemistry, Vol. I, II, III. S.M. Mukherjee, S.P. Singh and R.P. Kapoor, Wiley-Eastern (New-Age)
5. Organic Chemistry, F.A. Carey, McGraw Hill
6. Introduction to Organic Chemistry, Streiweisser, Heathcock and Kosover, Macmillan
7. Organic Chemistry, P.L. Soni
8. Organic Chemistry, Bahi & Bahl
9. Organic Chemistry, Joginder Singh
10. Carbanic Rasayan, Bashi & Bahi
11. Carbanic Rasayan, R.N. Singh, S.M.I. Gupta, M.M. Bakodia & S.K. Wadhwa
12. Carbanic Rasayan, Joginder Singh.
13. Carbanic Resayan, P.L., Soni.
14. Corbanic Rasayan, Bhagchandani, Sahitya Bhawan Publication.
15. Rasayan Vigyan, Bhatnagar, Arun Prakashan.

Bit changed some syllabus



**PAPER - III**  
**PHYSICAL CHEMISTRY**

**UNIT-I QUANTUM MECHANICS**

Black body radiation, Plank's radiation law, photoelectric effect, Compton effect. DeBroglie's idea of matter waves, experimental verification Heisenberg's uncertainty principle, Sinosoidal wave equation, Operators : Hamiltonian operator, angular momentum operator, laplacian operators postulate of quantum mechanics Eigen values, Eigen function. Schrodinger time independed wave equation physical

Significance of and . Applications of Schrodinger wave equation: particle in one dimensional box Hydrogenation (separation into three equation's) radial wave function and angular wave function.

**UNIT-II QUANTUM MECHANICS-II**

Quantum mechanical approach of molecular orbit theory; basic idea criteria for forming M.O and A.O, LCAO approximation, formation of  $H_2^+$  ion, calculation of energy levels from wave functions bonding and antibonding wave functions concept of orbitals and their characteristics, Hybrid orbital :  $SP$ ,  $SP^2$ ,  $SP^3$ , Calculation of coefficients  $A$  and  $B$  used in these hybrid orbitals. Introduction to valence bond model of  $H_2$ , Comparison of M.O. and V.B. model, Huckle theory, application of huckel theory to ethane propene etc.

**UNIT-III SPECTROSCOPY-I**

- A. Introduction, characterization of electromagnetic radiation, regions of the spectrum, representation of spectra width and intensity of spectral transition, rotational spectra of calculated diatomic molecules, energy level of rigid rotator, selection rule, determination of bond length qualitative description of non - rigid rotator isotopic effect.
- B. Vibrational spectra - Fundamental vibrational and their symmetry, vibrating diatomic molecules, energy levels of simple harmonic oscillator. Selection Rule, Pure vibrational Spectrum, determination of force constant, diatomic vibrating operator. Anharmonic Oscillator.
- C. Raman Spectra : Concept of polarizability, quantum theory of Raman spectra stokes and anti stokes lines pure rotational and vibrational Raman spectra,

Application of Raman spectra stokes and anti stokes lines, pure rotational and vibrational Raman spectra, Applications of Raman spectra.

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#### UNIT-IV SPECTROSCOPY-II

- A. Electronic Spectra: Electronic Spectra of diatomic molecule, Frank London principle, types of electronic transitions. Applications of electronic spectra.
- B. Photo-chemistry: Interaction of radiation with matter, difference between thermal and photochemical processes. Laws of photochemistry. Grothus-Draper law, Stark-Einstein law, Jablonski diagram depicting various process occurring in the excited state, qualitative description of fluorescence, occurring in the excited state, qualitative description of fluorescence, phosphorescence, non-radiative processes (internal conversion, intersystem crossing), quantum yield photosensitized reactions energy transfer processes (simple examples).

#### UNIT-V

##### A. Thermodynamics

Energy referred to absolute zero, third law of thermodynamics Test of III law of thermodynamics Nerst heat theorem application and limitation of Nerst heat theorem.

- B. Physical properties and molecular structure : polarization of molecules, {Classius-Mosotti equation. orientation of dipoles in an electric field. Dipole moment, induced dipole moment, measurement of dipole moment. Temperature methods and refractivity methods. Dipole moment and molecular structure.
- C. Magnetic Properties: Paramagnetism diamagnetism, ferromagnetism. Determination of magnetic susceptibility, elucidation of molecular structure.

#### REFERENCE BOOKS:

1. Physical Chemistry, G.M. Barrow, International student edition, McGraw Hill
2. Basic programming with application, V.K. Jain, Tata McGraw-Hill
3. Computers & Common sense, R. Hunt & Shelly, Prentice-Hall
4. University general chemistry, C.N.R. Rao, Macmillan.
5. Physical Chemistry, R.A. Alberty, Wiley Eastern
6. The elements of Physical Chemistry, P.W. Atkins, Oxford
7. Physical Chemistry through problems, S.K. Dogra & S. Dogra, Wiley Eastern
8. Physical Chemistry, B.D. Khosla
9. Physical Chemistry, Puri & Sharma
10. Bhoutic Rasayan, Puri & Sharma
11. Bhoutic Rasayan, P.L. Soni
12. Bhoutic Rasayan, Bahl & Tuli

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\* Sequence of units changed



# B.Sc. B.Ed. - 3<sup>rd</sup> year old syllabus

## BOTANY

### PAPER-I

#### PLANT PHYSIOLOGY, BIOCHEMISTRY AND BIOTECHNOLOGY

**UNIT-I** Plant-water relations : Importance of water to plant life ; physical properties of water; diffusion and osmosis; absorption, transport of water and transpiration ; physiology of stomata.  
Mineral nutrition : Essential macro and micro-elements and their role ; mineral uptake; deficiency and toxicity symptoms.

**UNIT-II** Transport of organic substances : Mechanism of phloem transport ; source-sink relationship ; factors affecting translocation.  
Basic of enzymology : Discovery and nomenclature ; characteristics of enzymes ; concept of holoenzyme apoenzyme, coenzyme and cofactors ; regulation of enzyme activity, mechanism of action.  
Photosynthesis : Significance ; historical aspects ; photosynthetic pigments ; action spectra and enhancement effects ; concept of two photosystems; Z-scheme ; photo-phosphorylation ; Calvin cycle ; C4 pathway ; CAM plants ; photorespiration.

