

Dnyandeep Shikshan Prasarak Mandal, Khed (Ratnagiri)'s

# **Dnyandeep College of Science and Commerce, Morvande – Boraj**

NAAC Accredited "B" Grade



NAAC Cycle 2

**Criterion 1 – Curricular Aspects** 

1.3 Curriculum Enrichment

1.3.1. Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

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1. Syllabus copies of the courses that include crosscutting issues relevant to Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

## Revised Syllabus of Courses of B.Com. Programme at Semester I with Effect from the Academic Year 2016-2017

## Ability Enhancement Courses (AEC)

## 5. Environmental Studies I

Sr.	Modules	No. of
No.		Lectures
1	Environment and Ecosystem	13
2	Natural Resources and Sustainable Development	13
3	Populations and Emerging Issues of Development	13
4	Urbanisation and Environment	13
5	Reading of Thematic Maps and Map Filling	08
	Total	60

Sr. No.	Modules / Units
1	Environment and Ecosystem
	Environment: Meaning, definition, scope and its components; concept of an ecosystem: definition, Characteristics, components and types, functioning and structure; Food Chain and Food Web- Ecological Pyramids - Man and environment relationship; Importance and scope of Environmental Studies.
2	Natural Resources and Sustainable Development
	Meaning and definitions; Classification and types of resources, factors influencing resource; Resource conservation- meaning and methods- I and non-conventional resources, problems associated with and management of water, forest and energy resources- resource utilization and sustainable development
3	Populations and Emerging Issues of Development
	Population explosion in the world and in India and arising concerns- Demographic Transition Theory - pattern of population growth in the world and in India and associated problems - Measures taken to control population growth in India; Human population and environement- Environment and Human Health – Human Development Index – The World Happiness Index
4	Urbanisation and Environment
	Concept of Urbanisation— Problems of migration and urban environment-changing landuse, crowding and stress on urban resources, degradation of air and water, loss of soil cover impact on biodiversity, Urban heat islands— Emerging Smart Cities and safe cities in India - Sustainable Cities
5	Reading of Thematic Maps and Map Filling
	Reading of Thematic Maps(4 Lectures)  Located bars, Circles, Pie charts, Isopleths, Choroplethand Flow map, Pictograms - Only reading and interpretation.  Map Filling: (4 Lectures)  Map filling of World (Environmentally significant features) using point, line and polygon segment.  Concept and Calculation of Ecological Footprint

## Revised Syllabus of Courses of B.Com. Programme at Semester I with Effect from the Academic Year 2016-2017

## Skill Enhancement Courses (SEC)

## 6. Foundation Course - I

Sr. No.	Modules	No. of Lectures
1	Overview of Indian Society	05
2	Concept of Disparity- 1	10
3	Concept of Disparity-2	10
4	The Indian Constitution	10
5	Significant Aspects of Political Processes	10
	Total	45

Sr. No.	Modules / Units		
1	Overview of Indian Society		
	Understand the multi-cultural diversity of Indian society through its demographic composition: population distribution according to religion, caste, and gender; Appreciate the concept of linguistic diversity in relation to the Indian situation; Understand regional variations according to rural, urban and tribal characteristics; Understanding the concept of diversity as difference		
2	Concept of Disparity- 1		
	Understand the concept of disparity as arising out of stratification and inequality; Explore the disparities arising out of gender with special reference to violence against women, female foeticide (declining sex ratio), and portrayal of women in media; Appreciate the inequalities faced by people with disabilities and understand the issues of people with physical and mental disabilities		
3	Concept of Disparity-2		
	Examine inequalities manifested due to the caste system and inter-group conflicts arising thereof; Understand inter-group conflicts arising out of communalism; Examine the causes and effects of conflicts arising out of regionalism and linguistic differences		
4	The Indian Constitution		
	Philosophy of the Constitution as set out in the Preamble; The structure of the Constitution-the Preamble, Main Body and Schedules; Fundamental Duties of the Indian Citizen; tolerance, peace and communal harmony as crucial values in strengthening the social fabric of Indian society; Basic features of the Constitution		
5	Significant Aspects of Political Processes		
	The party system in Indian politics; Local self-government in urban and rural areas; the 73rd and 74th Amendments and their implications for inclusive politics; Role and significance of women in politics		

