



CHANDA SHIKSHAN PRASARAK MANDALS

# JANATA MAHAVIDYALAYA, CHANDRAPUR

ARTS, COMMERCE AND SCIENCE (Under Graduate and Post Graduate Course)

NAAC Reaccredited Institution Grade 'B' with 2.67 CGPA



Center for Higher Learning and Research for the Department of Botany and Zoology

संस्थापक व प्रेरणास्थान



शिक्षण महर्षी

मा. स्व. श्रीहरी जिवतोडे गुरुजी  
(माजी आमदार) बी.एस.सी. (कृषी) बी.टी.

मातोश्री

मा. स्व. लिलाबाई श्रीहरी जिवतोडे  
संस्थापक सदस्या



संलग्नता (Affiliation)

वरिष्ठ महाविद्यालय

गोंडवाना विद्यापीठ, गडचिरोली.

कनिष्ठ महाविद्यालय

महाराष्ट्र राज्य माध्यमिक व उच्च माध्यमिक शिक्षण मंडळ,  
नागपूर विभागीय मंडळ, नागपूर.

फोन : चंद्रपूर एस.टी.डी. ०७१७२

कार्यालय : २५१७९४, महाविद्यालय : २७६८५२,

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सचिव : २५०५२४, २५८७२२

कॉम्प्युटर विभाग : २५५६६९



**BROACHER**

**Session : 2014 - 2015**



# Session 2014- 2015

## Faculty of Commerce Under Graduate

### Bachelor of Commerce Courses

Semester I
Compulsory English - I
Marathi / Hindi / Supplementary English (Any One)
Business Economics - I
Principal of Management - I
Financial Accounting - I
Statistics Techniques & Business Mathematics - I
Marketing Management (Basic Marketing Management - I) <b>OR</b> Information Technology (Computer Fundamental - I)

Semester II
Compulsory English - II
Marathi / Hindi / Supplementary English (Any One)
Business Economics - II
Financial Accounting - II
Statistics Techniques & Business Mathematics - II
Marketing Management (Basic Marketing Management - II) <b>OR</b> Information Technology (Information Communication Technology)
Principal of Management - II

Semester III
Compulsory English
Marathi / Hindi / Supplementary English (Any One)
Cost Accounting
Company Law
Monetary Economics Paper - I
Corporate Accounting Paper - I
Marketing Management (Advertising Management) <b>OR</b> Information Technology (Office Automation)

Semester IV
Compulsory English
Marathi / Hindi / Supplementary English (Any One)
Management Accounting
Corporate Accounting Paper - II
Secretarial Practice
Information Technology (Computer Accounting & MIS) <b>OR</b> Marketing Management (Advertising & Sales Marketing)
Monetary Accounting - II

Semester V
Auditing
Indian Economics
Advance Accounting Paper - I
Business Communication Paper - I
Commercial Law
Marketing Management (Industrial Marketing) <b>OR</b> Information Technology (Computer Accounting & MIS)

Semester VI
Income Tax
International Economics
Advance Accounting Paper- II
Business Communication Paper - II
Corporate Law
Marketing Management (Service Marketing) <b>OR</b> Information Technology (Web Designing & Software Maintenance)

