



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJIA – 722143

(On NH-60)
P.O. - Mejia, Dist. - Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Web: www.kjrggdc.ac.in

1.2.1 Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. where the students of the institution have enrolled and successfully completed during the last five years)

1.2.2 Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

Institutional brochures of certificate courses with course modules, outcomes, etc.

Co-ordinator, IQAC
Kabi Jagadram Roy Government
General Degree College
Mejia, Bankura PIN-722143



Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143 Dist-Bankura, W.B.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJA – 722143

(On NH-60)
P.O. - Mejia, Dist. - Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmeja@gmail.com
Web: www.kjrggdc.ac.in

Academic Year 2022-23



Certificate course in Swami Vivekananda's Philosophy

Kabi Jagadram Roy Government General Degree College, Mejia, Bankura

Certificate Course

in

SWAMI VIVEKANANDA'S PHILOSOPHY

Department of Philosophy & Study Centre of Swami Vivekananda

(in Collaboration with IQAC)

Brochure

| Sl No. | Course Design | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|--|-------------------|---|--|------------------------------------|------------|------------------------|------------|---------------------|---------|------------------------------------|---------|---|---------|----|--------|----|---------|----|---------|---|--------------|----|--------------|---|
| 1 | Context | 1. The "Swami Vivekananda Certificate Course" likely refers to an educational program or course centered around the teachings, philosophy, and life of Swami Vivekananda, a renowned Indian monk and spiritual leader who played a key role in the introduction of Indian philosophies of Vedanta and Yoga to the Western world. Here's some context around it: | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Target Students | Current under graduate students having Philosophy, as their Honours or Program subject. Students from other departments may also enrol themselves. | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Course Objective | <table border="1"> <tr> <td>1.</td> <td>Understanding Swami Vivekananda's Life and Teachings.</td> </tr> <tr> <td>2.</td> <td>Exploration of Vedanta Philosophy.</td> </tr> <tr> <td>3.</td> <td>Character Development.</td> </tr> <tr> <td>4.</td> <td>Service to Humanity</td> </tr> <tr> <td>5.</td> <td>Practical Application of Teachings</td> </tr> </table> | 1. | Understanding Swami Vivekananda's Life and Teachings. | 2. | Exploration of Vedanta Philosophy. | 3. | Character Development. | 4. | Service to Humanity | 5. | Practical Application of Teachings | | | | | | | | | | | | | | |
| 1. | Understanding Swami Vivekananda's Life and Teachings. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. | Exploration of Vedanta Philosophy. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. | Character Development. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. | Service to Humanity | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. | Practical Application of Teachings | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Faculty Requirement | Internal (Dept. of Philosophy) | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Modern Pedagogy | Student-Centered Learning: This approach prioritizes the needs, interests, and abilities of students, encouraging active participation, critical thinking, and problem-solving skills. | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Course Fee | Nil | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Intake Capacity | Around 20 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | Course Duration | (Two weeks): 30 hours | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Assessment Process | <ol style="list-style-type: none"> Attendance Written Exam (MCQ) Viva-voce | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Grading | <table border="1"> <thead> <tr> <th>Attendance (%age)</th> <th>Marks</th> <th>Total %age of marks obtained(as per sl.no.9)</th> <th>Grade</th> </tr> </thead> <tbody> <tr> <td>90 & above</td> <td>05</td> <td>80 & above</td> <td>A+</td> </tr> <tr> <td>80 – 89</td> <td>04</td> <td>60 - 79</td> <td>A</td> </tr> <tr> <td>70 – 79</td> <td>03</td> <td>40 -59</td> <td>B+</td> </tr> <tr> <td>60 – 69</td> <td>02</td> <td>30 – 39</td> <td>B</td> </tr> <tr> <td>Less than 60</td> <td>00</td> <td>Less than 30</td> <td>C</td> </tr> </tbody> </table> | Attendance (%age) | Marks | Total %age of marks obtained(as per sl.no.9) | Grade | 90 & above | 05 | 80 & above | A+ | 80 – 89 | 04 | 60 - 79 | A | 70 – 79 | 03 | 40 -59 | B+ | 60 – 69 | 02 | 30 – 39 | B | Less than 60 | 00 | Less than 30 | C |
| Attendance (%age) | Marks | Total %age of marks obtained(as per sl.no.9) | Grade | | | | | | | | | | | | | | | | | | | | | | | |
| 90 & above | 05 | 80 & above | A+ | | | | | | | | | | | | | | | | | | | | | | | |
| 80 – 89 | 04 | 60 - 79 | A | | | | | | | | | | | | | | | | | | | | | | | |
| 70 – 79 | 03 | 40 -59 | B+ | | | | | | | | | | | | | | | | | | | | | | | |
| 60 – 69 | 02 | 30 – 39 | B | | | | | | | | | | | | | | | | | | | | | | | |
| Less than 60 | 00 | Less than 30 | C | | | | | | | | | | | | | | | | | | | | | | | |



**DETAILED SYLLABUS OF THE CERTIFICATE COURSE
2022-23**

Swami Vivekananda's Philosophy

Syllabus

(Unit1):

- Introduction to Swami Vivekananda
- Biography of Swami Vivekananda
- Key events and influences in Vivekananda's journey

Unit : II

- To understand the fundamental concepts of Vedanta philosophy as expounded by Swami Vivekananda.
- To explore the practical implications of Vedantic teachings for individual well-being and societal harmony.
- To analyze Vivekananda's interpretation of Vedanta in the context of modern challenges and opportunities.
- To cultivate practical skills and strategies for applying Vedantic principles in personal and professional contexts.
- To reflect on personal growth and transformation inspired by the practice of Vedanta.

Unit : III

- Overview of Karma Yoga: Understanding action, selflessness, and spiritual growth.
- Swami Vivekananda's interpretation of Karma Yoga as a path to self-realization and liberation.

Unit :- IV

- Vivekananda's Impact on Modern Thought
- Vivekananda's relevance in contemporary society



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJIA – 722143

(On NH-60)
P.O. - Mejia, Dist. - Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Web: www.kjrggdc.ac.in

Certificate course on Fundamental Discoveries in Physics

Kabi Jagadram Roy Government General Degree College, Mejia, Bankura
Department of Physics
Certificate course
On
FUNDAMENTAL DISCOVERIES IN PHYSICS
2022-23

Brochure

| Sl No. | Course Design | | | | |
|--------|----------------------------|--|-------|--|----------------|
| 1 | Context | 1.To develop the curiosity about the natural phenomena and the elements in scientific manner. 2. To meet the demand of experimental studies through hand on training of small instrument. 3. To reveal the holistic approach about man-environment relationship the different natural environment. | | | |
| 2 | Target Students | Current under graduate students having Physics, Geology, Mathematics and Economics as their Honours or Program subject. Students from other departments may also enrol themselves. | | | |
| 3 | Course Objective | 1. To give an idea about the development of Physics as our daily life applications 2. To deliver the information about the history of a particular discovery starting from the ancient time. 3. To discuss about the life histories of eminent scientists associated with the discoveries. | | | |
| 4 | Faculty Requirement | Internal (Department of Physics) | | | |
| 5 | Modern Pedagogy | Students can grow their interest about the history of Physics through a long span from ancient age to modern age | | | |
| 6 | Course Fee | Nil | | | |
| 7 | Intake Capacity | Around 20 | | | |
| 8 | Course Duration | 12 th May, 2023 to 30 th May, 2023 (Two weeks): 30 hours | | | |
| 9 | Assessment Process | 1. Attendance 2. Written Exam (MCQ) 3. Viva-voce | | | |
| 10 | Grading | Attendance (% age) | Marks | Total % age of marks obtained (as per Sl. No. 9) | Grade |
| | | 90 & above | 05 | 80 & above | A ⁺ |
| | | 80-89 | 04 | 60-79 | A |
| | | 70-79 | 03 | 40-59 | B ⁺ |
| | | 60-69 | 02 | 30-39 | B |
| | | Less than 60 | 00 | Less than 30 | C |



**DETAILED SYLLABUS OF THE CERTIFICATE COURSE:
2022-23**

Fundamental Discoveries in Physics

UNIT- 1:

Discoveries in ancient age [TIME: 2 HOURS]

Discoveries and life histories of Democritus, Aristotle, Ptolemy, Archimedes.

UNIT- 2:

Discoveries in 16th and 17th centuries [TIME: 6 HOURS]

Discoveries and life histories of Nicolaus Copernicus, Galileo Galilei, Robert Hook, Robert Boyle, Blaise Pascal, Christiaan Huygens, Isaac Newton.

UNIT- 3:

Discoveries in 18th and 19th centuries [TIME :6 HOURS]

Discoveries and life histories of Antoine Lavoisier, Benjamin Franklin, Charles-Augustin de Coulomb, Thomas Young, John Dalton, Georg Ohm, Michael Faraday, J C Maxwell, Gustav Kirchhoff, Peter Zeeman, Henri Becquerel, Curie.