**UNIT-III** Respiration : ATP - the biological energy currency ; aerobic and anaerobic respiration;Kreb's cycle, electron transport mechanism (chemi-osmotic theory) ; redox potential; oxidative phosphorylation ; pentose phosphate pathway.  
Nitrogen and lipid metabolism : Biology of nitrogen fixation ;importance of nitrate reductase and its regulations ; ammonium assimilation ; structure and function of lipids; fatty acid biosynthesis ; Beta-oxidation ; saturated and unsaturated fatty acids; storage and mobilization of fatty acids.

**UNIT-IV** Growth and development : Definitions ; phases of growth and development ; kinetics of growth, seed dormancy, seed germination and factors of their regulation ; plant movements ; the concept of photoperiodism ; physiology of flowering ; florigen concept; biological clocks ; physiology of senescence, fruit ripening ; plant hormones auxins, gibberellins, cytokinins, abscisic acid and ethylene, history of their discovery, biosynthesis and mechanism of action; photomorphogenesis ; phytochromes and cryptochromes, their discovery, physiological role and mechanism of action.

**UNIT-IV** Genetic engineering : Tools and techniques of recombinant DNA technology ; cloning vectors ; genomic and cDNA library ; transposable elements ; techniques of gene mapping and chromosome walking.  
Biotechnology : Functional definition ; basic aspects of plant tissue culture ; cellular totipotency, differentiation and morphogenesis ; biology of Agrobacterium ; vectors for gene delivery and marker genes ; salient achievements in crop biotechnology.

Note - Entire syllabus has been changed

## PAPER-II

### ECOLOGY AND UTILIZATION OF PLANTS

**UNIT-I** Plants and environment : Atmosphere (gaseous composition), water (properties of water cycle), light (global radiation, photosynthetically active radiation), temperature, soil (development, soil profiles, physico-chemical properties), and biota.

Morphological, anatomical and physiological responses of plants to water (hydro-phytes and xerophytes), temperature (thermoperiodicity), light (photoperiodism, heliophytes and sciophytes) and salinity.

**UNIT-II** Community Ecology : Community characteristics, frequency, density, cover, life forms biological spectrum ; ecological succession.  
Ecosystems : Structure, abiotic and biotic components : food chain, food web, ecological pyramids, energy flow ; biogeochemical cycles of carbon, nitrogen and phosphorus.

**UNIT-III** Population ecology : Growth curves ; ecotypes ; ecads.  
Biogeographical regions of India.  
Vegetation types of India : Forests and grasslands.

**UNIT-IV** Utilization of Plants  
Food plants : Rice, wheat, maize, potato, sugarcane.  
Fibres : Cotton and jute.  
Vegetable oils : Groundnut, mustard and coconut  
General account of sources of firewood, timber and bamboos.

**UNIT-V** Spices : General account.  
Medicinal plants : General account  
Beverages : Tea and coffee.  
Rubber.

### PRACTICAL SCHEME

	M.M. 50
01. Physiology	08
02. Ecology	08
03. Utilization of Plants	05
04. Biochemistry / Biotechnology	05
05. Spotting (1-5 spots)	10
06. Project work	04
07. Viva V.	05
08. Sessional	05
	50

Note - Entire syllabus has been changed



# New Syllabus

**B.A. B.Ed. / B.Sc. B.Ed**

**PART - III**

**BOTANY**

**PAPER- I**

**(ANALYTICAL TECHNOLOGY PLANT PATHOLOGY, EXPERIMENTAL EMBRYOLOGY, ELEMENTARY BIOSTATISTICS, ENVIRONMENTAL POLLUTION AND CONSERVATION)**

## UNIT-I

Structure, Principle and applications of analytical instrumentation.  
Chromatography technique, Oven, Incubator, Autoclave, Centrifuge, Spectrophotometer

## UNIT-II

Plant Tissue culture techniques, growth media, totipotency, protoplast culture, somatic hybrids and cybrids, micropropagation, somaclonal variations, haploid culture.  
Analytical techniques: Microscopy-Light microscope, Electron microscope

## UNIT-III

General principles of plant pathology, general symptoms of fungal, bacterial and viral diseases, mode of infection] diseases resistance and control measures, plant quarantine. A study of epidemiology and etiology of following plant diseases.  
Rust diseases of wheat, Tikka diseases of ground nut, Red rot of sugar can, Bacterial blight of rice, yellow vein mosaic of b hindi, Little Leaf of brinjal.

## UNIT-IV

Introduction to pollution, green house gases, Ozone depletion, Dissolve oxygen, B.O.D., C.O.D.  
Bio magnification, Eutrophication, Acid precipitation, Pytoremediation. Plant indicators, Biogeographical Zones of India, Concept of Biodiversity, CBD, MAB, National parks and biodiversity Hot spots, Conservation strategies, Red Data Book, IUCN threat categories, invasive species, endemic species. concept of sustainable development.

## UNIT-V

### ELEMENTARY BIOSTATISTICS:

Introduction and application of Biostatics, measure of central tendency-Mean, Median, Mode, measures of dispersal-Standard deviation, standard error.

### Books Recommended:

Singh, RS, Plant Diseases, Oxford & IBH, New Delhi.  
Pandey, BP, Plant Pathology, S. Chand Publishing, New Delhi  
Sharma, PD, Microbiology and Plant pathology, Rastogi Publications, Meerut  
Sharma PD, Mycology and Phytopathology, Rastogi Publications, Meerut  
Singh JS, Singh SP and Gupta, SR, Ecology Environmental Science and Conservation, S. Chand Publishing, New Delhi  
Sharma, PD. Ecology and Environment, Rastogi Publications, Meerut  
Bhojwani, SS and Razdan, MK, Plant Tissue Culture: Theory and Practices, Elsevier  
Sharma AK, Text book of Biostatistics, Discovery Publishing House Pvt.Ltd.

**BOTANY**  
**PAPER- II**  
**(GENETICS, MOLECULAR BIOLOGY, BIOTECHNOLOGY AND BIOCHEMISTRY)**

**UNIT-I**

Cell and cell organelles, organization and morphology of chromosomes, giant chromosomes, cell division, Mendel's laws, gene interactions, linkage and crossing over, chromosomal aberration, polyploidy, sex linked inheritance, sex determination, cytoplasmic inheritance, gene concept: cistron, muton, recon.