**Bachelor of Computer Application**  
**(3 year program)**  
**BCA - Choice Based Credit System**

Semester I	Semester II
1 English(Business Communication) 2 Supplementary English / Hindi/Marathi 3 Information & Communication Technology 4 Programming Tools & Techniques 5 Elective1. DigitalElectronics2.LinearElectronics 6 Practical - I based on Paper 3 7 Practical-II based on Theory Paper- 4 8 Practical-III based on Theory Paper- 5	1 English 2 Supplementary English / Hindi/Marathi 3 Fundamental of 'C' 4 Operating System and Linux 5 Elective 1. Database Management System 2. Management Information System 6 Practical - I based on Paper 3 7 Practical-II based on Theory Paper- 4 8 Practical-III based on Theory Paper-5
Semester III	Semester IV
1 Advance 'C' 2 Computer Networks & Cloud Computing 3 Database Programming with Oracle 4 System Analysis & Design 5 Discrete Mathematics 6 Soft Skill 7 Practical-I based on Theory Paper- 1, 2 8 Practical-II based on Theory Paper- 3,4 9 Seminar 10 Democracy and Good Governance	1 Front End Development using Visual Basics 2 E-Commerce & Web Designing 3 Algorithm and Data Structures 4 Object Oriented Programming using C++ 5 PC Maintenance 6 System Software & Micro Processor 7 Practical-I based on Theory Paper- J, 2 8 Practical-II based on Theory Paper- 3,4 9 Seminar 10 Environmental Science
Semester V	Semester VI
1. (Select Any 2) • Theory of Computational Analyzer • Scripting Languages • Python Programming 2 (Select Any 2) • Data Warehousing and Data Mining • Software Engineering • Operation Research & Statistics 3 (Select Any 2) • CORE JAVA • Computer Graphics • SQL Server 4 (Select Any One) • Computers for manager • A Certification Course from IIT Spoken Tutorial, Mumbai • Personality Development • Accounting & Office Management 5 Practical-I based on Theory Paper- 1 6 Practical-II based on Theory Paper- 3 7 Seminar	1 (Select Any 2) • NET & C#. NET • Computer Forensic Science • Database Administration & Distributed Computing 2 Project 3 (Select Any 2) • Advance JAVA • Computational Linguistics • Image Processing & Analysis • Project Management 4 (Select Any One) Media Management • A Certification Course from MOOC • E- Waste Management • Principle Of Management 5 Practical-I based on Theory Paper-1 6 Practical-II based on Theory Paper- 3 7 Project Based Seminar

## Faculty of Arts Under Graduate

### Bachelor of Arts Courses

Semester I
Compulsory English
Marathi / Hindi (Any One)
Sociology
History
Political Science
English Literature
Marathi Literature
Hindi Literature
Economics
Home Economics
Geography

Semester II
Compulsory English
Marathi / Hindi (Any One)
Sociology
History
Political Science
English Literature
Marathi Literature
Hindi Literature
Economics
Home Economics
Geography

Semester III
Compulsory English
Marathi / Hindi (Any One)
Sociology
History
Political Science
English Literature
Marathi Literature
Hindi Literature
Economics
Home Economics
Geography

Semester IV
Compulsory English
Marathi / Hindi (Any One)
Sociology
History
Political Science
English Literature
Marathi Literature
Hindi Literature
Economics
Home Economics
Geography

Semester V
Compulsory English
Marathi / Hindi (Any One)
Sociology
History
Political Science
English Literature
Marathi Literature
Hindi Literature
Economics
Home Economics
Geography

Semester VI
Compulsory English
Marathi / Hindi (Any One)
Sociology
History
Political Science
English Literature
Marathi Literature
Hindi Literature
Economics
Home Economics
Geography

**Bachelor of Business Administration (3  
year program)  
BBA - Credit Based System**

Semester I	Semester II
1 English (Business Communication) - I	1 English (Business Communication) - II
2 Principle of Management - I	2 Principle of Management - II
3 Financial Accounting -I	3 Financial Accounting -II
4 Business Economics -I	4 Business Economics -II
5 Business Demography and Environmental Studies - I	5 Foundation of Human Skills & Cultural Heritage (Paper III) - II
6 Statistical Methods for Business - I	6 Statistical Methods for Business - II
7 Computer Application for Business - I	7 Computer Application for Business - II

Semester III	Semester IV
1 Financial Management	1 Business Communication Management
2 Human Resource Management - I	2 Human Resource Management - II
3 Principles of Marketing Management - I	3 Principle of Marketing Management -II
4 Production Management	4 Material Management
5 Business Environment Management - I	5 Business Environment Management -II
6 Cost Accounting	6 Management Accounting
7 Business Law	7 Industrial Law

Semester V	Semester VI
1 Service Sector Management - Paper - I	1 Service Sector Management - Paper - II
2 Logistic Management - Paper - I	2 Logistic Management - Paper - II
3 Retail Sale Management - Paper - I	3 Retail Sale Management - Paper - II
4 Entrepreneurship Development - Paper-I	4 Entrepreneurship Development - Paper-II
5 Income Tax	5 Income Tax
6 (Select Any 1)	6 (Select Any 1)
• Financial Management - Paper - I	• Financial Management - Paper - II
• Human Resource Management - Paper - I	• Human Resource Management - Paper - II
• Marketing Management Paper - I	• Marketing Management Paper - II

## Faculty of Science Under Graduate

### Bachelor of Science (Physics) Courses

Semester I
<b>Physics Paper I</b> (Mechanics & Oscillations)
<b>Physics Paper II</b> (Waves, Properties of matter And Kinetic Theory)
Practical I