#### Topics for Project Guidance: Growing Social Problems in India:

- Substance abuse-impact on youth & challenges for the future
- HIV/AIDS- awareness, prevention, treatment and services
- Problems of the elderly- causes, implications and response
- Issue of child labour- magnitude, causes, effects and response
- Child abuse- effects and ways to prevent
- Trafficking of women- causes, effects and response

## Revised Syllabus of Courses of B.Com. Programme at Semester II with Effect from the Academic Year 2016-2017

## Ability Enhancement Courses (AEC)

### **4.Environmental Studies II**

Sr. No.	Modules	No. of Lectures
1	Solid Waste Management for Sustainable Society	
2	Agriculture and Industrial Development	
3	Tourism and Environment	
4	Environmental Movements and Management	
5	Map Filling	
	Total	60

Sr. No.	Modules / Units		
1	Solid Waste Management for Sustainable Society		
	Classification of solid wastes – Types and Sources of Solid Waste; Effects of Solid Waste Pollution- Health hazards, Environmental Impacts; Solid Waste Management – solid waste management in Mumbai- Schemes and initiatives run by MCGM – role of citizens in waste management in Mumbai		
2	Agriculture and Industrial Development		
	Environmental Problems Associated with Agriculture: Loss of Productivity, Land Degradation ,desertification - Uneven Food Production - Hunger, Malnutrition and Food Security - Sustainable Agricultural practices Environmental Problems Associated with Industries - pollution -Global warming, Ozone Layer Depletion , Acid rain, - Sustainable Industrial practices - Green Business and Green Consumerism, Corporate Social Responsibility		
3	Tourism and Environment		
	Tourism: Meaning, Nature, Scope and importance –Typology of tourism-classification; Tourism potentials in India and challenges before India; New Tourism Policy of India; Consequences of tourism: Positive and Negative Impacts on Economy, Culture and environment-		
4	Environmental Movements and Management		
	Environmental movements in India: Save Narmada Movement, Chipko Movement, Appiko Movement, Save Western Ghat and Save Jaitapur; Environmental Management: Concept, need and relevance; Concept of ISO 14000 and 16000; Concept of Carbon Bank and Carbon Credit.EIA - Environment Protection Acts — Concept and components of Geospatial Technology-Applications of GST in Environmental Management.		
5	Map Filling		
	Map filling of Konkan and Mumbai (Environmentally significant features and GST centers) using point, line and polygon segment.  Concept and Calculation of Environmental Performance Index (EPI)		

## Revised Syllabus of Courses of B.Com. Programme at Semester II with Effect from the Academic Year 2016-2017

### Skill Enhancement Courses (SEC)

#### 6. Foundation Course - II

Sr. No.	Modules	No. of Lectures
1	Globalisation and Indian Society	07
2	Human Rights	10
3	Ecology	10
4	Understanding Stress and Conflict	10
5	Managing Stress and Conflict in Contemporary Society	08
	Total	45

Sr. No	Modules /Units	
1	Globalisation and Indian Society	
	Understanding the concepts of liberalization, privatization and globalization; Growth of information technology and communication and its impact manifested in everyday life; Impact of globalization on industry: changes in employment and increasing migration; Changes in agrarian sector due to globalization; rise in corporate farming and increase in farmers' suicides.	
2	Human Rights	
	Concept of Human Rights; origin and evolution of the concept; The Universal Declaration of Human Rights; Human Rights constituents with special reference to Fundamental Rights stated in the Constitution	
3	Ecology	
	Importance of Environment Studies in the current developmental context; Understanding concepts of Environment, Ecology and their interconnectedness; Environment as natural capital and connection to quality of human life; Environmental Degradation- causes and impact on human life; Sustainable development-concept and components; poverty and environment	
4	Understanding Stress and Conflict	
	Causes of stress and conflict in individuals and society; Agents of socialization and the role played by them in developing the individual; Significance of values, ethics and prejudices in developing the individual; Stereotyping and prejudice as significant factors in causing conflicts in society. Aggression and violence as the public expression of conflict	
5	Managing Stress and Conflict in Contemporary Society	
	Types of conflicts and use of coping mechanisms for managing individual stress; Maslow's theory of self-actualisation; Different methods of responding to conflicts in society; Conflict-resolution and efforts towards building peace and harmony in society	

#### Textbook:

 Calculus: Early transcendental (10th Edi on): Howard Anton, Irl Bivens, Stephen Davis, John Wiley & sons, 2012.