UNIT-4:

Discoveries in 20th and 21st centuries [TIME:6 HOURS]

Discoveries and life histories of Max Planck, J. J. Thomson, Einstein, Ernest Rutherford, Niels Bohr, Paul Dirac, Max Born, James Chadwick, Richard Feynmann, Peter Higgs

UNIT-5:

LAB [TIME :10 HOURS]

Hook's law, Ohm's law, Stefan's law, Laws of reflection and refraction, value of gravitational acceleration, Young's modulus.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJIA – 722143

(On NH-60)
P.O. - Mejia, Dist. - Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Web: www.kjrggdc.ac.in

Certificate course on Antarctica: A continent of wonders

**Kabi Jagadram Roy Government General Degree College
Mejia, Bankura**

A Certificate Course

On

Antarctica: A continent of wonders

Conducted by

Department of Geology

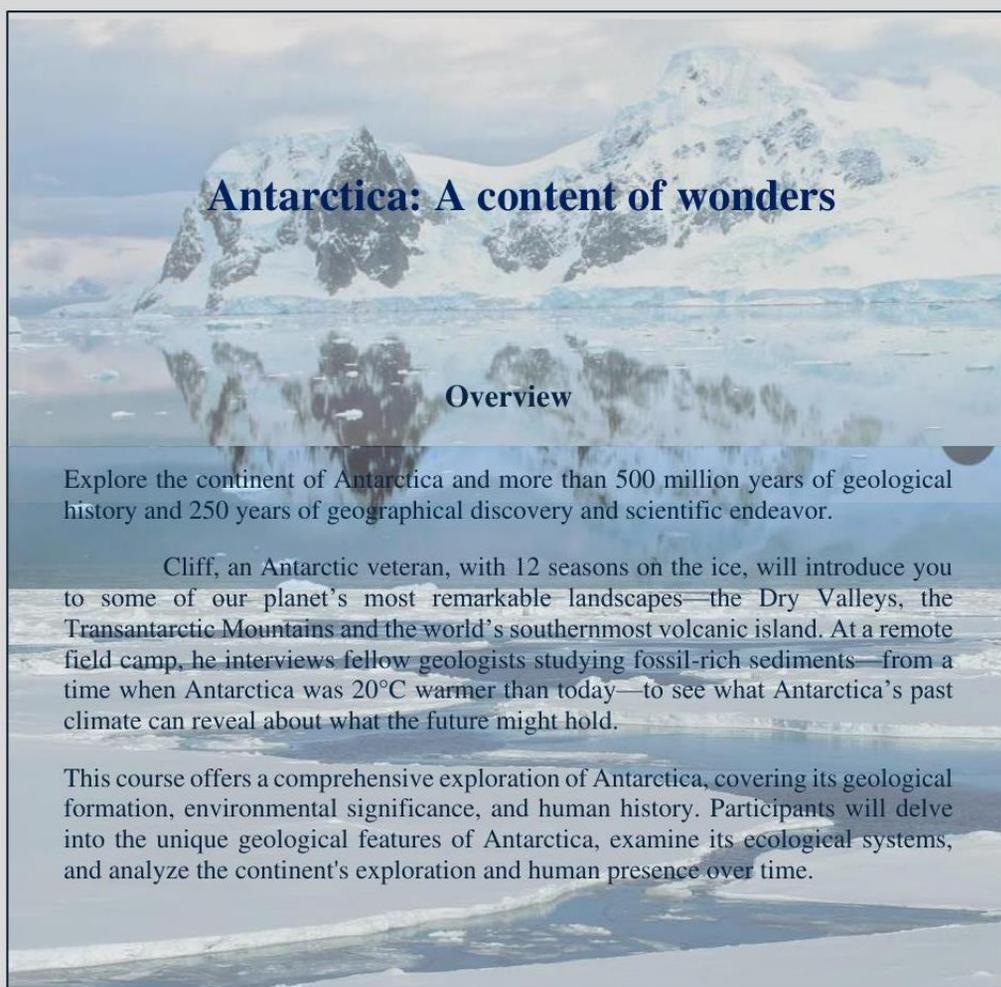
(In association with IOAC)

[December 21-31, 2022]



".....দক্ষিণ মেরুর উর্ধ্বে যে অজ্ঞাত তারা
মহাজনশূন্যতায় রাত্রি তার করিতেছে সারা,
সে আমার অর্ধরাত্রি অনিমেষ চোখে
অনিদ্রা করেছে স্পর্শ অপূর্ব আলোকে।"

রবীন্দ্রনাথ ঠাকুর (ঐকতন)



Antarctica: A content of wonders

Overview

Explore the continent of Antarctica and more than 500 million years of geological history and 250 years of geographical discovery and scientific endeavor.

Cliff, an Antarctic veteran, with 12 seasons on the ice, will introduce you to some of our planet's most remarkable landscapes—the Dry Valleys, the Transantarctic Mountains and the world's southernmost volcanic island. At a remote field camp, he interviews fellow geologists studying fossil-rich sediments—from a time when Antarctica was 20°C warmer than today—to see what Antarctica's past climate can reveal about what the future might hold.

This course offers a comprehensive exploration of Antarctica, covering its geological formation, environmental significance, and human history. Participants will delve into the unique geological features of Antarctica, examine its ecological systems, and analyze the continent's exploration and human presence over time.

Why we study about antarctica:

Science is really significant in Antarctica because unlike most other areas of the world, it remains relatively untouched and all activities are carefully controlled and monitored. The scientific studies in Antarctica are often ones that cannot usually be conducted elsewhere and help our understanding of global environmental issues including climate change, ozone depletion, sea level rise. Antarctica is also a barometer of climate change.



COURSE CONTENT

Module1: Introduction to Antarctica:

Module Description: The "Introduction to Antarctica" module serves as an entry point for learners to explore the geography, geology, climate, and significance of Antarctica. Through this module, participants will gain foundational knowledge about the southernmost continent, its unique features, and its role in global environmental systems.

Understanding Antarctica:

- Overview of Antarctica's geographic location, size, boundaries climate, and physical characteristics
- Introduction to landmarks of Antarctic
- Introduction to the climate and weather patterns of Antarctica
- Discussion on the significance of Antarctica as a continent and its role in regulating global climate systems

Origin of Antarctica:

- Exploration of Antarctica's geological history and formation
- Plate tectonics and the breakup of Gondwana: How Antarctica became a separate landmass

Landscapes and Ecosystem:

- Overview of geological features such as mountains, glaciers, and ice shelves
- Flora and Fauna of Antarctica; exploration of Antarctica's rich wildlife, including penguins, seals, whales, and seabirds
- Overview of the unique adaptations of Antarctic animals to survive in extreme conditions
- Importance of Antarctic Ecosystems

Module 2: Exploration and Discovery

Module Description: The "Exploration and Discovery of Antarctica" module offers participants a comprehensive journey through the history of Antarctic exploration, from the earliest voyages of discovery to modern scientific expeditions. Through a blend of historical accounts, multimedia presentations, and interactive discussions, learners will gain insights into the challenges, triumphs, and enduring legacy of Antarctic exploration.

Early Voyages, Discoveries and Antarctic Exploration:

- Overview of early attempts to explore and discover Antarctica
- Exploration of the Heroic Age of Antarctic Exploration (late 19th to early 20th century)
- Exploration expeditions led by notable explorers such as Scott, Amundsen, and Shackleton



- Motivations and challenges faced by early explorers in their quest to reach the southernmost continent and survive in Antarctica's harsh environment

Scientific Expeditions and Research:

- Overview of scientific expeditions and research conducted in Antarctica during the 20th-21st century
- Discussion on the establishment of research stations and the development of Antarctic science programs
- Exploration of key discoveries and breakthroughs in fields such as geology, glaciology, oceanography, and biology

Module 3: Wonders and Challenges:

Module overview: This module aims to provide a comprehensive overview of the wonders and challenges of Antarctica, covering its unique environment, scientific significance, human presence, environmental threats, cultural aspects, and future prospects. Each session combines lectures, discussions, and interactive activities to engage participants and deepen their understanding of Antarctica's complexities.

Antarctica and Human:

- Historical overview of human exploration and scientific research in Antarctica.
- Challenges of Living and Working in Antarctica
- Indigenous Peoples and Cultural Significance of Antarctica

Climate Issues in Antarctica

- Climate Change and Its Impact on Antarctica
- Melting Ice: Environmental Consequences and Global Implications
- Wildlife Conservation Efforts in Antarctica
- Threats to Antarctic Ecosystems: Pollution, Invasive Species, and Overfishing

Tourism and future prospect in Antarctica

- Tourism in Antarctica: Opportunities and Challenges
- Future Prospects for Antarctica: Environmental Protection and Sustainability

Suggested Reading:

- ❖ Scott and Amundsen: The Last Place on Earth, Roland Huntford
- ❖ Race to the South Pole, Roald Amundsen
- ❖ Forgotten Footprints: Lost Stories in the Discovery of Antarctica, John Harrison
- ❖ Natural History of the Antarctic Peninsula, Sanford Moss
- ❖ Antarctica (Bengali Edition) by Sudipta Sengupta (Author)
- ❖ Antarctica: Life on the Frozen Continent (Wonders of Our Planet) by Conor Kilgallon
- ❖ Pilgrims on the Ice: Robert Falcon Scott's First Antarctic Expedition by T. H. Baughman
- ❖ <https://discoveringantarctica.org.uk/>



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJIA – 722143

(On NH-60)
P.O. - Mejia, Dist. - Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Web: www.kjrggdc.ac.in

Certificate course on Media Ethics

Kabi Jagadram Roy Government General Degree College, Mejia, Bankura

Department of Philosophy

(In association with IQAC)

Offer

Certificate Course

On

“MEDIA ETHICS”

2022-23 (Winter Recess)



Course objective: To enable the students to understand the nature, evolution, and importance of various media and why ethics and ethical principles will need to regulate this gigantic power for the overall development of a healthy society.

Course outcome: After completing this course, the students will understand the enormous power and impact of the media. They will also understand that the modern world is like a big family, connected with each other through various forms of media. Family members may have different activities, roles, opinions, and occupations, but all members must follow some standard rules for overall development, peace, and tranquility. Ethical codes and principles have similar roles in media. This course will help them understand why ethics, ethical values, and principles are essential in the media field, which will eventually keep them away from misusing this gigantic power.



Participants: Undergraduate students from all the departments are welcome!