**UNIT- II**

Nucleic acids, Structure and forms of DNA and RNA, DNA/RNA as genetic material, replication of DNA, biochemical and molecular basis of mutation, genetic code and its properties, mechanism of transcription and translation in prokaryotes, regulation of gene expression, Operon model.

**UNIT- III**

Recombinant DNA, Enzymes in recombinant DNA technology, cloning vectors (Plasmid, Bacteriophages, Cosmids, Phagemids), gene cloning, PCR, Application of Biotechnology; G.M.Plants, Monoclonal antibodies, DNA finger printing

**UNIT- IV**

Protein: Chemical composition, primary, secondary and tertiary structure of Proteins.  
Carbohydrate: general account of monosaccharides, disaccharids and Polysaccharides  
Fat: Structure and properties of fats and fatty acids, synthesis and breakdown.

**UNIT- V**

ENZYMES: Nomenclature and classification, components of enzymes, theories of enzyme action, enzyme kinetics (Michaelis-Menten constant), allosteric enzymes, isozymes, Abzymes. Ribozymes, factors affecting enzyme activity.

**Books Recommended:**

- Nelson, DL, Cox, MM, Lehninger Principles of Biochemistry, W.H. Freeman and Company, New York, USA.  
Cooper, GM, The Cell: A Molecular Approach, ASM Press & Sunderland, Washington, D.C. Sinauer Associates, MA.  
Singh BD, Fundamental of Genetics, Kalyani Publication  
Singh BD, Genetics, Kalyani Publication  
Gupta, PK, Cell and Molecular Biology, Rastogi Publications, Meerut  
Singh, BD, Biotechnology: Expanding Horizons, Kalyani Publications  
Gupta, PK, Elements of Plant Biotechnology, Rastogi Publications, Meerut  
Gupta, SN, concepts of Biochemistry, Rastogi Publications, Meerut  
Jain, JL, Jain S, Jain, N, Fundamentals of Biochemistry, S Chand Publishing, New Delhi



## Botany Practical

1. Study of host parasite relationship of plant diseases listed above.
2. Demonstration of preparation of Czapek's Dox medium and potato dextrose agar medium, sterilization of culture medium and pouring.
3. Inoculation in culture tubes and petriplates.
4. Gram Staining.
5. Microscopic examination of Curd.
6. Study of plant diseases as listed in the theory paper.
7. Biochemical test of carbohydrate and protein.
8. Instrumentation techniques

### PRACTICAL SCHEME (A/c to new syllabus)

TIME: 4 Hrs.

1. Plant Disease/Symptoms
2. Instrumentation techniques
3. Staining of Microbes
4. Tissue Culture techniques
5. Spotting
6. Project Work/ Field Study
7. Viva-Voce
8. Sessional

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**B.A. B.Ed. / B.Sc. B.Ed**

**PART - III**

**ZOOLOGY**

**Paper-I**

**ECOLOGY, ENVIRONMENTAL BIOLOGY: TOXICOLOGY, MICROBIOLOGY AND MEDICAL ZOOLOGY**

**Unit: I (Ecology)**

- Aims and scopes of ecology
- Major ecosystems of the world-Brief introduction
- Population- Characteristics and regulation of densities
- Communities and ecosystem
- Bio-geo chemical cycles
- Air & water pollution
- Ecological succession

**Unit: II (Environmental Biology)**

- Laws of limiting factor
- Food chain in fresh water ecosystem
- Energy flow in ecosystem- Trophic levels
- Conservation of natural resources
- Environmental impact assessment

**Unit: III (Toxicology)**

- Definition and classification of Toxicants
- Basic Concept of toxicology
- Principal of systematic toxicology
- Heavy metal Toxicity (Arsenic, Mercury, Lead, Cadmium)
- Animal poisons- snake venom, scorpion & bee poisoning
- Food poisoning

**Unit: IV (Microbiology)**

- General and applied microbiology
- Microbiology of domestic water and sewage
- Microbiology of milk & milk products
- Industrial microbiology: fermentation process, production of penicillin, alcoholic beverages, bioleaching.

**Unit: V (Medical Zoology)**

- Brief introduction to pathogenic microorganisms, Rickettsia, Spirochaetes, AIDS and Typhoid
- Brief account of life history & pathogenicity of the following pathogens with reference to man: prophylaxis & treatment
- Pathogenic protozoan's- Entamoeba, Trypanosome & Plasmodium
- Pathogenic helminthes- Schistosoma
- Nematode pathogenic parasites of man
- Vector insects

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## Zoology Paper II

### GENETICS, CELL PHYSIOLOGY, BIOCHEMISTRY, BIOTECHNOLOGY AND BIOTECHNIQUES

#### Unit: I (Genetics)

- Linkage & linkage maps, Sex Determination and Sex Linkage
- Gene interaction- Incomplete dominance & Codominance, Supplementary gene, Complementary gene, Epistasis Lethal gene, Pleiotropic gene and multiple alleles.
- Mutation: Gene and chromosomal mutation
- Human genetics: chromosomal alteration: Down, Edward, Patau, Turner and Klinefelter Syndrome Single gene disorders: Alkaptonuria, Phenylketonuria, Sickle cell anemia, albinism and colour blindness

#### Unit: II (Cell Physiology)

- General idea about pH & buffer
- Transport across membrane: Diffusion and Osmosis
- Active transport in mitochondria & endoplasmic reticulum
- Enzymes-classification and Action

#### Unit: III (Biochemistry)

- Amino acids & peptides- Basic structure & biological function
- Carbohydrates & its metabolism- Glycogenesis; Gluconeogenesis; Glycolysis; Glycogenolysis; Cose-cycle
- Lipid metabolism- Oxidation of glycerol; Oxidation of fatty acids
- Protein Catabolism- Deamination, transamination, transmethylation

#### Unit: IV (Biotechnology)

- Application of Biotechnology
- Recombinant DNA & Gene cloning
- Cloned genes & other tools of biotechnology (Tissue culture, Hybridoma, Transgenic Animals and Gene library)

#### Unit: V (Biotechniques)

1. Principles & techniques about the following:

- (i) pH meter
- (ii) Colorimeter
- (iii) Microscopy- Light microscopes: Compound, Phase contrast & Electron microscopes
- (iv) Centrifuge
- (v) Separation of biomolecules by chromatography & electrophoresis

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## **Zoology Practical**

The practical work in general shall be based on syllabus prescribed in theory.