#### Addi onal References:

- 1. Calculus and analy c geometry (9th edi on): George B Thomas, Ross L Finney, Addison Wesley, 1995
- 2. Calculus: Early Transcendentals (8th Edi on): James Stewart, Brooks Cole, 2015.
- 3. Calculus (10th Edi on): Ron Larson, Bruce H. Edwards, Cengage Learning, 2013.
- 4. Thomas' Calculus (13th Edi on): George B. Thomas, Maurice D. Weir, Joel R. Hass, Pearson, 2014.

Course:	Sta s cal Methods and Tes ng of Hypothesis	
USCS20 <b>6</b>	(Credits : 2 Lectures/Week: 3)	
Objec ves:		
The purpose	of this course is to familiarize students with basics of Sta s cs. This will be essen al fo	r prospec ve
researchers a	and professionals to know these basics.	
Expected Lea	rrning Outcomes:	
1) Enable	learners to know descrip ve sta s cal concepts	
2) Enable	study of probability concept required for Computer learners	
	Standard distribu ons: random variable; discrete, con nuous, expecta on and	
Unit I	variance of a random variable, pmf, pdf, cdf, reliability,	15L
Onici	Introduc on and proper es without proof for following distribu ons; binomial,	130
	normal, chi-square, t, F. Examples	
	Hypothesis tes ng: one sided, two sided hypothesis, cri cal region, p-value, tests	
Unit II	based on t, Normal and F, con dence intervals.	15L
	Analysis of variance : one-way, two-way analysis of variance	
	Non-parametric tests: need of non-parametric tests, sign test, Wilicoxon's signed	
Heit III	rank test, run test, Kruskal-Walis tests.	15L
Unit III	Post-hoc analysis of one-way analysis of variance : Duncan's test Chi-square test of	15L

#### Text Book:

 Trivedi, K.S. (2009): Probability, Sta s cs, Design of Experiments and Queuing theory, with applica ons of Computer Science, Pren ce Hall of India, New Delhi

#### Addi onal References:

associa on

- 1. Ross, S.M. (2006): A First course in probability. 6th Edn Pearson
- Kulkarni, M.B., Ghatpande, S.B. and Gore, S.D. (1999): Common sta s cal tests.
   Satyajeet Prakashan, Pune
- Gupta, S.C. and Kapoor, V.K. (2002): Fundamentals of Mathema cal Sta s cs,
   S. Chand and Sons, New Delhi
- 4. Gupta, S.C. and Kapoor, V.K. (4th Edi on): Applied Statistics, S. Chand and Son's, New Delhi
- 5. Montgomery, D.C. (2001): Planning and Analysis of Experiments, Wiley.

Course:	Green Technologies	
USCS207	(Credits : 2 Lectures/Week: 3)	

#### Objec ves:

To familiarize with the concept of Green Compu ng and Green IT infrastructure for making compu ng and informa on system environment sustainable. Encouraging op mized so ware and hardware designs for development of Green IT Storage, Communica on and Services. To highlight useful approaches to embrace green IT ini a ves.

#### **Expected Learning Outcomes:**

- Learn about green IT can be achieved in and by hardware, so ware, network communica on and data center opera ons.
- 2) Understand the strategies, frameworks, processes and management of green IT