Course duration: (30 hours) Winter Recess, 2022

Patron: Prof. Alope Kumar Das (Officer-in-Charge) &
Dr. Aresh Kumar Maji (IQAC Coordinator)

Faculty Requirement: Internal (Department of Philosophy)
Dr. Arpita Chauni (HOD, Philosophy & Course-coordinator)
Dr. Siba Prasad Choudhury (Joint coordinator)
Mr. Wittick Bhattacharya (Member)

Course fee: NIL

Intake Capacity: 25

Assessment process: Attendance (In-class participation) (10marks)
Written Exam (MCQ) (40marks)
Total Marks: 50

Grading

| Attendance (%) | Marks | Total % of marks obtained in written exam | Grade |
|----------------|-------|---|-------|
| 90 & above | 10 | 80 & above | A+ |
| 80-89 | 07 | 60-79 | A |
| 70-79 | 05 | 40-59 | B+ |
| 60-69 | 03 | 30-39 | B |
| Less than 60 | 02 | Less than 30 | C |



COURSE CONTENT

Module No. 1: Concept & Philosophical foundation of Communication

Understanding the concept of communication, evolution of communication, philosophical foundation of communication in ancient India.

Module No. 2: Definition, nature, and sphere of ethics

History or development of ethics, definition and nature of ethics, sphere of ethics, ethics: theory and practice.

Module No. 3: What is media ethics

Definition and sphere of media ethics, how media evolved through time.

Module No. 4: Five fundamental values of media

Honesty, Truth, Independence, Fairness, and Objectivity.

Module No. 5: Importance of media and media professionals

Importance and impact of media and media professional from social & ethical perspective.

Module No. 6: Forms of media

Print media, Electronic media and Internet.

Module No. 7: Ethical theories and their implementation to media

Virtue theory, Kantian theory and Consequential theory and their probable implementation in media ethics.

Module No. 8: Why ethics is important in the field of media

Some basic ethical norms or code of conduct of media, five key components of media, why ethics need to incorporate in the field of media.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJIA – 722143

(On NH-60)
P.O. - Mejia, Dist. - Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Web: www.kjrggdc.ac.in

Certificate course on Basic Computer Knowledge



Kabi Jagadram Roy Government General Degree College

On NH 60, Gopalpur, Vill+P.O.- Mejia, Bankura 722143, West Bengal, India

03241-250250 | kjrggdcmejia@gmail.com | <https://ggdcmejia.in>

Certificate Course
on

Basic Computer Knowledge

Organized by
Department of Mathematics
(In collaboration with IQAC)
[October 10-22, 2022]



Are you ready to embark on an exciting journey into the world of computers? Join us for a comprehensive 30-hour certificate course designed to equip you with the fundamental skills and knowledge needed to navigate the digital landscape with confidence and proficiency.



Course Duration: 10.10.2022 to 22.10.2022 (30 hours).

Number of Credits: 2

Course Fee: NIL

❖ Patron:

▪ **Prof. Alope Kumar Das**
Officer-in-Charge

▪ **Dr. Aresh Kumar Maji**
IQAC Coordinator

❖ Resource Person:

□ **Dr. Chinmay Das**, *Course Coordinator, Assistant Professor of Mathematics*

□ **Prof. Biswajit Bera**, *Joint Course Coordinator, Assistant Professor of Mathematics*

□ **Prof. MD Yasin Khan**, *Assistant Professor of Mathematics*



❖ **Course Overview:**

Are you ready to embark on an exciting journey into the world of computers? Join us for a comprehensive 30-hour certificate course designed to equip you with the fundamental skills and knowledge needed to navigate the digital landscape with confidence and proficiency.

❖ **Course Objectives:**

- *To introduce participants to the basic concepts of computing.*
- *To familiarize participants with essential software applications.*
- *To empower participants with practical skills for everyday computing tasks.*
- *To build confidence in using computers for personal and professional purposes.*

❖ **Course Outcomes:**

By the end of this course, participants will:

- *Understand the fundamental components and functions of a computer system.*
- *Gain proficiency in using common software applications such as Microsoft Word, Excel, and PowerPoint.*
- *Develop basic troubleshooting skills to resolve common computer issues.*
- *Navigate the internet safely and efficiently.*
- *Create and manage documents, spreadsheets, and presentations effectively.*

❖ **Evaluation Process:**

- *Continuous assessment through hands-on exercises and quizzes.*
- *Final project to demonstrate practical application of learned skills.*
- *Active participation and engagement in class activities.*

▪ **Grading:**

| | | | | | |
|---------------------------|------------|-------|-------|-------|--------------|
| Marks Obtained (%) | 80 & above | 60-79 | 40-59 | 30-39 | Less than 30 |
| Grade | A+ | A | B+ | B | C |



Course Content & Schedule

| Week | Date | Title | Duration | Resource Person |
|--------|------------|---|----------|-----------------|
| Week 1 | 10.10.2022 | <i>Introduction to Computers</i> | 3 hrs | CD |
| | 11.10.2022 | <i>Understanding computer hardware and software</i> | 3 hrs | CD |
| | 12.10.2022 | <i>Operating system basics</i> | 3 hrs | CD |
| | 13.10.2022 | <i>Microsoft Office Essentials</i> | 3 hrs | BB |
| | 14.10.2022 | <i>Word processing with Microsoft Word</i> | 3 hrs | MYK |
| | 15.10.2022 | <i>Spreadsheet management with Microsoft Excel</i> | 3 hrs | MYK |
| Week 2 | 17.10.2022 | <i>Presentation Skills</i> | 3 hrs | BB |
| | 18.10.2022 | <i>Creating dynamic presentations with Microsoft PowerPoint</i> | 3 hrs | MYK |
| | 19.10.2022 | <i>Internet Basics and Beyond</i> | 2 hrs | CD |
| | 20.10.2022 | <i>Navigating the web safely</i> | 2hrs | CD |
| | 21.10.2022 | <i>Email etiquette and management</i> | 2 hrs | CD |
| | 22.10.2022 | Evaluation/MCQ Test | | |



Enroll today and embark on your journey to computer literacy!



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJIA – 722143

(On NH-60)
P.O. - Mejia, Dist. - Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Web: www.kjrggdc.ac.in

Certificate course on Creative Writing

A Certificate
Course



Kabi Jagadram Roy Government General Degree College

On NH 60, Gopalpur, Vill+P.O.- Mejia, Bankura 722143, West Bengal, India

03241-250250 | kjrggdcmejia@gmail.com | <https://ggdcmejia.in>

Certificate Course
on
Creative Writing (সৃজনশীল লেখনী)

Organized by
Department of Bengali
(In collaboration with IQAC)
[September 15-October 3, 2022]

Course Duration: 15.09.2022 to 03.10.2022 (30 hours).
Intake Capacity: 20 Course Fee: NIL

❖ Patron

- Prof. Alope Kumar Das, *Officer-in-Charge*
- Dr. Asesh Kumar Maji, *IQAC Coordinator*

❖ Resource Person

- Dr. Indrani Hazra, *Assistant Professor (HoD), Department of Bengali*
- Dr. Kalyan Mukherjee, *Course Coordinator, Assistant Professor, Department of Bengali*
- Dr. Rabin Ghosh, *Joint Course Coordinator, Assistant Professor, Department of Bengali*



□ মূল প্রতিপাদ্য বিষয়

সৃজনশীল লেখনী অর্থাৎ কবিতা গল্প প্রবন্ধ ভ্রমণসাহিত্য বিনোদন প্রভৃতি বিষয়ে চর্চা।

□ বিষয়ের লক্ষ্য

ছাত্রছাত্রীদের মধ্যে মৌলিক ভাবনাচিন্তাকে জাগিয়ে দেওয়া।
পাঠক্রমের বাইরে নানা বিষয়ে ভাবতে সাহায্য করা। লেখার হাত শক্ত করা। সাহিত্য পাঠের পাশাপাশি সাহিত্যিক হতে চাওয়ার বাসনাকে জাগিয়ে তোলা। পরীক্ষার পড়ার বাইরে তাদের আনন্দ দিতে চাওয়া।

□ শিক্ষার ফলশ্রুতি

ছাত্রছাত্রীরা সাহিত্যের বিভিন্ন দিকে স্বতঃস্ফূর্তভাবে অংশগ্রহণ করবে।
কবিতা গল্প নাটক প্রবন্ধ নানারকম সৃজনশীল লেখাতে তারা পারদর্শী হয়ে উঠবে। তারা নিয়মিত চর্চা করার মধ্য দিয়ে সাহিত্যের মৌলিক দিক বিভিন্ন পত্রপত্রিকাতে মেলে ধরতে পারবে।

□ মূল্যায়ন পদ্ধতি

ক্লাসে কোর্স চলাকালীন প্রশ্নোত্তর করা। বিভিন্ন কবিতা অনুগল্প লিখে জমা দিতে বলা। কোর্স শেষে অতি সংক্ষিপ্ত প্রশ্নোত্তর-এর মধ্যে দিয়ে মূল্যায়ন করা।

| Marks Obtained (%) | 80 & above | 60-79 | 40-59 | 30-39 | Less than 30 |
|--------------------|------------|-------|-------|-------|--------------|
| Grade | A+ | A | B+ | B | C |



□ কোর্সের পাঠক্রম এবং
সময়সূচী

| সপ্তাহ | তারিখ | বিষয় | সময় | সম্পন্ন ব্যক্তি |
|--------------------|----------|---|---------|-----------------|
| প্রথম সপ্তাহ | ১৫/০৯/২২ | প্রবন্ধ লেখার খুঁটিনাটি দিক | ৩ ঘন্টা | ইন্দ্রাণী হাজরা |
| | ১৬/০৯/২২ | প্রবন্ধের বর্তমান হাল হকিকত | ৩ ঘন্টা | ইন্দ্রাণী হাজরা |
| | ১৭/০৯/২২ | কবিতা রচনার নানা দিক | ৩ ঘন্টা | কল্যাণ মুখার্জী |
| | ১৯/০৯/২২ | কবিতার সেকাল একাল | ৩ ঘন্টা | কল্যাণ মুখার্জী |
| দ্বিতীয় সপ্তাহ | ২২/০৯/২২ | গল্প এবং অনুগল্পের পার্থক্য | ৩ ঘন্টা | রবিন ঘোষ |
| | ২৩/০৯/২২ | গল্প লেখার ইতিহাস | ৩ ঘন্টা | রবিন ঘোষ |
| | ২৪/০৯/২২ | গল্প উপন্যাসের পার্থক্য, রচনার খুঁটিনাটি | ৩ ঘন্টা | রবিন ঘোষ |
| | ২৬/০৯/২২ | নাটক লেখার পদ্ধতি | ৩ ঘন্টা | রবিন ঘোষ |
| তৃতীয় সপ্তাহ | ২৮/০৯/২২ | নাটকের ইতিহাস ও বর্তমান কাল | ৩ ঘন্টা | কল্যাণ মুখার্জী |
| | ২৯/০৯/২২ | হাতে কলমে নাটক লেখা ও অভিনয় | ৩ ঘন্টা | কল্যাণ মুখার্জী |
| | ০৩/১০/২২ | মূল্যায়ন | | |