The candidates will be required to show knowledge of the following:

- Estimation of population density, percentage frequency, relative density.
- Analysis of producers and consumers in grassland.
- Detection of gram-negative and gram-positive bacteria.
- Blood group detection (A,B,AB,O)
- R. B. C. and W.B.C count
- Blood coagulation time
- Preparation of hematin crystals from blood of rat
- Observation of Drosophila, wild and mutant.
- Chromatography-Paper or gel.
- Colorimetric estimation of Protein.
- Mitosis in onion root tip.
- Biochemical detection of Carbohydrate, Protein and Lipid.
- Study of permanent slides of parasites, based on theory paper.
- Working principles of pH meter, colorimeter, centrifuge and microscope.

### **Scheme of marks distribution**

**Time: 3:30hrs**

• Hematological Experiment	08
• Ecological Experiment: Grassland Ecosystem/ Population Density/Frequency/relative density	06
• Bacterial staining	05
• Biochemical experiment	06
• Practical based on Instrumentation (Chromatography/ pH meter/microscope/centrifuge.	05
• Spotting (5 spots)	10
7. Viva	05
8. Sessional	05

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New Syllabus  
2019

# Sociology of Tribal Society - X

## SOCIOLOGY

B.A. PART- III

PAPER-I

### FOUNDATIONS OF SOCIOLOGICAL THOUGHT

- UNIT-I** **August Comte:** The Law of Three Stages, Positivism, Hierarchy of Science.  
**Durkheim:** Social Solidarity and Suicide
- UNIT-II** **Karl Marx:** Dialectic Materialism, Class Struggle and Surplus value.  
**Max Weber:** Bureaucracy, Authority and the Protestant Ethic and the spirit of Capitalism.
- UNIT-III** **Pareto:** Circulation of Elits and Logical and Nonlogical action.  
**Spencer:** Social Darwinism, Superorganic evolutions.
- UNIT-IV** **Thorstein Veblen:** The Theory of Leisure Class, Theory of Social Change  
**R.K. Morton:** Functionalism and Reference Group.
- UNIT-V** **Development of Sociological thought in India:-**  
**Mahatma Ghandhi :** Ahimsa, Satya Graha and Trusteeship.  
**RadhaKamal Mukherjee:** The Concept of Value.

#### ESSENTIAL READINGS-

1. Barres, H.E.: Introduction to the sociology, Chicago the University of Chicago press 1959.
2. Coser, Levis a.: Master of Sociological thought, New York Harcourt Brace Jovanovich 1979.
3. Singh, Yogendra- Indian sociology: social conditioning and emerging friends. New Delhi vistaar 1986.
4. Zeitlin, Irving- (Indian edition) Rethinking sociology: A critique of contemporary theory, Jorpur Rawl 1999.

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**SOCIOLOGY ✓**  
**PAPER- II**  
**METHODS OF SOCIAL RESEARCH**

- UNIT-I**      **Social Research: Meaning, Characteristics and Significance.**  
Scientific Methods, Hypothesis.
- UNIT-II**      **Qualitative Research:** Ethnography, Observation, Case Study,  
Content analysis.
- UNIT-III**      **Research design:** Exploatory, Descriptive, Explanatory, Experimental  
and Diagnostic.
- UNIT-IV**      **Tools and Techniques of Social Research:** Social Survey, Sampling,  
Questionnaire, Interview- Schedule and Interview - Guide
- UNIT-V**      **Social Statistics:** Meaning, Importance and Limitations.  
Graphs, Diagram and Measures of Central Tendency- Mean, Mode,  
Median, Co-relation, Use of Computer in Social Research.

**ESSENTIAL READINGS-**

01. Young, P.V. (1977). Scientific Social Surveys and Research. Prentice Hall of India. New Delhi.
02. Bruce, C., & Margaret, M. (1993). Approaches to Social Research, New York: Oxford University Press.
03. Cohen, M & Nagel, E. (1994). An Introduction to Logic and Scientific Method. New York: Harcourt, Brace & Company.
04. Forcese, D., & Richer, S. (1973). Social Research Methods. Cliffs: Englewood, Cliffs, NJ.
05. Moser, C.A. (1962). Survey Methods in Social Research Investigation. London: Heinemann, Printce Hall.
06. Goode, & Hatt. (1952). Methods in Social Research. New York: MC Graw Hill Publishers.

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Paper - I<sup>st</sup>

~~Tribal Society in India~~ (New syllabus  
2019)

## ~~of~~ Sociology of Tribal Society

- Unit - I Tribes: Concept, Characteristics, Tribes and Schedule Tribes, Distinction between Tribe and caste.
- Unit - II Classification Tribal People: Food gatherers and hunters, shifting cultivators, Nomads, Peasant settled Agriculturists and Artisans.
- Unit - III Socio-cultural Profile - Kinship, Marriage, family Religion and belief cultural traditions.
- Unit - IV Social mobility and change sensitization schemes of Tribal Development, Various Tribe movement.
- Unit V Problems of Tribal People: Poverty, Illiteracy, Indebtedness, Agrarian issues, Exploitation study of Tribal communities in Chhattisgarh With special reference to particularly vulnerable Tribal groups.

## **SOCIOLOGY**

### **PAPER - II**

## **CRIME AND SOCIETY**

**UNIT-I** Conception and types of crime

Early Explanation - Classical, Positives, psychological.

**UNIT-II** Social structure and Anomiecriminality - suicide

Organized crime, white collar crime

Causes, consequences and remedies of Terrorism.

**UNIT-III** Indian Social Problems

Nature of Social change and crime in India Social Diso-Denization. Alcoholize.  
DrugAddiction, beggary.

**UNIT-IV** Punishment - Objectives and forms. Major theories of punishment  
Modern correctional concepts probation, parole open prison.

**UNIT-V** Correctional process-

Role of police and Judiciary in India Development of Jail reforms in India  
Sociology of Prison.