Unit I	Green IT Overview: Introduc on , Environmental Concerns and Sustainable Development, Environmental Impacts of IT, Green I , Holis c Approach to Greening IT, Greening IT, Applying IT for Enhancing Environmental Sustainability, Green IT Standards and Eco-Labelling of IT , Enterprise Green IT Strategy, Green Washing, Green IT: Burden or Opportunity?  Green Devices and Hardware: Introduc on , Life Cycle of a Device or Hardware, Reuse, Recycle and Dispose  Green So ware: Introduc on , Processor Power States , Energy-Saving So ware Techniques, Evalua ng and Measuring So ware Impact to Pla orm Power  Sustainable So ware Development: Introduc on, Current Prac ces, Sustainable So ware, So ware Sustainability A ributes, So ware Sustainability Metrics, Sustainable So ware Methodology, De ning Ac ons	15L
Unit II	Green Data Centres: Data Centres and Associated Energy Challenges, Data Centre IT Infrastructure, Data Centre Facility Infrastructure: Implica ons for Energy E ciency, IT Infrastructure Management, Green Data Centre Metrics Green Data Storage: Introduc on , Storage Media Power Characteris cs, Energy Management Techniques for Hard Disks, System-Level Energy Management Green Networks and Communica ons: Introduc on, Objec ves of Green Network Protocols, Green Network Protocols and Standards Enterprise Green IT Strategy: Introduc on, Approaching Green IT Strategies, Business Drivers of Green IT Strategy, Business Dimensions for Green IT Transforma on, Organiza onal Considera ons in a Green IT Strategy, Steps in Developing a Green IT Strategy, Metrics and Measurements in Green Strategies.	
Unit III	Sustainable Informa on Systems and Green Metrics: Introduc on, Mul level Sustainable Informa on, Sustainability Hierarchy Models, Product Level Informa on, Individual Level Informa on, Func onal Level Informa on, Organiza onal Level Informa on, Measuring the Maturity of Sustainable ICT  Enterprise Green IT Readiness: Introduc on, Readiness and Capability, Development of the G-Readiness Framework, Measuring an Organiza on's G-Readiness  Sustainable IT Services: Crea ng a Framework for Service Innova on: Introduc on, Factors Driving the Development of Sustainable IT, Sustainable IT Services (SITS), SITS Strategic Framework  Green Enterprises and the Role of IT: Introduc on, Organiza onal and Enterprise Greening, Informa on Systems in Greening Enterprises, Greening the Enterprise: IT Usage and Hardware, Inter-organiza onal Enterprise Ac vi es and Green Issues	15L

#### Text book:

1) Harnessing Green IT: Principles and Prac ces, San Murugesan, G. R. Ganadharan, Wiley & IEEE.

#### Addi onal References:

- 1) Green IT, Deepak Shikarpur, Vishwkarma Publica ons, 2014
- 2 Green Communica ons: Principles, Concepts and Prac ce-Samdanis et al, J. Wiley
- 3) Green IT for Sustainable Business Prac ce: An ISEB Founda on Guide, Mark G. O'Neill, The Chartered Inst ute for IT, 2010

## Revised Syllabus of Courses of B.Com. Programme at Semester III with Effect from the Academic Year 2017-2018

## 2 Ability Enhancement Courses (AEC) 2B \* Skill Enhancement Courses (SEC) Group B

### 6. Foundation Course- Contemporary Issues- III

Sr. No.	Modules	No. of Lectures
1	Human Rights Provisions, Violations and Redressal	12
2	Dealing With Environmental Concerns	11
3	Science and Technology I	11
4	Soft Skills for Effective Interpersonal Communication	11
	Total	45

#### 2. Certificate of Institute's Environment Audit

GV/ ENVT/ 01-22/46 Environment Hudit Certificate is awarded for 2019-20 and 2020-21 to the Esteemed Institution Dnyandeep Shikshan Prasarak Mandal's **Dnyandeep College of Science and Commerce** A/p Morvande-Boraj, Tal. Khed, Dist. Ratnagiri, Khed - 415709, Maharashtra As part of the Institution's initiatives for a Healthy & Sustainable College the audit was conducted. We appreciate the immense efforts taken by Staff and students towards the Environment Protection and Conservation. Issued on Monday, 31 January 2022 valid till January 2023 Project Head and Green Building Consultant **Sustainable Academe** Sustainability Department of Greenvio Solutions, Naigaon An environment Design and Consultancy developing Healthy and Sustainable Environments sustainableacademe@gmail.com I greenviosolutions@gmail.com

#### 3. Certificate of Institute's Energy Audit

GV/ EA/ 01-22/44



is awarded for 2019-20 and 2020-21 to the Esteemed Institution

Dnyandeep Shikshan Prasarak Mandal's

### **Dnyandeep College of Science and Commerce**

A/p Morvande-Boraj, Tal. Khed, Dist. Ratnagiri, Khed – 415709, Maharashtra

As part of the Institution's initiatives for a Healthy & Sustainable College the audit was conducted.

We appreciate the immense efforts taken by Staff and students towards the Energy Management and Conservation.