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJIA – 722143

(On NH-60)
P.O. - Mejia, Dist. - Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Web: www.kjrggdc.ac.in

Academic Year 2021-22



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJIA – 722143

(On NH-60)
P.O. - Mejia, Dist. - Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Web: www.kjrggdc.ac.in

Certificate course on Importance of Mathematics in Competitive Examinations

KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE

Certificate Course

on

“Importance of Mathematics in Competitive Examinations”

2022 (Summer Vacation)

Organized by

Department of Mathematics

(In collaboration with IQAC)

Course Organizing Committee

Prof. Alope Kumar Das (*Officer-in-Charge, KJRGDC, Mejia*)
Prof. Asesh Kumar Maji (*IQAC Coordination, Associate Professor, Department of Geology*)
Prof. Biswajit Bera (*Course Coordinator, Assistant Professor, Department of Mathematics*)
Prof. Avisek Sen (*Assistant Professor, Department of Commerce*)
Prof. Md Yasin Khan (*Assistant Professor, Department of Mathematics*)

Course Duration: 13.06.2022 to
25.06.2022 (30 hours)
Number of Credits: 2
Course Fee: NIL

MATHEMATICS
is not about
numbers, equations,
computations, or
algorithms:
it is about
UNDERSTANDING.

William Paul Thurston



About the Course: Our "Importance of Mathematics in Competitive Examinations" course is designed to boost your understanding and skills in key mathematical concepts. Why is this important? Many competitive exams, including SSC, PSC, UPSC, Bank, PO, and RRBs, require strong math skills. This course will equip you with the foundational knowledge and problem-solving techniques you need to excel in the quantitative sections of these examinations.

Course objective: The basic objective of the course are –

- To provide easy technique of solving mathematical problems for competitive examinations.
- Providing a solid understanding of fundamental mathematical concepts
- To develop fundamental arithmetic concepts like the concept of number, order, units of measurement, size and shape etc.
- Developing the ability to apply these concepts and solve problems encountered in competitive exams efficiently and accurately.

Course Content:

Basic Algebra: Number system, Ratio, Integer, H.C.F and L.C.M, Basic algebraic formula, Divisibility. [10hrs]

Arithmetic: Averages, Percentages, Time and Distance, Simple and Compound Interest, Profit and loss, etc. [10hrs]

Geometry: Point, Straight line, Triangle, Quadrilateral, Cube. [8hrs]

Statistic: Mean, Median, Mode [2hrs]

Learning Outcomes:

- Grasp concepts of fractions, decimals, and percentages.
- Solve problems involving ratios, proportions, and rate of interest.
- Recognize and understand basic algebraic expressions and formula.
- Work with geometric shapes and their properties (area, perimeter, volume).
- Analyse and break down complex mathematical problems into smaller, manageable steps.
- Apply relevant mathematical concepts and formulas to solve problems accurately
- Develop logical reasoning and critical thinking skills.
- Enhance your ability to approach and solve problems efficiently.
- Appreciate the relevance and importance of basic mathematics in various competitive exams and everyday life.
- Increase your confidence and test-taking ability in the quantitative sections of competitive exam.

Assessment and Certification: There would be an evaluative test of 50 marks (MCQ Test) at the end of the course. The students would get certificates on successfully completion of the course.

Grading:

| Marks obtained(%) | Grade | Marks obtained(%) | Grade |
|-------------------|-------|-------------------|-------|
| 80 & above | A+ | 30-39 | B |
| 60-79 | A | Less than 30 | C |
| 40-59 | B+ | | |



Certificate course on Non-conventional energy sources for modern world

**KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE,
MEJIA, BANKURA**

Certificate Course

On

“Non-conventional Energy Sources for Modern World”

Conducted by

Department of Physics & Department of Economics

(In association with IQAC)

Course outcome: To understand problems of conventional energy sources; To realize necessity of non-conventional energy sources; To understand basic ideas of Solar, Wind, Geothermal, Ocean, Biomass energy etc.

Participants: Undergraduate students of all the Departments are welcome!

Course duration: 1st-11th June, 2022 (30 hours of classes)

Resource Persons:

1. Dr. Arijit Chatterjee (Assistant Professor of Physics)
2. Mr. Debraj Das (Assistant Professor of Economics)
3. Mr. Atanu Das (Assistant Professor of Economics)

Grading:

| Total Marks Obtained in Attendance & MCQ Examination | Grade |
|--|----------------|
| Above 45 | A ⁺ |
| 41 to 45 | A |
| 36 to 40 | B ⁺ |
| 30 to 35 | B |
| Below 30 | C |



Course Content

| | |
|--|--------------|
| Unit 1 | 2 Hrs |
| Energy Resources- Non- Conventional Energy Sources- Renewable and Non-Renewable energy sources. | |
| Unit 2: Solar energy | 6 Hrs |
| Solar Energy, Solar Constant, Solar radiation measurements, Solar energy collector, Physical principle of the conversion of solar radiation in to heat, solar air heaters and drying, solar cookers, solar distillation, solar furnaces, solar greenhouses, solar power plants, solar photovoltaic cells | |
| Unit 3: Wind energy | 6 Hrs |
| Introduction, Utilization, Advantages and Disadvantages, Environmental impact, Sources/Origins of wind, conversion and wind power, components of wind energy conversion system, Advantages and Disadvantages of WECS, Power Plant, Wind Energy Economics, Problems in operating large wind power generators. | |
| Unit 4: Geothermal energy | 8 Hrs |
| Introduction, Important aspects, Structure of Earth's interior, Geothermal system- Hot Spring structure, Geothermal Resources (Hydrothermal, Geopressed, Petro-thermalsystem, Magma Resources), Advantages and disadvantages of geothermal energy over other energy forms, application of geothermal energy. Energy from biomass: Introduction to biomass, Biomass resource, Biomass Conversion process; Biogas Applications, Biogas Plants. | |
| Unit 5: Energy from Oceans and Thermal and Chemical effects | 8 Hrs |
| Ocean Energy, Ocean Energy Sources, Tidal energy, Components of a Tidal Power Plant, Economic aspects of tidal energy conversion, Wave energy, Advantages and disadvantages, Factors affecting Wave energy, Ocean Thermal Energy Conversion (OTEC), Working principle of OTEC, Types of OTEC, Advantages and Disadvantages and Applications of OTEC. Thermo-electric effects, Fuel Cells, Hydrogen energy, Nuclear Reactors, Advantages and Disadvantages of Nuclear power plants (Basic Principles/concepts only) | |

Other Details of the Course

| | | |
|--|---|---|
| Pedagogy | : | Chalk and Talk |
| Course Fee | : | Nil |
| Intake Capacity | : | 30 |
| Assessment Process / Evaluation Modalities | : | Attendance (10) and Examination (40) through MCQ |
| Rules and Regulations | : | 1. Scheduled written examination must be submitted. 2. Students must attend 60% of the classes |



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJIA – 722143

(On NH-60)
P.O. - Mejia, Dist. - Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Web: www.kjrggdc.ac.in

Certificate course on Understanding Earth and its processes

Kabi Jagadram Roy Government General Degree College, Mejia, Bankura

A Certificate Course
On
UNDERSTANDING EARTH AND ITS PROCESSES

Conducted by,
Department of Geology
(In association with IQAC)

[May 17-28, 2022]



“Geology is not just about rocks. It’s about understanding our planet, its processes, and our role in it”



- **Course objective:** Understanding mother Earth and its processes allows us to know our geological environments and events, to anticipate natural disasters and to raise a general awareness among ourselves towards correct practices for a better and sustainable earth.
- **Course outcome:** Upon completion of this course the students will be able to analyse the interactions between physical, chemical and biological processes that shape and define the earth system; correlate between the ancient Earth and its current changes; and develop effective communication skills to help diffusing major current environmental problems.
- **Intake capacity:** Around 20
- **Participants:** Under graduate students of all the disciplines are welcome!
- **Course duration:** May 17-28, 2022; Eleven (11) days; Thirty (30) hours
- **Patron:** Prof. Alope Kumar Das (Officer-in-Charge)
Dr. Asesh Kumar Maji (IQAC Coordinator)
- **Resource person:** Dr. Nivedita Chakraborty [NC](Course coordinator)
Ms. Indrani Mondal [IM] (Joint coordinator)
Dr. Asesh Kumar Maji [AKM] (HOD, Geology)
- **Course fee:** Nil
- **Assessment process:** Written Examination (MCQ) [25 Marks]
Group Seminar [15 Marks]
Attendance [10 Marks]
- **Grade Calculator:**

| Marks (out of 50) | Grade |
|-------------------|-------|
| 45-50 | A+ |
| 40-44 | A |
| 35-39 | B+ |
| 30-34 | B |
| 25-29 | C |
| 20-24 | C+ |

- **Reward:** A sense of perspective to understand that we are just a small part of a much larger, dynamic planet and we need to protect our habitat; Access of seminar library, Department of Geology.