Semester III
<b>Physics Paper I</b> (Thermodynamics And Acoustics)
<b>Physics Paper II</b> (Optical And Laser)
Practical III

Semester V
<b>Physics Paper I</b> (Statistical Physics & Relativity)
<b>Physics Paper II</b> (X Ray and Solid State Physics)
Practical V

Semester II
<b>Physics Paper I</b> (Electrostatics, Magnetostatics And Semiconductor Device)
<b>Physics Paper II</b> (Electric Currents Motion of Charged Particles in Electric & Magnetic Fields, Electromagnetic Waves.)
Practical II

Semester IV
<b>Physics Paper I</b> (Quantum Mechanics And Molecular Physics)
<b>Physics Paper II</b> (Atomic Physics & Solid State Electronics)
Practical IV

Semester VI
<b>Physics Paper I</b> (Nuclear Physics Nanotechnology And Biophysics)
<b>Physics Paper II</b> (Fibre Optics Communication And Digital Electronics)
Practical VI

### Bachelor of Science (Chemistry) Courses

Semester I
<b>Chemistry Paper I</b> (Inorganic Chemistry)
<b>Chemistry Paper II</b> (Organic Chemistry)
Practical I

Semester III
<b>Chemistry Paper I</b> (Inorganic Chemistry)
<b>Chemistry Paper II</b> (Physical Chemistry)
Practical III

Semester V
<b>Chemistry Paper I</b> (Organic Chemistry)
<b>Chemistry Paper II</b> (Physical Chemistry)
Practical V

Semester II
<b>Chemistry Paper I</b> (Organic Chemistry)
<b>Chemistry Paper II</b> (Physical Chemistry)
Practical II

Semester IV
<b>Chemistry Paper I</b> (Inorganic Chemistry)
<b>Chemistry Paper II</b> (Organic Chemistry)
Practical IV

Semester VI
<b>Chemistry Paper I</b> (Inorganic Chemistry)
<b>Chemistry Paper II</b> (Physical Chemistry)
Practical VI

## Bachelor of Science (Mathematics) Courses

Semester I
<b>Mathematics Paper I</b> (Algebra & Trigonometry)
<b>Mathematics Paper II</b> (Diferential & Intergral Calculus)

Semester III
<b>Mathematics Paper I</b> (Advance Calculus And Group Theory)
<b>Mathematics Paper II</b> (Diferential Equation )

Semester V
<b>Mathematics Paper I</b> (Linear Algebra)
<b>Mathematics Paper II</b> (Special Relativity - I)
<b>Mathematics Paper II</b> (Linear Programming & Transportation Problem)

Semester II
<b>Mathematics Paper I</b> (Vector Calculus, Geometry & Difference Equation)
<b>Mathematics Paper II</b> (Diferential Equations & Analysis )

Semester IV
<b>Mathematics Paper I</b> (Abstract Algebra & Differential Equation)
<b>Mathematics Paper II</b> (Classical Mechanics & Statics )

Semester VI
<b>Mathematics Paper I</b> (Analysis)
<b>Mathematics Paper II</b> (Special Relativity - II)
<b>Mathematics Paper II</b> (Number Theory & Discrete Mathematics)

## Bachelor of Science (Zoology) Courses

Semester I
<b>Zoology Paper I</b> (Life & Diversity of Animals(Protizon - Aneelich))
<b>Zoology Paper II</b> (Environament Biology)
Practical I

Semester III
<b>Zoology Paper I</b> (Life & Diversity of Animals Choradates)
<b>Zoology Paper II</b> (Developmental Biology)
Practical III

Semester V
<b>Zoology Paper I</b> (General Mammalian Physiology - I)
<b>Zoology Paper II</b> (Agriculture & Economics Entamology)
Practical V

Semester II
<b>Zoology Paper I</b> (Life & Diversity of Animals(Arthropoda to Protochordata))
<b>Zoology Paper II</b> (Cell Biology)
Practical II

Semester IV
<b>Zoology Paper I</b> (Animal Behaviour And Evolution)
<b>Zoology Paper II</b> (Genetics & Genetic Engineering)
Practical IV

Semester VI
<b>Zoology Paper I</b> (General Mammalian Physiology - II)
<b>Zoology Paper II</b> (Applied Zoology - II )
Practical VI