Issued on Monday, 31 January 2022 valid till January 2023

Ar Mahida Shaikh

Project Head and Green Building Consultant

#### **Sustainable Academe**

Sustainability Department of Greenvio Solutions, Naigaon
An environment Design and Consultancy developing Healthy and Sustainable Environments
sustainableacademe@gmail.com I greenviosolutions@grhail.com



#### 4. Certificate of Institute's Green Audit

GV/ GA/ 01-22/ 46

# Green Audit Certificate

is awarded for 2019-20 and 2020-21 to the Esteemed Institution

Dnyandeep Shikshan Prasarak Mandal's

## **Dnyandeep College of Science and Commerce**

A/p Morvande-Boraj, Tal. Khed, Dist. Ratnagiri, Khed - 415709, Maharashtra

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Ar. Nahida Shaikh

Project Head and Green Building Consultant

#### **Sustainable Academe**

Sustainability Department of Greenvio Solutions, Naigaon
An environment Design and Consultancy developing Healthy and Sustainable Environments
sustainableacademe@gmail.com I greenviosolutions@gmail.com



#### 5. Certificate of Institute's Gender Audit



#### 6. Seminar on Gender Sensitization / Gender Equality

#### Academic Year 2019-20

Dnyandeep Shikshan Prasarak Mandal's Dnyandeep College of Science & Commerce Moravande-Boraj Academic Year:- 2019-20 Women Development Cell (WDC) Report



Subject:- Lecture on "Gender Sensitization & Cyber Violence".

Date: 03/01/2020

Venue:- D.E.M.S. Auditorium hall.

Dnyandeep College of science and commerce department of Women Development Cell (WDC) has organized "Balika Din" on the occasion of Savitribai Phule birth anniversary dated 3<sup>rd</sup> January 2020. On this occasion we invited Hon. Suvarna Patki(Police Inspector, Khed Police Station) to deliver a lecture on "Gender Sensitization & Cyber Violence". Hon. Mr. Somnath Kadam( Sub-Inspector, Khed Police Thane) guided about Cyber Crime.

Hon. Suvarna Patki(Police Inspector, Khed Police Station), Hon. Mr. Somnath Kadam( Sub-Inspector, Khed Police Thane), Hon. Mr. Sanket Gurav(Police Naik), Mrs. Vidya Kittad(Co-Ordinator, Khed Police Station), Hon. Khambe(Co-Ordinator, Khed Police Station), Hon. Kudalkar(Member of Mahila Dakshata Samiti), Hon. Salvi( Police Naik), Hon. Mr. Arvind Todkari(President of Dnyandeep Shikshan Prasarak Mandal, Khed), Hon. Mr. Madhav Pethe(Vice-President of Dnyandeep Shikshan Prasarak Mandal, Khed), Hon. Mr. Prakash Gujarathi(General Secretary of Dnyandeep Shikshan Prasarak Mandal, Khed), Hon. Mr. Deepak Laddha(Chairman of Governing council & CDC), Hon. Dr. Umeshkumar Bagal (I/C Principal Dnyandeep College), Hon. Mr. Bharat More (Headmaster Pre-Primary & Primary section, DEMS), Hon. Mr. Rajesh Kittad (Section Head, Secondary & Higher secondary, DEMS), all teachers, non-teaching staff and approximately 400 students were present for this program. Ms. Gauri Kadam introduced the guests & welcome ceremony took place.

On the occasion of Balika Din, Hon. Suvarna Patki Madam garlanded SavitriBai Phule photo & also cut a cake along with some girls representatives. After this, Gulshan Warwatkar (T.Y.Bcom) presented beautiful instrumental song in front of crowd and Madhura Tatkari (T.Y.Bcom) shared her opinion about Savitribai Phule.

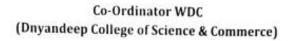
Hon. Mr. Somnath Kadam( Sub-Inspector, Khed Police Thane) guided about Cyber Crime with the motive of preventing the misuse of Social media, cyber fraud done by people and the measure to prevent it.

Chief Guest Hon. Suvarna Patki (Police Inspector, Khed Police Station) Madam addressed the students by informing them about gender disparity, ways to remove gender disparity and create awareness about good touch & bad touch, misuse of mobile phone, proper use of social media, Maha Traffic App. She continued by saying that we can protect ourselves with the things available to us such as tiffin, deo, etc. Hon. Khambe (Co-Ordinator, Khed Police Station), Hon. Kudalkar (Member of Mahila Dakshata Samiti) also shared their views.