SCHEDULE

| | Date | Module No. | Title | Duration (Hours) & Time | Resource Person |
|---------------|--------------|------------|--|---|-----------------|
| Week 1 | 17/05/2022 | 1 | Events in Earth's history-1 | 3hrs (11.00AM-02.00PM) | NC |
| | 18/05/2022 | 2 | Events in Earth's history-2 | 3hrs (11.00AM-02.00PM) | NC |
| | 19/05/2022 | 3 | Introduction of external processes | 3hrs (11.00AM-02.00PM) | NC IM |
| | 20/05/2022 | 4 | Introduction of internal processes | 3hrs (11.00AM-02.00PM) | IM AKM |
| | 21/05/2022 | 5 | Orogenic processes | 3hrs (11.00AM-02.00PM) | NC IM |
| Week 2 | 23/05/2022 | 6 | Hydrothermal and magmatic processes | 3hrs (11.00AM-02.00PM) | AKM NC |
| | 24/05/2022 | 7 | Earth surface processes | 3hrs (11.00AM-02.00PM) | NC IM |
| | 25/05/2022 | 8 | Anthropogenic processes | 5hrs (11.00AM-01.30PM & 02.00PM-04.30PM) | NC IM |
| | 26/05/2022 | | Written Examination | 1hrs (11.00AM-12.00 Noon) | |
| | 27/05/2022 | | Group Seminar | 3hrs (11.00AM-02.00PM) | |
| | 28/05/2022 | | Certificate distribution and valedictory session | 11.30 AM onwards | |
| | Total | | | | 30 hours |



COURSE CONTENT

Module No. 1: Events in Earth's history-1

Concept of universe and time; origin of Earth as a planet in the solar system and its working in primordial stage.

Module No. 2: Events in Earth's history-2

Concept of geological age; time scale- compressing the history of earth into a diagramme; evolution of Earth in terms of air, water and life with ages.

Module No. 3: Introduction of external processes

Exogenic forces- that occur on the Earth's surface; sedimentation and mass wasting; meteorite impact, glaciations

Module No. 4: Introduction of internal processes

Endogenic forces-that occur under the Earth's surfaces-plate movement, volcanism, earthquake, tsunami; impact of climate change on earth's processes

Module No. 5: Orogenic processes

Forces causing mountain building processes; formation of large mountain belts such as Himalayas- evidence of colliding continents, influence on regional climate change; prediction of hazards or disasters (slope failure, landslide, cloudburst, flash flood)

Module No. 6: Hydrothermal and magmatic processes

Sub-surface movement of hot water and its action at elevated pressure; geysers, fumaroles, hot springs; formation of rocks, minerals, crystals and ores

Module No. 7: Earth surface processes

Physical and chemical fluxes across the Earth's surface, and the resulting landscapes; rivers, lakes, oceans, karst (caves), coastlines; sediment-water interface; journey of sediments from source to sink; sea-level changes

Module No. 8: Anthropogenic processes

Pollution; Global warming; Wastage of water; Coastal erosion; Illegal mining; Unplanned construction; Release of industrial and radioactive waste



Suggested Reading:

1. Skinner, Brain, J., Porter, Stephen, G., 1995. The Blue Planet. John Wiley and Sons.
2. Rogers, John J.W., Santosh, M., 2004. Continents and Supercontinents. Oxford University Press.
3. Chatterjee, Sankar, 2019. From Stardust to First Cells – the Origin of Life, Elsevier.
4. Hugget, Richard John, Fundamentals of Geomorphology. Routledge, 2007.
5. Mahapatra, G. B., 2019. A Textbook of Geology.
6. Mukherjee, P.K., 2010. A Textbook of Geology. World Press.

Suggested Watching:

1. The Lost Worlds of Planet Earth. Ninth episode of the American documentary television series *Cosmos: A Spacetime Odyssey* (2014) narrated by Neil deGrasse Tyson.
2. <https://youtu.be/uLahVJNnoZ4>
3. <https://youtu.be/UvIDxu7twpc>
4. Movies: Journey to the centre of the Earth, San Andreas, Dante's peak, The Core, Volcano, Earthquake, Deep impact, Pompeii, The wave, The day after tomorrow, Ice age, Armageddon, Twister.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJIA – 722143

(On NH-60)
P.O. - Mejia, Dist. - Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Web: www.kjrggdc.ac.in

Certificate course on Economic Development and Demography

Kabi Jagadram Roy Government General Degree College
Department of Economics

Certificate Course
in
Economic Development and Demography
Brochure

| SL NO. | COURSE TITLE | CONTENT |
|--------|-------------------------------------|--|
| 1 | Demography and Economic Development | Population is closely associated with economic development of a society. Human capital embodied in population is pivotal in achieving targeted growth path for any economy. Its quality, quantity, distribution and movement may boost or dampen rate of economic progress. India is a young country with its median age of 28.4 which opens a window of demographic dividend. |
| 2 | Prerequisite | Students of Economics Honours as well as those students from other disciplines who are interested in studying Economics. |
| 3 | Course Objective | This ADD on Course to be conducted by Department of Economics, KJRGDC College will teach students how to measure different statistics related to demography, theoretical linkages between population and economic development. |
| 4 | Career prospect | The knowledge acquired by students through such a course would enable them to develop skills of measuring demographic variables and critically analyze current economic issues related to demography. |
| 5 | Faculty Requirements | Internal – Department of Economics |
| 6 | Pedagogy | Chalk and Talk with ICT enabled participatory pedagogy |
| 7 | Course Fee | NIL |
| 8 | Intake Capacity | 15 (All undergraduate students) |
| 9 | Contact Hours | 30 hours |
| 10 | Class Duration | One class: 1 hour |
| 11 | Course outcome | Students will develop basic knowledge in the field of 'Demography Studies'. |
| 12 | Assessment process | Students will be evaluated on the basis of Attendance & Multiple-Choice Questions test (MCQ). |



Course Content
Instructional Hours: 30 Hours

MODULE1: Basic Concepts and Indicators

- Introduction
- Vital Rates
- Measures of Fertility
- Measures of Mortality
- Population growth rate
- Age Pyramids, and Life Tables and their uses.

MODULE 2: Human Resources and Development

- Theory of Demographic Transition;
- Historical Trends
- Adjustment of Birth and Death Rates
- Household Choice Models
- Malthusian View
- Growth Impact
- Population and Environment
- Population and Innovation
- Markets and Inputs.

MODULE3 : Trends in Population and Population Policy in India

- Major demographic features of India's population
- Spatial, Age, Sex, Occupational Structure of Indian Population
- Birth rate, Death rate, Life Expectancy & Infant Mortality: Trends & Patterns
- Urbanization in India
- Components of Urban Population Growth
- Forces of Urbanization in the Developed and Developing countries

MODULE4 : Demographic Dividend in India

- Demographic Transition Process
- Age Structure and Working age population
- Demographic Window of Opportunity
- Opportunity and Challenges
- Age pyramid and Second demographic dividend



Certificate course on Beginners Photography

Kabi Jagadram Roy Government General Degree College, Mejia, Bankura
IQAC and Photography Club

Organizes

A Certificate Course
ON
BEGINNERS PHOTOGRAPHY
2021-22

Brochure

| Sl No. | Course Design | |
|--------|-------------------------|---|
| 1 | Context | <p>A beginner's photography course typically covers the fundamentals of photography, aiming to equip participants with essential knowledge and skills to start capturing images effectively. It often includes:</p> <ul style="list-style-type: none"> • Camera Basics: Understanding different types of cameras (DSLRs, mirrorless, point-and-shoot), their components, and how to operate them. • Composition: Exploring principles such as rule of thirds, leading lines, framing, and balance to create visually appealing images. • Lighting: Understanding natural and artificial light, techniques for using and manipulating light, and the importance of proper exposure. • Focus and Depth of Field: Mastering autofocus, manual focus, and understanding how aperture affects depth of field. • White Balance: Learning to adjust white balance settings to achieve accurate colors in different lighting conditions • Photography Styles and Genres: Exploring different types of photography such as landscape, portrait, street, wildlife, and macro photography. |
| 2 | Target Students | Present all under graduate students. |
| 3 | Course Objective | <p>The course objectives of a basic photography course typically include:</p> <ul style="list-style-type: none"> • Mastering Exposure: Gain proficiency in adjusting aperture, shutter speed, and ISO to achieve proper exposure and desired creative effects. • Exploring Composition Techniques: Understand and apply principles of composition such as rule of thirds, leading lines, and framing to create visually compelling images. • Utilizing Light: Learn to identify and work with different lighting conditions, including natural and artificial light, to enhance the quality of photographs. • Developing Focus and Depth of Field Skills: Master techniques for achieving sharp focus and controlling depth of field to create impactful images. |



| | | | | | |
|----|----------------------------|---|-------|--|----------------|
| 4 | Faculty Requirement | Internal & External | | | |
| 5 | Modern Pedagogy | In modern pedagogy, photography beginners courses incorporate a variety of innovative teaching methods and tools to enhance learning outcomes and engagement. Here are some elements of modern pedagogy applied in photography courses: <ul style="list-style-type: none">• Interactive Online Learning Platforms: Utilizing online platforms that offer interactive lessons, quizzes, and multimedia content to cater to different learning styles. These platforms may also include discussion forums and peer-to-peer learning opportunities.• Blended Learning Approaches: Combining traditional classroom instruction with online modules, workshops, and practical assignments to create a dynamic and flexible learning experience.• Project-Based Learning: Emphasizing project-based learning where students work on real-world photography projects, allowing them to apply theoretical knowledge in practical scenarios and develop their creative vision. | | | |
| 6 | Course Fee | Nil | | | |
| 7 | Intake Capacity | Around 20 | | | |
| 8 | Course Duration | 23 rd Dec, 2021 to 31 st Dec, 2021 (8 Days): 30 hours | | | |
| 9 | Assessment Process | 1. Attendance 2. Written Exam (MCQ) 3. Viva-voce | | | |
| 10 | Grading | Attendance (% age) | Marks | Total % age of marks obtained (as per Sl. No. 9) | Grade |
| | | 90 & above | 05 | 80 & above | A ⁺ |
| | | 80-89 | 04 | 60-79 | A |
| | | 70-79 | 03 | 40-59 | B ⁺ |
| | | 60-69 | 02 | 30-39 | B |
| | | Less than 60 | 00 | Less than 30 | C |