## Bachelor of Science (Botany) Courses

Semester I
<b>Botany Paper I</b> (Diversity of Microbes & Algae)
<b>Botany Paper II</b> (Diversity of Fungi, Lichens, Bryophytes & Plant Pathology)
Practical I

Semester III
<b>Botany Paper I</b> (Taxonomy and Diversity of Angiosperms)
<b>Botany Paper II</b> (Reproductive Biology of Angiosperms And Plant Resources)
Practical III

Semester V
<b>Botany Paper I</b> (Plant Physiology And Biochemistry)
<b>Botany Paper II</b> (Plant Ecology)
Practical V

Semester II
<b>Botany Paper I</b> (Pteridophyta Palaeobotany and Gymnosperms)
<b>Botany Paper II</b> (Angiosperm morphology and Anatomy)
Practical II

Semester IV
<b>Botany Paper I</b> (Cell Biology, Genetics And Plant Breeding)
<b>Botany Paper II</b> (Molecular Biology And Biotechnology)
Practical IV

Semester VI
<b>Botany Paper I</b> (Plant Physiology, Growth And Development)
<b>Botany Paper II</b> (Ethnobotany & Applied Botany)
Practical IV

## Bachelor of Science (Microbiology) Courses

Semester I
<b>Microbiology Paper I</b> (General Microbiology)
<b>Microbiology Paper II</b> (Microscopy & Microbial Techniques)
Practical I

Semester III
<b>Microbiology Paper I</b> (Enzymology And Metabolism)
<b>Microbiology Paper II</b> (Industrial And Food Microbiology)
Practical III

Semester V
<b>Microbiology Paper I</b> (Medical Microbiology)
<b>Microbiology Paper II</b> (Bioinstrumentation)
Practical V

Semester II
<b>Microbiology Paper I</b> (Microbial Chemistry & Physiology)
<b>Microbiology Paper II</b> (Microbial Taxonomy, Ecology and Diversity)
Practical II

Semester IV
<b>Microbiology Paper I</b> (Microbial Genetics)
<b>Microbiology Paper II</b> (Applied Microbiology)
Practical IV

Semester VI
<b>Microbiology Paper I</b> (Recombinant DNA Technology)
<b>Microbiology Paper II</b> (Immunology)
Practical VI



### Bachelor of Science (Biotechnology) Courses

Semester I
<b>Biotechnology Paper I</b> (Cell & Cell Organelles)
<b>Biotechnology Paper II</b> (General Microbiology)
Practical I

Semester III
<b>Biotechnology Paper I</b> (Cell Metabolism)
<b>Biotechnology Paper II</b> (Molecular Biology And Enzymology)
Practical III

Semester V
<b>Biotechnology Paper I</b> (Genetic Engineering)
<b>Biotechnology Paper II</b> (Plant Biotechnology)
Practical V

Semester II
<b>Biotechnology Paper I</b> (Biochemistry)
<b>Biotechnology Paper II</b> (Genetics)
Practical I

Semester IV
<b>Biotechnology Paper I</b> (Biophysical Techniques)
<b>Biotechnology Paper II</b> (Immunology And Biostatistics)
Practical IV

Semester VI
<b>Biotechnology Paper I</b> (Environment Biotechnology)
<b>Biotechnology Paper II</b> (Animal Biotechnology)
Practical VI

### Bachelor of Science (Computer Science) Courses

Semester I
<b>Computer Science Paper I</b> (Information And Communication Technology)
<b>Computer Science Paper II</b> (Programming Logic And Techniques)
Practical I

Semester III
<b>Computer Science Paper I</b> (Database Management & MS Access)
<b>Computer Science Paper II</b> (Object Oriented Programming With C++)
Practical III

Semester V
<b>Computer Science Paper I</b> (System Analysis And Project Management)
<b>Computer Science Paper II</b> (Database Programming With Oracle)
Practical V

Semester II
<b>Computer Science Paper I</b> (Operating System)
<b>Computer Science Paper II</b> (Structured Programming With C)
Practical II

Semester IV
<b>Computer Science Paper I</b> (Data Structure)
<b>Computer Science Paper II</b> (Event Driven Programming With Visual Basic)
Practical IV