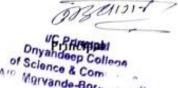
Hon. Mr. Prakash Gujarati (General Secretary of Dnyandeep Shikshan Prasarak Mandal, Khed) agreed with the points of Hon. Suvarna Patki Madam and made an appeal to the students to inculcate the good habits regarding use of social media.

Around 17 parents with single girl child were felicitated along with their wards from the Senjor College, Junior College, Higher Secondary and Primary Section). Miss. Rushali Jadav (Asst. Prof.) also shared her view on this occasion and finally president of program Hon. Dr. Umeshkumar Bagal addressed the students and shared importance of self-employment to the student and specially women in this competitive world.

This way the whole program was a great success and proved productive to all of us. Students gave their positive feedbacks towards it. Ms. Neha Shukla (Asst. Prof.) proposed vote of thanks and program was over with the permission of all dignitaries.

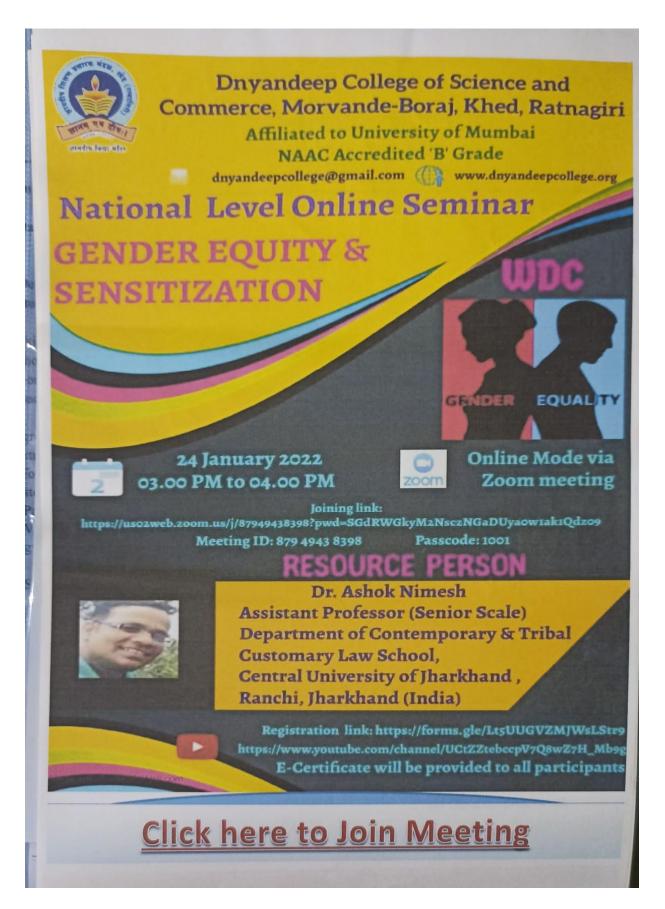


Photos:-





#### Academic Year 2021-22





DNYANDEEP SHIKSHAN PRASARAK MANDAL, KHED (RATNAGIRI'S)

## DNYANDEEP COLLEGE (SCIENCE & COMMERCE) ज्ञातदीप महाविद्यालय (विज्ञान व वाणिज्य)

At./Post. Morvande - Bornj, Tal. Khed, Dist. Ratnagiri, Pin. - 415 709. मु.पो. मोरवंडे-बोरज, ता. खेड, जि. स्तागिरी, पिन - ४१५ ७०९. Tel.: 7719810000

Permanently Unaided College Affiliated to Mumbal University Vido Aff./Recog - 1/2960 of 2009 dt. 9/6/09

Dato: 22/01/2022\_

Outward No.: 175/01/2021-2022

To.

Dr. Ashok Nimesh, Assistant Professor(Senior Scale), Department of Contempory & Tribal Customary Law School, Central University of Jharkhand, Ranchi, Jharkhand (India)

Subject :- Invitation for Seminar on "Gender Equity & Sensitization"

#### Dear Sir,

Dnyandeep College of Science and Commerce, Morvande-Boraj is going to organize an Online Seminar on "Gender Equity & Sensitization" for all Students on dated 24/01/2022 at 03.00 p.m. We wish to invite you as a resource person.

We wish to invite you as a a resource person for above mentioned Seminar. We kindly request you to give your Seminar on the same.

With warm regards,

Thanking you,

Dnyandeep College of Science & Commerce A/P Morvande-Boraj (Khed)

#### 7. Tree Plantation and Other activities