**DETAILED SYLLABUS OF THE CERTIFICATE COURSE:
2021-22**

A beginner's photography course typically covers the fundamentals of photography, aiming to equip participants with essential knowledge and skills to start capturing images effectively. It often includes:

- Camera Basics: Understanding different types of cameras (DSLRs, mirrorless, point-and-shoot), their components, and how to operate them.
- Composition: Exploring principles such as rule of thirds, leading lines, framing, and balance to create visually appealing images.
- Lighting: Understanding natural and artificial light, techniques for using and manipulating light, and the importance of proper exposure.
- Focus and Depth of Field: Mastering autofocus, manual focus, and understanding how aperture affects depth of field.
- White Balance: Learning to adjust white balance settings to achieve accurate colors in different lighting conditions

Photography Styles and Genres: Exploring different types of photography such as landscape, portrait, street, wildlife, and macro photography.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJA – 722143

(On NH-60)
P.O. - Mejia, Dist. - Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmeja@gmail.com
Web: www.kjrggdc.ac.in

Academic Year 2019-20



Certificate course on Investment and Banking

KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE, MEJIA, BANKURA

Certificate Course

On

“Investment and Banking”

Conducted by

Department of Commerce (Winter Recess, 2019)

(In association with IQAC)

Course objective: To enable the students to understand the management the excess fund of the household. The courses will enable the students to guide the other people to explore the investment opportunities and the banking system.

Course outcome: After completion of this course the students will be able to understand the various aspects of banking system in Indian scenario. They can be able to find the various ways to invest extra fund. The basics of the capital market lead to enhance the entrepreneurial ability of the students and earning opportunities.

Participants: Undergraduate students of all the Departments are welcome!

Course duration: Two weeks (30 hours)

Patron:

1. Prof. Alope Kumar das (office in Charge)
2. Dr. Asesh Kumar Maji, IQAC Cordinator.

Resource Person:

1. Avisek Sen (HOD, Commerce & Course-coordinator)
2. Debraj Das (Assistant Professor of Economics)
3. Atanu Das (Assistant Professor of Economics)



Other Details of the Course

| | | |
|--|---|--|
| Prerequisite of the Course | : | Students from various disciplines who are interested in studying Taxation |
| Pedagogy | : | Chalk and Talk |
| Course Fee | : | Nil |
| Intake Capacity | : | 15 |
| Assessment Process/ Evaluation Modalities | : | Seminar (10) and Examination (40) through MCQ Question (Full marks 50) 40-50 => A ⁺ 30-39 => A |
| Table for Qualification | : | 20-29 => B 10-19 => C 01-09 => D |
| Rules and Regulations | : | 1. Students must attend the scheduled written examination. 2. Students must attend 60% of the classes |

Course Content

- Module No. 1:** Basic of Investment Decision by an Individual.
- Module No. 2:** Banking system in India, Concept of RBI and Commercial Bank.
- Module No. 3:** Basic of financial system India, including the financial market and role of SEBI
- Module No. 4:** Concept of stock exchange, Stock index (BSE and NSE)
- Module No. 5:** Mutual fund conceptual
- Module No. 6:** Other financial institutions like LIC, HDFC, ICICI, NABARD.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJIA – 722143

(On NH-60)
P.O. - Mejia, Dist. - Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Web: www.kjrggdc.ac.in

Certificate course on Urbanization of Colonial Cities in West Bengal



*Kabi Jagadram Roy Government General Degree
College, Mejia, Bankura*

*Department Of History
(In association with IQAC)*

offers

Certificate Course on

Urbanization of Colonial Cities in West Bengal

2019-2020(Winter Recess)



I. BASIC DETAILS OF THE 30 HOURS CERTIFICATE COURSE

| SL NO. | TITLE | CONTENT |
|--------|-------------------------|--|
| 1. | Course Title | Department of History is conducting a Certificate Course on the topic “Urbanization of Colonial Cities in West Bengal” from 23.12.19 to 31.12.2019. |
| 2. | Context | Urbanization is a normal phenomenon of civilization. It is the process through which people from different areas agglomerate in a particular centre with certain facilities which are helpful for them to earn their livelihood mainly by non-agricultural activities. The common criteria of urbanization are the facility of good communication network with the outer world by means of transport and other media which helps in the establishment of a city or town as a commercial centre. During the colonial period the urbanization of various cities in west Bengal took place mainly through the hands of the Europeans. Bandel, Chinsurah, Chandernagore, Serampore, Calcutta those Hooghly River based cities were by and large guided by colonial attitude. The growth of urban environment in these cities made by different European companies like Portuguese, Dutch, French, Danish and British. The European powers came and settled here to reap the benefit of Indian merchandise. But finally, the English earned unquestioned supremacy over all the foreign competitors in the trade of Indian merchandise. |
| 3. | Pre-requisite | Under-Graduate students of any department |
| 4. | Course Objective | To preserve and expose the idea and character of urbanization of different cities of our state during colonial period. To evoke surprise and admiration by creating accessibility to their work, products, and minds. To promote the practice of science and other cultural activities. The course provides opportunities to the learners for higher studies in theoretical and applied Cultural |



| | | Studies, urban studies, demography studies, socio-political relation. | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|-----------------------------|--|----------------|-------|---------------------------|-------|-----------|----|------------|----|-------|----|-------|---|-------|----|-------|----|-------|----|-------|---|--------------|----|--------------|---|
| 5. | Career Prospect | The knowledge acquired by students through this course will enable them to pursue higher studies not only in the discipline of History but in several interdisciplinary subjects like Politics, Sociology and Economics. In a nutshell, the course would be befitting for students who want to pursue further research in this area. Hence, a career in academics is promising. Secondly, with increasing number of Companies going in for Corporate Social Responsibility, students who have completed this Course will have an edge over others in this field. | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. | Faculty Requirements | Internal – Department of History | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. | Pedagogy | Interactive Activity based on participatory pedagogy | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. | Course Fee | NIL | | | | | | | | | | | | | | | | | | | | | | | | |
| 9. | Intake Capacity | Around 20 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10. | Course Duration | 30 Hours | | | | | | | | | | | | | | | | | | | | | | | | |
| 11. | Course Outcome | This course will enable the students to understand the late medieval socio-political relation between Mughal rulers and European companies, local trade, social mobility, demographical change through these companies in a broader context. | | | | | | | | | | | | | | | | | | | | | | | | |
| 12. | Assessment Process | Students will be graded on course-end Assessment, Project work and Attendance. 1. Attendance (In-class participation) (10 Marks) 2. Written Exam (MCQ) (40 Marks) * Total Marks: 50 | | | | | | | | | | | | | | | | | | | | | | | | |
| 13. | Grading | <table border="1"> <thead> <tr> <th>Attendance (%)</th> <th>Marks</th> <th>Total % of Marks obtained</th> <th>Grade</th> </tr> </thead> <tbody> <tr> <td>90& above</td> <td>10</td> <td>80 & above</td> <td>A+</td> </tr> <tr> <td>80-89</td> <td>07</td> <td>60-79</td> <td>A</td> </tr> <tr> <td>70-79</td> <td>05</td> <td>40-59</td> <td>B+</td> </tr> <tr> <td>60-69</td> <td>03</td> <td>30-39</td> <td>B</td> </tr> <tr> <td>Less than 60</td> <td>02</td> <td>Less than 30</td> <td>C</td> </tr> </tbody> </table> | Attendance (%) | Marks | Total % of Marks obtained | Grade | 90& above | 10 | 80 & above | A+ | 80-89 | 07 | 60-79 | A | 70-79 | 05 | 40-59 | B+ | 60-69 | 03 | 30-39 | B | Less than 60 | 02 | Less than 30 | C |
| Attendance (%) | Marks | Total % of Marks obtained | Grade | | | | | | | | | | | | | | | | | | | | | | | |
| 90& above | 10 | 80 & above | A+ | | | | | | | | | | | | | | | | | | | | | | | |
| 80-89 | 07 | 60-79 | A | | | | | | | | | | | | | | | | | | | | | | | |
| 70-79 | 05 | 40-59 | B+ | | | | | | | | | | | | | | | | | | | | | | | |
| 60-69 | 03 | 30-39 | B | | | | | | | | | | | | | | | | | | | | | | | |
| Less than 60 | 02 | Less than 30 | C | | | | | | | | | | | | | | | | | | | | | | | |
| 16. | Course Coordinator | Prof. Samim Rahaman Molla (Head, Department of History) Prof. Pratim Basak (Faculty, Department of History) Prof. Shekhar Biswas (Faculty, Department of History) | | | | | | | | | | | | | | | | | | | | | | | | |

2. DETAILS SYLLABUS OF THE CERTIFICATE COURSE

3



| UNIT | TITLE | HOURS |
|---------|--|---------|
| UNIT 1 | The Concept of Urbanization | 2 Hours |
| UNIT 2 | Sources, Motives of Urbanisation during Colonial Period | 2 Hours |
| UNIT 3 | Urbanization of Hooghly (Porto Pequeno) as Portuguese colony | 2 Hours |
| UNIT 4 | Urbanization of Chinsurah under Dutch | 3 Hours |
| UNIT 5 | Urbanization of Chandernagore under French | 4 Hours |
| UNIT 6 | Urbanization of Serampore under Danish | 4 Hours |
| UNIT 7 | Urbanization of Calcutta under British. | 4 Hours |
| UNIT 8 | Colonial Architectures and Buildings of West Bengal | 3 Hours |
| UNIT 9 | Cultural Harmony and Conflict with Indigenous People | 2 Hours |
| UNIT 10 | Comparative Studies on Colonial aspects and Indian Aspects of Urbanization | 2 Hours |
| UNIT 11 | Discussion on Project Writings, Field Trip, Report Writings | 2 Hours |