Shabir  
5/12/18



**Revised Syllabus**  
**SOCIOLOGY 2019-2020**  
**B.A. B.Ed. PART-I**

**Paper - I**

M.M.-75

**INTRODUCTION TO SOCIOLOGY (Paper Code-0115)**

**UNIT-I**

**Sociology:** Meaning, Nature, scope, Subject matter and signification.

**Basic Concepts:** Society, Community, institution, Association, group, Status and role.

**UNIT-II**

**Social institutions:** Marriage, Family and kinship.

**Culture and society:** Culture socialization, The individual and society, social control, norms and values.

**UNIT-III**

**Social Stratification:** Meaning, forms and theories.

**Social Mobility:** Meaning, forms and theories.

**UNIT-IV**

**Social change:** Meaning and patterns, types, factors, evolution and Progress.

**UNIT-V**

**Social System and process:** Social system- meaning, characteristics and elements.

**Social Process-** Meaning, elements, characteristics and types.

**ESSENIAL READINGS:-**

- 1 Bottomore T.B., Sociology-A guide to problems and Literature, Bombay. George Allen and unwin(India) 1972.
- 2 Inkeles, Alex, what is Sociology? New Delhi, Prentice Hall of Indai 1987.
- 3 Jayram, N., Introductory Sociology, Madras Maomillan India 1988.
- 4 Johnson Harry, M., Sociology of systematic Introduction New Delhi Allied publishers 1995.

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**Revised Syllabus**  
**Sociology 2019-2020**  
**B.A.B.Ed. PART-I**

Paper - II

M.M.-75

CONTEMPORARY INDIAN SOCIETY (Paper code-0116)

**UNIT-I**

**Classical view about Indian Society:** Verna, Asharam, Karma, Dharma and Purusharth.

**UNIT-II**

**The Structure and composition of Indian Society:** Structure; Village, Towns, Cities and Rural- Urban Linkage, Composition: Tribes, Dalits, Women and Minorities.

**UNIT-III**

**Basic Institution of Indian Society:** Caste system, Joint Family, Marriage and changing dimensions.

**UNIT-IV**

**Familial Problems:** Dowry, Domestic, violence, Intra-intergenerational conflict, problem of elderly.

**UNIT-V**

**Social Problems:** Surrogate Motherhood, Live in Relationship, Regionalism, Communalism, Corruption, youth unrest.

**ESSENIAL READINGS:-**

1. Dube, S.C. 1995. Society in India, New Delhi: National Book Trust.
2. Mandelbaum, D.G. 1970. Society in India, Bombay: Poular Prakashan.
3. Shrinivas, M.N. 1973. social Change in Modern India, California: University California Press.
4. Shrinivas, M.N. 1973. social Change Structure, New Delhi: Hindustan Publishing Corporation.
5. Uberoi Patricia, 1993. Family and Marriage in India, New Delhi: Oxford University Press.

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इकाई 1 : राजनीति विज्ञान का अर्थ, परिभाषा ( आधुनिक अवधारणा सहित ) । राजनीति एक विशिष्ट मानवीय व्यवहार के रूप में । शक्ति, सत्ता, प्रभाव : अर्थ, विशेषताएं, प्रकार । राजनीति विज्ञान की अध्ययन पद्धतियां : परम्परागत एवं व्यवहारवाद एवं उत्तर व्यवहारवाद ।

Unit 1: Meaning and Definition of Political Science (with modern concept). Politics as a specific human behaviour. Power, Authority and Influence: meaning, features and kinds. Method of Study to Political Science: Traditional, Behaviouralism and Post Behaviouralism.

इकाई 2 : राज्य एवं उसके आवश्यक तत्व । राज्योत्पत्ति के विभिन्न सिद्धान्त, मार्क्सवादी सिद्धान्त । सावयविक सिद्धान्त ।

Unit 2: State and its essential elements. Various theories of the origin of the State, Marxist theory. Organismic Theory.

इकाई 3 : सम्प्रभुता एवं उसकी बहुलवादी आलोचना । अधिकार अर्थ, प्रकार, सिद्धान्त । कर्तव्य । स्वतन्त्रता : अर्थ, प्रकार, संरक्षण । समानता : अर्थ, प्रकार एवं स्वतन्त्रता से सम्बंध । प्रजातन्त्र : परिभाषा, व्यापक अर्थ, चुनौतियां, सफलता के लिए आवश्यक शर्तें, गुण-दोष । प्रत्यक्ष प्रजातन्त्र ।

Unit 3: Sovereignty and its pluralistic criticism. Rights: meaning, kinds and theories. Duties. Liberty: meaning, kinds, safeguards. Equality: meaning, kinds and relations with Liberty. Democracy: meaning, comprehensive meaning, challenges, conditions for its success, merits and demerits. Direct Democracy.

इकाई 4 : शासन के प्रकार : एकात्मक व संघात्मक, संसदीय व अध्यक्षीय, निरंकुशतन्त्र । शासन के अंग : कार्यपालिका, व्यवस्थापिका, न्यायपालिका । शक्ति पृथक्करण का सिद्धान्त व नियंत्रण -संतुलन का सिद्धान्त । संविधान : अर्थ, प्रकार । प्रतिनिधित्व के सिद्धान्त एवं निर्वाचन प्रणालियां ।

Unit 4: Kinds of Government: Unitary and Federal, Parliamentary and Presidential. Dictatorship. Organs of Government: Executive, Legislature and Judiciary. Theory of Separation of Powers and Checks and Balances. Constitution: meaning and kinds. Theories of representation and Electoral Process.

इकाई 5 : लोककल्याणकारी राज्य । दल पद्धति : अर्थ, प्रकार, पद्धति । दबाव समूह : अर्थ, प्रकार, तकनीक । सामाजिक परिवर्तन : अर्थ, विशेषताएं, सिद्धान्त । नारीवाद, राष्ट्रवाद ।

Unit 5: Public Welfare State. Party System : meaning, kinds, process. Pressure Groups : meaning, kinds and technique. Social Change: meaning, characteristics, theories. Feminis. Nationalism.