Semester VI
<b>Computer Science Paper I</b> (E Commerce And HTML)
<b>Computer Science Paper II</b> (VB. Net)
<b>Computer Science Paper II</b> (Data Communication With Cloud Computing Basics)
<b>Computer Science Paper II</b> (JAVA)
Practical VI

## Bachelor of Science (Fishery) Courses

Semester I
<b>Industrial Fish &amp; Fisheries Paper I</b> (Fish Biology Anatomy And Fish Feeding)
<b>Industrial Fish &amp; Fisheries Paper II</b> (Capture Fisheries)
Practical I
Semester III
<b>Industrial Fish &amp; Fisheries Paper I</b> (Principal of Aquaculture)
<b>Industrial Fish &amp; Fisheries Paper II</b> (Fish Breeding Technology & Genetics)
Practical III
Semester V
<b>Industrial Fish &amp; Fisheries Paper I</b> (Culture & Maintenance of Aquarium Fishes)
<b>Industrial Fish &amp; Fisheries Paper II</b> (Fish Pathology & Host Harvest Technology)
Practical V

Semester II
<b>Industrial Fish &amp; Fisheries Paper I</b> (Fish Biology , Fish Feeding And Breeding)
<b>Industrial Fish &amp; Fisheries Paper II</b> (Pelagie Fisheries)
Practical II
Semester IV
<b>Industrial Fish &amp; Fisheries Paper I</b> (Fresh Water Aquaculture)
<b>Industrial Fish &amp; Fisheries Paper II</b> (Marine Water Aquaculture)
Practical IV
Semester VI
<b>Industrial Fish &amp; Fisheries Paper I</b> (Culture And Breeding of Aquarium Fishes)
<b>Industrial Fish &amp; Fisheries Paper II</b> (Fisheries Economics And Extenstion Education)
Practical VI

## Bachelor of Science (Electronics) Courses

Semester I
<b>Electronics Paper I</b> (Basic Electronics & Semiconductor Devices)
<b>Electronics Paper II</b> (Transducers & NetWork Theorems)
Practical I
Practical II

Semester III
<b>Electronics Paper I</b> (Amplifiers)
<b>Electronics Paper II</b> (Digital Electronics)
Practical V
Practical VI

Semester V
<b>Electronics Paper I</b> (Electronics Instrumentation & Communication)
<b>Electronics Paper II</b> (C Programming)
Practical V
Practical VI

Semester II
<b>Electronics Paper I</b> (Digital Electronics & Computer Fundamentals)
<b>Electronics Paper II</b> (Measuring Devices)
Practical III
Practical IV

Semester IV
<b>Electronics Paper I</b> (Power Amplifiers Oscillators & Power Supplies) Theory UA
<b>Electronics Paper II</b> (Digital Electronics)
Practical III
Practical IV

Semester IV
<b>Electronics Paper I</b> (Microprocessor Interfac-ing And Microcontrollers)
<b>Electronics Paper II</b> (C Programming)
Practical III
Practical IV

# Session 2014- 2015

## Master of Commerce

### Master of Commerce -

Semester I
Advance Financial Accounting
Indian Financial System
Managerial Economics
Marketing Management

Semester II
Research Methodology
Advance Cost Accounting
Co-operation & Rural Development
Human Resouce Management

Semester III
Statistical Techniques
Tax Procedure & Practics
Computer Application in Commerce
Service Sector Management - Elective

Semester IV
Advance Management Accounting
International Business Environment
Enterepreneurial Development
Project and Seminar

## Master of Arts

### Master of Arts Economics -

Semester I
Micro Economics Analysis - I
Macro Economics Analysis - I
Agriculture Economics - I (Elective)
Statistics For Economics - I (Elective)
History of Economics Thought (Elective)
Econometrics - I (Elective)
Public Economics (Elective)

Semester II
Micro Economics - II
Macro Economics Analysis - II
Agriculture Economics - II (Elective)
Statistics For Economics - II (Elective)
Industrial Economics (Elective)
Environmental Economics (Elective)
Econometrics - II (Elective)

Semester III
Economics of Growth & Development - I
International Trade & Finance - I
Indian Economics Policy - I (Elective)
Research Methodology - I
Financial Institute & Markets - I (Elective)
Labour Economics (Elective)

Semester IV
Economics of Growth & Development - II
International Trade & Finance - II
Research Methodology - II (Elective)
Indian Economics Policy - II (Elective)
Financial Institute & Markets - II (Elective)
Rural Development (Elective)