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJIA – 722143

(On NH-60)
P.O. - Mejia, Dist. - Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Web: www.kjrggdc.ac.in

Certificate course on Literature and Environment

*Kabi Jagadram Roy Government General Degree College, Mejia,
Bankura*

Department of Bengali and Department of English (In association with IQAC)

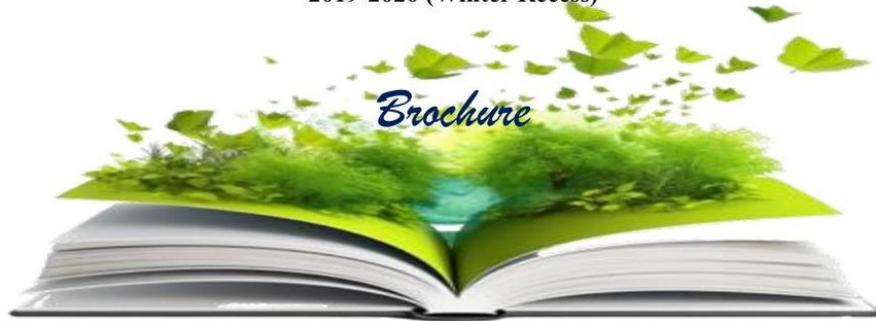
offer

Certificate Course

On

Literature and Environment

2019-2020 (Winter Recess)



Course Description: Knowledge is power. And it seems the more we know and learn about our environment, the more complex it becomes. But before we start our conversation about the many factors and complications of our environment, let's first begin with the environment. What comes to mind when we think of our environment? Is it our natural surrounding—whether our immediate area and region or our larger planet and astronomical space? Is it our intellectual realm? Is it our physical dwelling? Is it both? What about the importance of nature in our philosophical ideals and theories? As we ponder these questions, it also becomes clear that the environment—as complex as it is—is also quite simply beautiful. In this course, let's explore these ideas and notions together—the intricacies and nuances that make our environment and world beautiful. By voyaging through a wide range of literary texts from the rich repertoire of English and Bengali literature along with some critical texts, we will aim to discover a deeper understanding of our natural environment and what makes it uniquely, quintessentially, and incredibly spectacular. The course, therefore, would examine the intersections between literature (fiction, poetry and non-fiction) and the environment.

Course Objectives:

- To sensitise students to the contemporary crises of climate and environmental degradation from a multidisciplinary perspective.
- To sensitise them to environmental awareness and action.
- To enable them analyse and reflect on the reasons and results of environmental disasters designed by man, as projected in literature.
- To kindle in students an interest in literature and its role in anticipating, analysing and imagining alternatives to the emergent crises, as also as a tool of resistance and transformation in society and policy.



Course Outcomes:

- On successful completion of the course, students will learn to think about the resonant environmental issues of the day including that of climate disaster, from a multidisciplinary perspective.
- They would learn to link the environmental crises especially in the global South to its historico-political moorings, gearing them to take corrective community-engaged action in sustainable living.
- The course is designed to inspire students to apply their literary-theoretical understanding of environmental issues to diverse real-life situations and community-oriented fields of praxis.
- It would prepare them as Indian citizens of the planet, aware of and ready to engage with the looming environmental crises from a multidisciplinary paradigm, enhancing their employability across sectors as also their desire to empathise, intervene and serve.

Patron: Prof. Alope Kumar Das (Officer-in-Charge), Dr. Aresh Kumar Maji (IQAC Coordinator)

Faculty Requirement: Internal (Department of Bengali and Department of English)

Dr. Indrani Hazra (Course Coordinator, Assistant Professor of Bengali)

Ms. Sutista Ghosh (Joint Course Coordinator, Assistant Professor of English)

Mr. Debesh Mondal (Assistant Professor of Bengali)

Dr. Kalyan Mukhopadhyay (Assistant Professor of Bengali)

Course Fee: NIL

Target Students: Current under-graduate students from any discipline.

Intake Capacity: Around 30

Course Duration: 30 Hours, 7 days (Winter Recess, 2019)

Assessment Process: 1. Attendance (In-class participation) (10 Marks)

2. Written Exam (MCQ) (40 Marks)

* Total Marks: 50

Grading:

| Attendance (%) | Marks | Total % of marks obtained in written exam | Grade |
|----------------|-------|---|-------|
| 90 & above | 10 | 80 & above | A+ |
| 80-89 | 07 | 60-79 | A |
| 70-79 | 05 | 40-59 | B+ |
| 60-69 | 03 | 30-39 | B |
| Less than 60 | 02 | Less than 30 | C |



DETAILED SYLLABUS OF THE CERTIFICATE COURSE

UNIT-1:

Introduction [TIME: 3 HOURS]

Ecocriticism: An Introduction

UNIT-2:

Theoretical Conceptualisations [TIME: 10 HOURS]

Ecofeminism (পরিবেশ নারীবাদ), Deep Ecology, Environmental justice (পরিবেশগত ন্যায়বিচার),
Environmental ethics (পরিবেশ নীতিশাস্ত্র), Wilderness, Apocalypse, Animal Studies

UNIT-3:

Ecology and Literature: Reading Literary Texts [TIME: 13 HOURS]

William Wordsworth: “Tintern Abbey”, “The World is Too Much With Us”

Ralph Waldo Emerson: “The Humble-bee”

Philip Larkin: “Going, Going”

G.M. Hopkins: “Binsey Poplars”

A.K Ramanujan: “Flowering Tree”

Amitav Ghosh: Excerpts from *The Hungry Tide*

রবীন্দ্রনাথ ঠাকুর : ‘ছুটি’

রবীন্দ্রনাথ ঠাকুর : ‘মুক্তধারা’

রবীন্দ্রনাথ ঠাকুর : ‘বলাই’

বিভূতিভূষণ বন্দ্যোপাধ্যায় : ‘আরণ্যক’

জীবনানন্দ দাশ : ‘ক্যাম্পে’

জীবনানন্দ দাশ : ‘শিকার’

UNIT-4:

Ecology and Literature: Reading Critical Texts [TIME: 4 HOURS]

Amitav Ghosh: “Monstrous Gaia” from *The Nutmeg’s Curse* (pp. 85-98)

Ramachandra Guha: “The Southern Challenge” [Chapter 6]: The Environmentalism of the Poor” from *Environmentalism: A Global History* (pp. 136-170)

Aldo Leopold: “Thinking Like a Mountain”, “The Ecological Conscience”, “Substitutes for a Land Ethic,” from *A Sand County Almanac: With Essays on Conservation from Round River* (pp. 137-140, pp. 243-245 and pp. 246-251).



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJIA – 722143

(On NH-60)
P.O. - Mejia, Dist. - Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Web: www.kjrggdc.ac.in

Certificate course on the topic of Cultural Heritage of India



**KABI JAGADRAM ROY GOVERNMENT GENERAL
DEGREE COLLEGE, MEJIA, BANKURA**

DEPARTMENT OF HISTORY

Offers

Certificate Course on

Cultural Heritage of India



I. BASIC DETAILS OF THE CERTIFICATE COURSE

| SL NO. | TITLE | CONTENT |
|--------|---------------------|--|
| 1. | Course Title | Department of History is conducting a Certificate Course on the topic “Cultural Heritage of India” from 14.10.2019 to 26.10.2019 . |
| 2. | Context | The plurality and multiplicity of the Indian Culture is evident to the whole World as India has one of the world's largest collections of songs, music, dance, theatre, folk traditions, performing arts, rites and rituals, languages, dialects, paintings and writings that are known, as the 'Intangible Cultural Heritage' |
| 3. | Pre-requisite | All Under-Graduate students |
| 4. | Course Objective | To preserve and expose the cultural heritage of our ancestors and teachers. To evoke surprise and admiration by creating accessibility to their work, products, and minds. To promote the practice of science and other cultural activities. The course provides opportunities to the learners for higher studies in the area of theoretical and applied Cultural Studies, Peace, Conflict Management, Social Regeneration focusing on women upliftment and rural regeneration. |
| 5. | Career Prospect | The knowledge acquired by students through this course will enable them to pursue higher studies not only in the discipline of History but in several interdisciplinary subjects like Philosophy, Politics, Sociology and Economics. Many aspects of cultural influence have remained untold in English and Bengali literatures. In a nutshell, the course would be befitting for students who want to pursue further research in this area. Hence, a career in academics is promising. Secondly, with increasing number of Companies going in for Corporate Social Responsibility students who have completed this Course will definitely have an edge over others in this field. |
| 6. | Faculty Requirement | Internal – Department of History |
| 7. | Pedagogy | Interactive Activity based on participatory pedagogy |
| 8. | Course Fee | NIL |
| 9. | Intake Capacity | Around 20 |
| 10. | Course Duration | 30 hours |
| 12. | Course Outcome | This course will enable the students to understand the songs, music, dance, theatre, folk traditions, performing arts, rites and rituals, languages, dialects, paintings and writings in a broader context, the scope of which is limited in the Under Graduate CBCS Course of UGC. |



| | | | | | |
|-----|--------------------|--|-------|---|----------------|
| 13. | Assessment Process | Students will be graded on course -end Assessment, Project work and Attendance 1. Attendance (In-class participation) (06 Marks) 2. Written Exam (MCQ) (44 Marks) * Total Marks: 50 | | | |
| 14. | Grading | Attendance (% age) | Marks | Total % age of marks obtained (as per Sl. No. 13) | Grade |
| | | 90& above | 06 | 80 & above | A ⁺ |
| | | 80-89 | 05 | 60-79 | A |
| | | 70-79 | 04 | 40-59 | B ⁺ |
| | | 60-69 | 03 | 30-39 | B |
| | | Less than 60 | 00 | Less than 30 | C |

2. DETAILS SYLLABUS OF THE CERTIFICATE COURSE

| UNIT | TITLE | DURATION |
|---------|---|----------|
| UNIT 1 | The Concept of Indian Cultural Heritage | 3 Hours |
| UNIT 2 | Variation in Indian Languages and Heritage | 3 Hours |
| UNIT 3 | Some Aspects of Indian Philosophy | 3 Hours |
| UNIT 4 | Indian Religion | 3 Hours |
| UNIT 5 | Principles of Indian Art, Culture, Architecture, and Painting | 3 Hours |
| UNIT 6 | Variations in Indian Dance, Music, Drama: Classical & Folk | 2 Hours |
| UNIT 7 | The Development of Sciences | 2 Hours |
| UNIT 8 | Society: Our Social Heritage | 2 Hours |
| UNIT 9 | Indian Culture: Fundamental Features, and Value | 3 Hours |
| UNIT 10 | The Indian Renaissance | 3 Hours |
| UNIT 11 | Colonial Influence and Views of Foreign Scholars on India | 2 Hours |



Certificate course on Basics of Taxation

KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE, MEJIA, BANKURA

Certificate Course

On

“Basics of Taxation”

Conducted by

Department of Commerce (Puja Vacation, 2019)

(In association with IQAC)

Course objective: To enable the students to understand the nature, evolution, and importance of tax regime in Indian Scenario and it will lead to enhance the job applicability of the students.