### राजनीतिक सिद्धान्त

1. ओ.पी. गाबा, समकालीन राजनीतिक सिद्धान्त, मयूर पेपर बैक्स नोएडा ।
2. ओ.पी. गाबा, राजनीति सिद्धान्त की रूपरेखा, मयूर पेपर बैक्स नोएडा ।
3. जे.सी. जौहरी व सीमा जौहरी, आधुनिक राजनीति विज्ञान के सिद्धान्त, स्टर्लिंग पब्लिकेशन ।
4. पंत गुप्ता जैन, राजनीति शास्त्र के आधार, सेन्ट्रल पब्लिकेशिंग हाऊस इलाहाबाद ।
5. प्रो. आनंद प्रकाश अवस्थी, भारतीय शासन एवं राजनीति, लक्ष्मीनारायण अग्रवाल, आगरा ।

6 O.P. Gaba An Introduction to Political Theory, Macmillan India Ltd.

7. Andrew Haywood Political Theory, An Introduction

Note - Unit 4, Change in sub topic in all units both papers.



**बी.ए. बी.एड. - भाग एक**

**राजनीति विज्ञान Political Science**

**द्वितीय प्रश्न पत्र : भारतीय शासन एवं राजनीति Paper II : Indian Government and Politics**

अंक - 75

इकाई 1 : भारतीय राष्ट्रीय आन्दोलन : 1858 का प्रथम स्वतन्त्रता संग्राम, असहयोग आन्दोलन, सविनय अवज्ञा आन्दोलन, भारत छोड़ो आन्दोलन । भारत का संविधानिक विकास : 1858, 1909, 1919 और 1935 का भारत शासन अधिनियम ।

Unit 1 : Indian National Movement: First Independence Movement 1858, Non cooperation Movement, Civil Disobedience Movement and Quit India Movement. Constitutional Development of India : Govt. of India Act of 1858, 1909, 1919 and 1935.

इकाई 2 : भारतीय संविधान : विशेषताएं, प्रस्तावना, स्रोत, । संघीय व्यवस्था, मौलिक अधिकार, मूल कर्तव्य, नीति निर्देशक तत्व । संविधान संशोधन प्रक्रिया ।

Unit 2 : Constitution of India: Characteristics, Preamble, Sources. Federal System. Fundamental Rights and Duties, Directive Principles of State Policy. Constitution Amendment Process.

इकाई 3 : संघीय कार्यपालिका : राष्ट्रपति, उपराष्ट्रपति, मन्त्रिपरिषद् और प्रधानमंत्री । संघीय व्यवस्थापिका : संसद : लोकसभा और राज्यसभा । संसदीय प्रक्रिया ।

Unit 3 : Union Executive : President, Vice President, Council of Ministers and Prime Minister. Union Legislature: Parliament: Lok Sabha and Rajya Sabha. Parliamentary Procedure.

इकाई 4 : संघीय न्यायपालिका : सर्वोच्च न्यायालय : गठन, क्षेत्राधिकार, न्यायिक पुनरावलोकन, न्यायिक सक्रियतावाद । राज्य कार्यपालिका : राज्यपाल, मन्त्रिपरिषद् और मुख्यमंत्री ।

Unit 4: Union Judiciary: Supreme Court: Organisation, Jurisdiction, Judicial Review, Judicial Activism. State Executive: Governor, Council of Ministers and Chief Minister.

इकाई 5 : राज्य व्यवस्थापिका : विधानसभा एवं विधानपरिषद् । निर्वाचन आयोग व चुनाव सुधार । राष्ट्रीय व क्षेत्रीय दल । भारतीय राजनीति के प्रमुख मुद्दे : जाति, धर्म, भाषा और क्षेत्र । पंचायती राज व्यवस्था ।

Unit 5: State Legislature: Legislative Assembly and Legislative Council. Election Commission and Election Reforms. National and Regional Parties. Major issues of Indian Politics: Caste, Religion, Language and Region. Panchayati Raj System.

संदर्भ पुस्तक (Reference Books)

8. डॉ. सुभाष कश्यप, भारत का संविधानिक विकास और संविधान, हिन्दी माध्यम कार्यान्वयन निदेशालय दिल्ली विश्वविद्यालय ।

डॉ. सुभाष कश्यप, हमारी संसद, भारत की संसद एक परिचय, राष्ट्रीय पुस्तक न्यास ।

10. डॉ. रूपा मंगलानी, भारतीय शासन एवं राजनीति, राजस्थान हिन्दी ग्रंथ अकादमी जयपुर ।

11- M.V. Pylee, Constitutional History of India, S.Chand.

12- D.D. Basu Indian Constitution

13/11/19

Shubham

15/11/2020

Kashyap



# पाठ्यक्रम

बी. ए. द्वितीय वर्ष (राजनीति विज्ञान)

प्रथम प्रश्न-पत्र

## राजनीतिक चिन्तन

(POLITICAL THOUGHT)

- इकाई I : प्लेटो : आदर्श राज्य—न्याय, शिक्षा, साम्यवाद, दार्शनिक शासक।  
अरस्तू : राज्य, दास प्रथा, नागरिकता, क्रान्ति।  
Plato : Ideal State : Justice, Education, Communism, Philosopher King.  
Aristotle : State, Slavery, Citizenship, Revolution.
- इकाई II : मैकियावेली : युग का शिशु, धर्म व नैतिकता, राजा के कर्तव्य और आचरण।  
हॉब्स : सामाजिक समझौता सिद्धान्त—लेवियाथन। लॉक : सामाजिक समझौता सिद्धान्त।  
रूसो : सामाजिक समझौता सिद्धान्त, सामान्य इच्छा।  
Machiavelli : Child of his times, Religion and Morality, Duties and Conduct of King.  
Hobbes : Social Contract Theory : Leviathan. Locke : Social Contract Theory.  
Rousseau : Social Contract Theory and General Will.
- इकाई III : बेन्थम : उपयोगितावाद। मिल : उपयोगितावाद में संशोधन, स्वतन्त्रता और प्रतिनिधि शासन।  
ग्रीन : राजनीतिक विचार। मार्क्स : राजनीतिक विचार।  
Bentham : Utilitarianism. Mill : Amendment in Utilitarianism. Liberalism and Representative Government.  
Green : Political Thoughts. Marx : Political Thoughts.
- इकाई IV : आदर्शवाद, व्यक्तिवाद, उदारवाद, समाजवाद, फासीवाद : विशेषताएं और आलोचना।  
Idealism, Individualism, Liberalism, Socialism, Facism : Features and Criticism.
- इकाई V : मनु और कौटिल्य : सप्तांग सिद्धान्त, राजा और राजपद, प्रशासकीय व्यवस्था, राज्यमण्डल।  
गांधी : सत्य, अहिंसा, सत्संग्रह एवं राजनीतिक विचार। अम्बेडकर : राजनीतिक विचार।  
सामाजिक विचार दीनदयाल उपाध्याय : एकात्ममानववाद।  
Manu and Kautilya : Saptang Theory, King and Kingship, Administrative System, Rajyamandal.  
Gandhi : Truth, Non violence, Satyagrah and Political Thoughts.  
Ambedkar : Political and Social thoughts.  
Deen Dayal Upadhyay : Akatmamanavvad.