### Master of Arts English -

Semester I
Chaucer to Milton (A)
Restoration & Augustan Age
Romantic Age (A)
Victorian Age

Semester II
Chaucer to Milton (B)
Romantic Age (B)
Modern Age (A)
Post Modern Age

Semester III
History of English Language- I
Literary Criticism up to T S Eliot
Indian Writing in English (A)
American Literature

Semester IV
Contemporary Literary Criticism And Theory
Structure of Modern English
Indian Writing in English (B)
Teaching of English Language & Literature



## Master of Science

### Master of Science Physics -

Semester I
Mathematical Physics
Classical Mechanics
Solid State Statistical Physics
Electrodynamics - I
Practical 1 & 2
Seminar

Semester II
Quantum Mechanics - I
Statistical Physics
Numerical Methods
Electrodynamics - II
Practical 3 & 4
Seminar

Semester III
Quantum Mechanics - II
Nuclear & Particle Physics - I
Material Science - I (Elective)
Atomic & Molecular Physics (Spectroscopy) - I (Elective)
Applied Electronics - I (Elective)
X-Rays - I (Elective)
Nanoscience & Nanotechnology - I (Elective)
X-Ray (Elective)
Material Science (Elective)
Numerical Methods & Programming (Elective)
Spectroscopy Elective & I (Elective)
Laser Fibre Optics & Application Elective I
Digital Electronics & Microprocessor (Elective)
Practical 5 & 6
Seminar

Semester IV
Solid State Physics - II
Nuclear & Particle Physics - II
Material Science - II (Elective)
Atomic & Molecular Physics - II (Elective)
Applied Electronics - II (Elective)
X-Rays - II (Elective)
Nanoscience & Nanotechnology - II (Elective)
Nanoscience (Elective)
Non Linear Dynamics with Application to Physics & Other Sciences (Elective)
Condensed Matter Physics (Elective)
Electroacoustics (Elective)
Spectroscopy Elective & II
Laser Fibre Optics & Application Elective II
Practical 7
Practical 8 Project
Seminar

### Master of Science Chemistry -

Semester I
Inorganic Chemistry
Organic Chemistry
Physical Chemistry
Analytical Chemistry
Inorganic Practical - I
Organic Practical - II
Seminar

Semester III
Spectroscopy
Organic Special Chemistry - I
Organic Special Chemistry - II
Polymer
Practical - V Special Organic
Practical - IV
Seminar

Semester II
Inorganic Chemistry
Organic Chemistry
Physical Chemistry
Analytical Chemistry
Physical Practical - I
Analytical Practical - II
Seminar

Semester IV
Spectroscopy
Organic Special Chemistry - I
Organic Special Chemistry - II
Polymer
Practical - VI
Project
Seminar

### Master of Science Zoology -

Semester I
Animal Structure & Function of Invertebrates
General Physiology
Cell Biology & Genetics
Reproductive Biology
Practical - I
Practical - II
Seminar

Semester III
Parasitology
Immunology
Entomology - I
Fish & Fisheries (Paper - I)
Aquaculture (Paper - I)
Environmental Biology (Paper - I)
Entomology (Paper -II)
Fish & Fisheries (Paper - II)
Aquaculture (Paper - II)
Environmental Biology (Paper - II)
Practical - I
Practical - II
Seminar

Semester II
Structure & Function of Vertebrates
General & Comparative Endocrinology
Molecular Biology & Biotechnology
Advance Developmental Biology
Practical - I
Practical - II
Seminar

Semester IV
Biotechnique Biostatistics Ethology
Toxicology & Bioinformatics
Entomology - III (Special Group)
Fish & Fisheries - III (Special Group)
Aquaculture- III(Aquaculture &Management) (Elective)
Environmental Biology - III (Environmental Pollution & Aquaculture)(Elective)
<del>Entomology - IV (Pest Control Measures &amp; insects Vectros)(Elective)</del>
Fish & Fisheries - IV (Fishery Technology & Fish Pathology)(Elective)
Aquaculture - IV (FishPathology&FishGenetics)(Elective)
Environmental Biology - IV (Man&Environment) (Elective)
Practical - I
Practical - II (Project)
Seminar

### Master of Science Botany -

Semester I
Microbiology Algae & Fungi
Bryophytes & Pteridophytes
Gymnosperms & Paleobotany
Cytology & Genetics
Practical - I
Practical- II
Seminar