Course outcome: After completion of this course the students will be able to understand the basic idea of taxation system in Indian scenario. They will also understand the fact that, the tax system in India and the effect of that system in day to day life. In spite of that they can help other person to understand the taxation system.

Participants: Undergraduate students of all the Departments are welcome!

Course duration: Two weeks (30 hours)

Patron:

1. Prof. Alope Kumar das (Officer in Charge)
2. Dr. Aresh Kumar Maji, IQAC Coordinator.

Resource Person:

1. Avisek Sen (HOD, Commerce & Course-coordinator)
2. Dr. Aindrila Biswas (Assistant Professor of Commerce)
3. Debraj Das (Assistant Professor of Economics)
4. Atanu Das (Assistant Professor of Economics)



Other Details of the Course

| | | |
|--|---|--|
| Prerequisite of the Course | : | Students from various disciplines who are interested in studying Taxation |
| Pedagogy | : | Chalk and Talk |
| Course Fee | : | Nil |
| Intake Capacity | : | 15 |
| Assessment Process / Evaluation Modalities | : | Seminar (10) and Examination (40) through MCQ Question (Full marks 50) |
| | | 40-50 => A ⁺ |
| | | 30-39 => A |
| Table for Qualification | : | 20-29 => B |
| | | 10-19 => C |
| | | 01-09 => D |
| Rules and Regulations | : | 1. Students must attend the scheduled written examination. 2. Students must attend 60% of the classes |

Syllabus

Module No. 1: Basic of Taxation Policy in India, including the ideas of key concept of taxation

Module No. 2: Macro economical background of taxation theories

Module No. 3: Basic of Direct Taxation Policy in India,

Module No. 4: The procedure and assessment of Income tax (some specific areas)

Income from Salary, House Property, Deduction u/s 80

Module No. 5: Basics of Indirect Taxes including Goods and Services Tax 'GST'



Detailed Syllabus

| Sl no | Date | Topic | Speaker | Duration |
|-------|------------|---|----------------------|----------|
| 1 | 14.10.2019 | Basic of Taxation Policy in India, including the ideas of key concept of taxation | Avisek Sen | 4 hrs |
| 2 | 15.10.2019 | Macro economical background of taxation theories part 1 | Debraj Das | 3 hrs |
| 3 | 16.10.2019 | Macro economical background of taxation theories part 2 | Atanu Das | 3 hrs |
| 4 | 17.10.2019 | Basic of Direct Taxation Policy in India, including the ideas of key concept of indirect tax | Dr. Aindrilla Biswas | 4 hrs |
| 5 | 18.10.2019 | The procedure and assessment of Income tax (some specific areas) Section 2,16,17,24,10 (some basic areas) | Avisek Sen | 3 hrs |
| 6 | 19.10.2019 | The procedure and assessment of Income tax (some specific areas) Section 80 (some basic areas) | Dr. Aindrilla Biswas | 3 hrs |
| 7 | 21.10.2019 | The procedure and assessment of Income tax (some specific areas) Assessment Procedure | Avisek Sen | 3 hrs |
| 8 | 22.10.2019 | Basics of Indirect Taxes including Goods and Services Tax 'GST' | Dr. Aindrilla Biswas | 3 hrs |
| 9 | 23.10.2019 | Student Seminar | | 3 hrs |
| 10 | 24.10.2019 | Written Examination | | 1hr |
| 11 | 24.10.2019 | Certificate distribution and valedictory session | | - |
| Total | | | | 30 hrs |

Suggested Reading:

1. Taxation I by Mundra and Mundra
2. Taxation II by Mundra and Mundra
3. Taxmann's Students' Guide to Income Tax Including GST by Sinhaia



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJIA – 722143

(On NH-60)
P.O. - Mejia, Dist. - Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Web: www.kjrggdc.ac.in

Certificate course on Geology for Everyone

Kabi Jagadram Roy Government General Degree College, Mejia, Bankura

DEPARTMENT OF GEOLOGY

(In accordance with IQAC)

Organizes

A Certificate Course

On

"GEOLOGY FOR EVERYONE"

(30/09/2019 - 01/10/2019)

&

(01/11/2019 - 08/11/2019)

"Every day we are bombarded with information about what is happening on the surface of the Earth. But about the Earth itself, we know very little, other than to report about an earthquake or to try to find out more about a mineral resource. We could almost forget that the Earth is a rocky planet subject to very specific natural laws and that it has shaped our history. Those who know it best are the geologists who survey and examine it."

Course objective:

This course is an introduction to Geology topics through the history of planet Earth. It is aimed at giving the student knowledge of 'why and how we know what we know in Earth Science'.

Course outcome:

- ✓ Learn about the history and workings of planet Earth.
- ✓ Learn about global phenomena, rocks, crystals, plate tectonics, geologic time, and how rocks form.
- ✓ Learn how geology influences everything from the shape of the landscape to natural events (often called disasters.)

Course duration:

From 30/09/2019 to 01/10/2019 and 01/11/2019 to 08/11/2019; total ten days (30 hours).

Participants:

Interested under graduate students of all the disciplines are invited to join. This course is intended for the beginners, intermediate students as well as common people.

Patron:

Sri Alope Kumar Das (Officer-in-Charge); Dr. Aresh Kumar Maji (IQAC Coordinator)

Resource person:

Dr. Aresh Kumar Maji (Course coordinator)

Course fee: Nil

Assessment process: Written Examination, Viva voce, Attendance



COURSE SCHEDULE

| Date | Unit No. | Title | Duration (Hours) & Time |
|------------|---|--|--|
| 30/09/2019 | 1 | Introduction to Geology | 3hrs (11.00AM-2.00PM) |
| 01/10/2019 | 2 | Earth's materials, minerals and rocks | 4hrs (11.00AM-1.00PM & 1.30PM-3.30PM) |
| 01/11/2019 | 3 | Structures found in Igneous, Sedimentary and Metamorphic rocks | 4hrs (11.00AM-1.00PM & 1.30PM-3.30PM) |
| 02/11/2019 | 4 | Basic idea of Earth's internal processes | 4hrs (11.00AM-1.00PM & 1.30PM-3.30PM) |
| 03/11/2019 | 5 | Study of rock strata | 4hrs (11.00AM-1.00PM & 1.30PM-3.30PM) |
| 04/11/2019 | 6 | Evolution of life and fossil record | 4hrs (11.00AM-1.00PM & 1.30PM-3.30PM) |
| 05/11/2019 | 7 | Earth and its resources | 4hrs (11.00AM-1.00PM & 1.30PM-3.30PM) |
| 06/11/2019 | Written Examination | | 2hrs (11.00AM-1.00PM) |
| 07/11/2019 | Viva voce | | 1hrs (11.00AM-12.00 Noon) |
| 08/11/2019 | Distribution of participation certificate | | 11.00AM onwards |
| | | Total | 30 hours |



COURSE CONTENT

Unit No. 1: Introduction to Earth System Science

Definitions, Scope and brief history of the subject of Geology

Unit No. 2: Earth's materials, minerals and rocks

Broad chemical groups of minerals; classification of rocks: igneous rocks, sedimentary rocks and metamorphic rocks- major types, their megascopic and microscopic characters (mineral assemblage and texture)

Unit No. 3: Structures found in Igneous, Sedimentary and Metamorphic rocks

Attitudes of planes and lines; extrusive and intrusive igneous rock bodies, lava flows, sills, dykes, batholiths; Bed, stratification, cross beds, ripple marks, graded beds, repetitive beds; folds, joints, foliation, lineation, fault, unconformity.

Unit No. 4: Basic idea of Earth's internal processes

Magmatism and metamorphism; layered structure of earth (evidence from seismic waves); concepts of continental drift, sea-floor spreading and plate tectonics; relative motion of plates, plate map of the earth; relation of volcanism and earthquake with plate tectonics; major tectonic units and their geological character: mid-oceanic ridges, subduction zones, trenches, island arcs, hot spots; idea of Wilson cycle

Unit No. 5: Study of rock strata

Study of natural stratification involving assessment of time and space; stratigraphic principles, their applications and limitations; basic idea on litho, bio and chronostratigraphy; stratigraphic correlation; Walther's law; brief description of important stratigraphic sequences of India

Unit No. 6: Evolution of life and fossil record

Origin of life; story of evolution spanning over 3 billion years; fossils as evidence of past life; modes of preservation of fossils; uses of fossils in understanding evolution of life in geological time.

Unit No. 7: Earth and its resources

Definition of economic mineral; ore, protore, gangue; distribution of major metal deposits of India; brief description of major fossil fuel deposits of India; brief idea on nuclear fuel.

Suggested Reading:

1. Mukherjee, P.K., 2010. A Textbook of Geology. World Press.
2. Mahapatra, G. B., 2019. A Textbook of Geology.