## पाठ्यक्रम

बी. ए. द्वितीय वर्ष (राजनीति विज्ञान)

द्वितीय प्रश्न-पत्र

### तुलनात्मक शासन एवं राजनीति

(COMPARATIVE GOVERNMENT AND POLITICS)

- इकाई I :** ब्रिटिश संविधान : विकास, विशेषताएं, कार्यपालिका, व्यवस्थापिका, न्यायपालिका।  
British Constitution : Evolution, Salient Features, Executive, Legislature and Judiciary.
- इकाई II :** संयुक्त राज्य अमेरिका का संविधान : विशेषताएं, कार्यपालिका, व्यवस्थापिका, न्यायपालिका, शक्ति पृथक्करण व नियंत्रण संतुलन का सिद्धान्त।  
Constitution of United States of America : Salient Features, Executive, Legislature and Judiciary. Theory of Separation of Powers and checks and balances.
- इकाई III :** स्विटजरलैण्ड का संविधान : विशेषताएं, कार्यपालिका, व्यवस्थापिका, न्यायपालिका, प्रत्यक्ष प्रजातन्त्र।  
Constitution of Switzerland : Salient Features, Executive, Legislature and Judiciary. Direct Democracy.
- इकाई IV :** चीन का संविधान : विशेषताएं, कार्यपालिका, व्यवस्थापिका, न्यायपालिका, साम्यवादी दल।  
Constitution of China : Salient Features, Executive, Legislature and Judiciary. Communist Party.
- इकाई V :** तुलनात्मक राजनीति : अर्थ, परिभाषा। ईस्टन का व्यवस्था सिद्धान्त, आमण्ड का संरचनात्मक-प्रकारात्मक उपागम। राजनीतिक विकास, राजनीतिक सामाजीकरण, राजनीतिक संस्कृति की अवधारणा।  
Comparative Politics : Meaning, Definition. System Theory of David Easton, Structural-functional Approach of Almond. Concept of Political Development, Political Socialisation, Political Culture.



# NEW SYLLABUS

बी.ए. भाग-III

## राजनीति विज्ञान

**प्रथम प्रश्न-पत्र : अन्तर्राष्ट्रीय राजनीति एवं भारत की विदेश नीति**

(Paper I : International Politics and Foreign Policy of India)

- इकाई-1 : अन्तर्राष्ट्रीय राजनीति अर्थ, प्रकृति, क्षेत्र : अन्तर्राष्ट्रीय राजनीति अध्ययन उपागम : यथार्थवाद, आदर्शवाद, नव-यथार्थवाद, विश्व व्यवस्था सिद्धान्त, राष्ट्रीय हित एवं राष्ट्रीय शक्ति : अर्थ, परिभाषा एवं तत्व।
- इकाई-2 : अन्तर्राष्ट्रीय राजनीति के विभिन्न सिद्धान्त व्यवस्था खेल निर्णय निर्माण, सौदेबाजी का सिद्धान्त शक्ति सन्तुलन। सामूहिक सुरक्षा निशस्त्रीकरण। शीतयुद्ध। राजनय।
- इकाई-3 : भारत की विदेश नीति निर्धारक तत्व विशेषताएं, घुटनिरपेक्षता अर्थ, विशेषताएं प्रासंगिकता।
- इकाई-4 : भारत का पड़ोसियों से सम्बन्ध : चीन, पाकिस्तान, नेपाल, श्रीलंका। भारत का महाशक्तियों से सम्बन्ध : संयुक्त राज्य अमेरिका, रूस, ब्रिटेन एवं फ्रांस।
- इकाई-5 : अन्तर्राष्ट्रीय राजनीति के कुछ मुद्दे : पर्यावरणवाद, अन्तर्राष्ट्रीय आतंकवाद, वैश्वीकरण, मानव अधिकार, परमाणविक निशस्त्रीकरण।

**द्वितीय प्रश्न-पत्र : लोक प्रशासन**

(Paper II : Public Administration)

- इकाई-1 : लोक प्रशासन अर्थ, परिभाषा, प्रकृति, क्षेत्र। लोक प्रशासन और निजी प्रशासन। अध्ययन पद्धतियां। नवीन लोक प्रशासन। तुलनात्मक लोक प्रशासन।
- इकाई-2 : संगठन के सिद्धान्त : पदसोपान, नियन्त्रण का क्षेत्र, आदेश की एकता, प्रत्यायोजन। मुख्य कार्यपालिका। सूत्र एवं स्टाफ अधिकारण। विभागीय संगठन, लोक निगम। कार्मिक प्रशासन : भर्ती, पदोन्नति, प्रशिक्षण।
- इकाई-3 : विकास प्रशासन प्रकृति, मुद्दे और विशेषताएं, रिग्स मॉडल। प्रशासन में नागरिक सहभागिता। सुशासन और ई-शासन संघ लोक सेवा आयोग।
- इकाई-4 : वित्तीय प्रशासन : बजट के सिद्धान्त भारत में बजट प्रक्रिया। भारत में प्रशासनिक सुधार। प्रशासन पर कार्यपालिका, विधायी, न्यायिक और जन नियन्त्रण।
- इकाई-5 : प्रशासन में भ्रष्टाचार आम्बुड्समैन, लोकपाल और लोक आयुक्त। वैश्वीकरण एवं उदारीकरण के युग में लोक प्रशासन, उदारीकरण; नौकरशाही; लोक सम्पर्क।