Semester II
Plant Physiology & Biochemistry
Plant Development & Reproduction
Cell & Molecular Biology - I
Angiosperms - I
Practical - I
Practical - II
Seminar

Semester III
Plant Ecology
Cell & Molecular Biology - II
Plant Biotechnology
Angiosperms - II
Practical - V
Practical - VI
Seminar

Semester IV
Plant Conservation, IPR & Ethnobotany
Plant Resource Utilization, Bioethics, Biosafety Plant Breeding & Biostatistics
Specialization I - Reproductive Biology of Angiosperm
Specialization II - Reproductive Biology of Angiosperm
Practical - VII
Practical - VIII (Project)
Seminar

### Master of Science Microbiology -

Semester I
Microbial Diversity & Evolution
Microbial Physiology & Metabolism
Enzymology & Techniques
Commercial Microbiology
Practical - 1
Practical - 2

Semester II
Advance Techniques in Microbiology
Membrane Structure & Signal Transduction
Microbial Methods For Environmental Management
Nanomicrobiology
Practical - 3
Practical - 4

Semester III
Genetics & Molecular Biology
Recombinant DNA Technology
Bioprocess Technology
Food Microbiology & Food Safety
Practical - 5
Practical - 6

Semester IV
Medical Microbiology & Parasitology
Virology
Immunology
Biostatistics & Bioinformatics
Practical - 7
Practical - 8

## Master of Science Computer Science -

Semester I
Advance Java
Discrete Mathematics
Data Warehousing & SQL
Scripting Language & Information Retrieval
Practical - I
Practical - II

Semester II
Theory of Computation & System Programming
VB.Net
Web Technologies
Software Engineering
Practical - I
Practical - II

Semester III
Software Testing Tools & Methodology
Soft Computing Techniques
Research Methodology & Operational Technique
C#. NET
Practical - I
Practical - II

Semester IV
Android Application Development
Digital & Cyber Forensics
ASP. NET Usinf C#.NET
Neural Network
Cyber Security
Practical - I
Practical - II (Project)





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## प्राचार्य डॉ. अशोक जिवतोडे : एक प्रगल्भ नेतृत्व

(सचिव - चांदा शिक्षण प्रसारक मंडळ, चंद्रपूर)

पुर्व विदर्भातील गोंडवन, आदिवासी, दुर्गम भागातील शैक्षणिक क्रांतीचे जनक शिक्षणमहर्षी स्व. श्रीहरी जिवतोडे गुरुजींचे चिरंजीव तथा चांदा शिक्षण प्रसारक मंडळ, चंद्रपूरचे विद्यमान सचिव प्राचार्य डॉ. अशोक श्रीहरी जिवतोडे यांचा सामाजिक व शैक्षणिक वातावरण असणाऱ्या कुटूंबात ११ जून १९६१ ला जन्म झाला. प्राथमिक ते उच्च शिक्षणापर्यंतचे शिक्षण उच्च श्रेणीत प्रावीण्यासह उत्तीर्ण. एम.कॉम, एम.ए (अर्थशास्त्र), एम.एड. एम.फिल., पी.एच.डी. (शिक्षण) पदवीने विभूषित बी.एड. च्या परीक्षेत 'श्रीमती साळूबाई विश्वनाथजी खांडरे' सुवर्ण पदकाने सन्मानित. आंतरराष्ट्रीय शिक्षण संशोधन :- जोमीटन थायलंड येथे "Indian Economic Policy in the Context of Global Challenge" या विषयावर भरलेल्या आंतरराष्ट्रीय शिक्षण परिषदेत शोध-निबंध सादर.

- I.A.T.E. उस्मानिया विद्यापीठ हैद्राबाद येथे "Information Communication Tech. and Teacher Education" या विषयावर शोध-निबंध सादर.
- राष्ट्रसंत तुकडोजी महाराज जन्मशताब्दीनिमित्ताने विद्यापीठाद्वारे आयोजित 'राष्ट्रसंत तुकडोजी महाराज व ग्रामोत्थान' या राज्यस्तरीय घर्घासत्रात व्याख्यान.
- आंतरराष्ट्रीय शिक्षण परिषदेत शोध-निबंध सादर करण्यासाठी थायलंड व सिंगापूर येथे झालेल्या शिक्षण परिषदेत भारताचे प्रतिनिधी म्हणून सहभाग.