2019-20

New syllabus

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इतिहास

2nd Paper

प्रश्न पत्र - प्रथम

भारत का इतिहास 1761 ई. से 1947 ई. तक

इकाई-1

1. भारत में यूरोपीयनों का आगमन
2. आंग्ल-फ्रांसीसी प्रतिस्पर्धा- कर्नाटक युद्ध
3. ब्रिटिश साम्राज्य का विस्तार - प्लासी एवं बक्सर युद्ध
4. ब्रिटिश साम्राज्य का विस्तार - वेलेजली की सहायक संधि, डलहौजी की हड़प नीति

इकाई-2

1. ब्रिटिश प्रशासनिक सुधार - लार्ड विलियम बेंटिंक
2. लार्ड कर्जन का प्रशासन
3. यूरोपीय वाणिज्यवाद का भारत में प्रभाव-उद्योगों व व्यापार का पतन

इकाई-3

1. विभिन्न सामाजिक वर्ग-कृषक, मजदूर, महिलाएं
2. कृषि का पतन एवं कृषक आंदोलन
3. भूराजस्व व्यवस्थाएं - स्थायी बंदोबस्त, रयतवाड़ी, महालवाड़ी
4. भारतीय पुनर्जागरण-ब्रह्मसमाज, आर्यसमाज
5. मुस्लिम समाज सुधार आंदोलन-अलीगढ़ आंदोलन

इकाई-4

1. रेल यातायात का उद्भव एवं विकास
2. हस्तशिल्प उद्योगों का पतन
3. ईस्ट इंडिया कंपनी का रियासतों से संबंध
4. पाश्चात्य शिक्षा का विकास एवं प्रेस

इकाई-5

1. ब्रिटिश नियंत्रण काल में छत्तीसगढ़ की प्रशासनिक व्यवस्था
2. ब्रिटिश कालीन प्रशासनिक व्यवस्था
3. छत्तीसगढ़ में सामाजिक सुधार-कबीर पंथ एवं सतनाम पंथ
4. छत्तीसगढ़ की जनजातीय संस्कृति

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## इतिहास

### प्रश्न पत्र - द्वितीय

भारत के राष्ट्रीय आन्दोलन का इतिहास 1857 ई. से 1947 ई. तक

इकाई-1

1. राष्ट्रवाद का उदय
2. 1857 ई. की क्रांति : कारण एवं परिणाम
3. भारतीय राष्ट्रीय कांग्रेस की स्थापना - उद्देश्य, उदारवाद, उग्रवाद
4. बंगाल का विभाजन एवं स्वदेशी आंदोलन
5. क्रांतिकारी आंदोलन- प्रथम एवं द्वितीय चरण

इकाई-2

1. भारतीय राजनीति में साम्प्रदायिकता का उदय- मुस्लिम लीग की स्थापना
2. होमरूल आंदोलन
3. लखनऊ समझौता
4. गांधीवादी आंदोलन - असहयोग आंदोलन

इकाई-3

1. सविनय अवज्ञा आंदोलन
2. आदिवासी मजदूर एवं कृषक आंदोलन
3. भारत छोड़ो आंदोलन
4. आजाद हिन्द फौज

इकाई-4

1. भारत का विभाजन एवं स्वतंत्रता
2. रियासतों का विलिनीकरण
3. भारतीय संविधान की प्रमुख विशेषताएं
4. छत्तीसगढ़ में 1857 ई. की क्रांति- नारायणसिंह एवं हनुमानसिंह

इकाई-5

1. बस्तर का मुरिया विद्रोह एवं भूमकाल आंदोलन
2. छत्तीसगढ़ में गांधीवादी आंदोलन
3. छत्तीसगढ़ में रियासतों का विलिनीकरण

### संदर्भ ग्रन्थ सूची:-

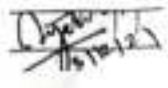
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|---------------------------|---|
| (1) ताराचंद               | - भारतीय स्वाधीनता आंदोलन का इतिहास भाग 1 व 2 |
| (2) सुमित सरकार           | - आधुनिक भारत                                 |
| (3) पं. सुंदरलाल शर्मा    | - भारत में अंग्रेजी राज                       |
| (4) डॉ. आभा सक्सेना       | - इंडियन नेशनल मूवमेंट एंड द लिबरलस           |
| (5) ए.आर. देसाई           | - भारतीय राष्ट्रवाद की सामाजिक पृष्ठभूमि      |
| (6) शर्मा एवं शर्मा       | - भारतीय राष्ट्रीय आंदोलन एवं राजनैतिक विकास  |
| (7) कौलेश्वर राय          | - फ्रीडम स्ट्रगल                              |
| (8) विपिन चन्द्र          | - भारतीय स्वतंत्रता संग्राम का इतिहास         |
| (9) बीरकेश्वर प्रसाद सिंह | - भारतीय राष्ट्रीय आंदोलन एवं संवैधानिक विकास |











## Report

B.Ed. and B.Sc. B.Ed. and B.A. B.Ed. Integrated Curriculum are framed and designed by the Hemchand Yadav Vishwavidyalaya (C.G.) and as being the private unaided college, we do not have the authority to bring any type of changes or corrections in the prescribed syllabus given by the respective university. Institution communicates all the changes There are no changes in B.Ed. and B.Sc. B.Ed. / B.A. B.Ed. IV syllabus. Hemchand Yadav Vishwavidyalaya modified the syllabus in B.Sc. B.Ed. /B.A. B.Ed. in 2019 -2020, B.Sc. B.Ed. II /B.A. B.Ed. II in 2020-2021 and B.Sc. B.Ed. III /B.A. B.Ed. III Year. Session wise Changes in Integrated Course in following Subjects-

### Session: 2019 -2020

#### 1. B.Sc. B.Ed. I

Subject: Physics, Chemistry, Botany and Zoology

#### 2. B.A. B.Ed. I

Subject: Sociology, History and Political Science

### Session: 2020-2021

#### 1. B.Sc. B.Ed. II 2020-2021

Subject: Physics, Chemistry, Botany and Zoology

#### 2. B.A. B.Ed. II 2020-2021

Subject: Sociology, History and Political Science

### Session: 2022-2023

#### 1. B.Sc. B.Ed. II 2020-2021

Subject: Physics, Chemistry, Botany and Zoology

#### 2. B.A. B.Ed. II 2020-2021

Subject: Sociology, History and Political Science

  
Principal  
Sandipani Academy  
Achhoti, Dist. Durg (C.G.)