गोंडवाना विद्यापीठ विद्वत् समिती सदस्य, मार्गदर्शक तथा शिक्षण शास्त्राचे अधिष्ठाता तसेच राष्ट्रसंत तुकडोजी महाराज नागपूर विद्यापीठ, नागपूरच्या विविध समित्यांवर मार्गदर्शक सदस्य म्हणून कार्यरत, आचार्य पदवीचे मार्गदर्शक, अध्यक्ष अभ्यासमंडळ (शिक्षणशास्त्र) राष्ट्रसंत तुकडोजी महाराज नागपूर विद्यापीठ, नागपूर.

**शिक्षण प्रसारक :** शिक्षण महर्षी स्व. जिवतोडे गुरुजींनी १९५३ मध्ये स्थापन केलेल्या विदर्भातील अग्रगण्य चांदा शिक्षण प्रसारक मंडळ, चंद्रपूरचे विद्यमान सचिव म्हणून कार्यरत असून आज संस्थेद्वारे १६ विद्यालये, ६ कनिष्ठ महाविद्यालये, ६ एम.सी.व्ही.सी. कनिष्ठ महाविद्यालये, दोन अध्यापक महाविद्यालये आणि तीन वरिष्ठ महाविद्यालयांसह १४ जनता कॉन्व्हेंट स्कूल, जनता कॉरिअर लॉन्चर तसेच विद्यार्थी व विद्यार्थिनींसाठी वसतिगृह अशा प्रकारे या शैक्षणिक संस्थेद्वारे गत ६० वर्षांपासून शिक्षण प्रसाराचे कार्य अविरोधपणे सुरू आहे.

चंद्रपूर जिल्ह्यातील विद्यार्थ्यांना आंतरराष्ट्रीय दर्जाचे शिक्षण प्राप्त व्हावे म्हणून बच्चेष्ण पॅटर्नची आंतरराष्ट्रीय दर्जाची चांदा पब्लिक स्कूलची निर्मिती.

ग्रामीण भागातील विद्यार्थ्यांसाठी नागपूर जिल्ह्यातील सावनेर येथे C.B.S.E. पॅटर्नची आंतरराष्ट्रीय दर्जाचे तसेच State. पॅटर्नची सावनेर पब्लिक स्कूलची निर्मिती.

महाविद्यालयीन विद्यार्थ्यांसाठी एम.पी.एस.सी., यु.पी.एस.सी., बँक परीक्षा, रेल्वे परीक्षा तसेच ११/१२ वी च्या विद्यार्थ्यांना इंजीनिअरींग/मेडीकलच्या ISEET/NEET/AIEEE आदी स्पर्धात्मक परीक्षेकरिता जनता करीअर लॉन्चरची निर्मिती. या संस्थेला ISO 9001-2008 हे प्रमाणपत्र प्राप्त तसे विद्यार्थ्यांना निवासाची (Hostel) सुविधा उपलब्ध.

आत्महत्याग्रस्त शेतकरी, नक्षलग्रस्त शहीद, प्रोजेक्टमुळे विस्थापित झालेल्याची मुले तसेच अत्यंत गरीब माणसांच्या एकूण १३५८ मुलां-मुलींची परीक्षा फी व इतर शैक्षणिक खर्च संस्थेद्वारा उचलल्या जातो. संस्थेच्या सर्व शाळांना उपलब्ध असलेल्या बसेसमधून सर्व विद्यार्थी व विद्यार्थिनींना शाळेत ने-आण करण्यासाठी मोफत बसेसेवा.

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- अखिल महाराष्ट्र पत्रकार व पत्रलेख संघ मुंबईचा 'राष्ट्रीय एकात्मक फेलोशिप पुरस्कार.
- पर्यावरण संवर्धन व विकास समिती चंद्रपूरतर्फे पर्यावरण पुरस्कार
- National and International Compendium New Delhi 'EMINENT EDUCATIONALIST AWARD'
- 'Life Insurance of India' च्या वतीने सामाजिक पुरस्कार
- धनोजे कुणबी समाज चंद्रपूरतर्फे 'समाजभूषण' पुरस्काराने गौरवान्वित.

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प्रकारक : प्राचार्य, जनता महाविद्यालय, चंद्रपूर, मुद्रक : ज्योती प्रिन्स, चंद्रपूर फोन : २५७१९६