

JESUS TRAINING COLLEGE, MALA

An ISO 9001: 2015 certified Institution

Affiliated to University of Calicut, Recognized by NCTE

Syllabus for VAC



PAPERS FOR VAC

JTCVAC-01 COMMUNICATIVE ENGLISH

JTCVAC-02 DISASTER MANAGEMENT

JTCVAC-03 INNOVATIVE TEACHING STRATEGIES

**JTCVAC-05 ECO FRIENDLY ENVIRONMENT AND SUSTAINABLE
DEVELOPMENT**

JTCVAC-04 ICT IN TEACHING-LEARNING PROCESS

JTCVAC-01 COMMUNICATIVE ENGLISH

Instruction Hours: 30

Course Learning Outcome

1. Improved speaking, listening, reading, and writing skills in English.
2. Better understanding and use of grammar and vocabulary.
3. Increased confidence in using English in various situations.
4. Awareness of cultural aspects related to English communication.
5. Practical skills for everyday communication (phone calls, emails, etc.).
6. Improved listening comprehension abilities.
7. Enhanced writing proficiency for essays, reports, etc.
8. Developed presentation and public speaking skills in English.
9. Encouraged critical thinking through discussions.
10. Preparation for language proficiency exams if applicable.

COURSE CONTENT

Module 1

Listening and Reading Skills

Listening strategies, viewing movie clips, participation in debates, having conversations
Understanding main ideas and supporting ideas, reading of textual material.

Module 2

Writing in Everyday Life

Tone, purpose editing, proofing, practicing effective writing Using dictionary, thesaurus
Preparation of paragraphs, letters-formal and informal, e-mails, notices, summary etc.

Module 3

Vocabulary and Pronunciation

Introduction to formal language, uses of phrases, idioms, proverbs and quotes Use of
colloquial languages, slang Applied phonetics, vowels and consonants.

Module 4

Communication

Self-introduction, presentation skills, interview preparation, conversation techniques,
group discussions, resume preparation

Module 5

Practice in Remedial Grammar

Nouns verbs, subject verb agreement, tenses, parts sentence, punctuation, direct and reported speech, active and passive voice.

MODE OF TRANSACTION

Lecture method, discussion, seminars, symposium, face to face communication, IT based learning, blended learning.

JTCVAC-02 DISASTER MANAGEMENT

This syllabus and learning outcomes are designed to provide the public with essential knowledge and practical skills to effectively manage and respond to disasters, enhancing their safety and resilience.

Course Learning Outcomes (CLOs)

By the end of this course, participants will be able to:

1. **Understand** the key concepts and terminology in disaster management.
2. **Identify** different types of disasters and their impacts on communities.
3. **Analyze** the disaster management cycle and its phases: preparedness, response, recovery, and mitigation.
4. **Develop** a basic disaster response plan for a community or organization.
5. **Evaluate** case studies of past disasters to identify lessons learned and best practices.

Method of Instruction: Discussion, Project works, Web based learning

Assessment Methods

- Participation in discussions and activities
- Group project: Disaster response plan
- Final reflective essay on course learning

Course Syllabus

Week 1: Introduction to Disaster Management (6 hours)

- **Session 1 (2 hours):** Overview of disaster management
 - Definitions and key terms
 - Importance of disaster management
- **Session 2 (2 hours):** Types of disasters
 - Natural vs. man-made disasters
 - Case studies of major disasters
- **Session 3 (2 hours):** Impact of disasters on communities
 - Social, economic, and environmental impacts

Week 2: Disaster Management Cycle (6 hours)

- **Session 4 (2 hours):** Phases of the disaster management cycle
 - Preparedness, response, recovery, and mitigation
- **Session 5 (2 hours):** Risk assessment and management
 - Identifying hazards and vulnerabilities
- **Session 6 (2 hours):** Planning and preparedness
 - Developing preparedness plans and training programs

Week 3: Response and Recovery (6 hours)

- **Session 7 (2 hours):** Emergency response operations

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- Roles and responsibilities of agencies and organizations
 - **Session 8 (2 hours):** Recovery strategies
 - Short-term vs. long-term recovery
 - **Session 9 (2 hours):** Community involvement and resilience
 - Building community capacity and resilience

Week 4: Case Studies and Practical Applications (6 hours)

- **Session 10 (2 hours):** Analysis of past disasters
 - Lessons learned from specific case studies
- **Session 11 (2 hours):** Group activity: Develop a disaster response plan
 - Collaborate on creating a response plan for a hypothetical disaster
- **Session 12 (2 hours):** Presentation and discussion of group plans
 - Share and critique disaster response plans

Week 5: Emerging Trends and Challenges (6 hours)

- **Session 13 (2 hours):** Technology in disaster management
 - Use of GIS, social media, and data analytics
- **Session 14 (2 hours):** Climate change and its impact on disasters
 - Understanding the evolving nature of disasters
- **Session 15 (2 hours):** Course review and evaluation
 - Reflect on key learnings and discuss future applications

JTCVAC-03 INNOVATIVE TEACHING STRATEGIES

This syllabus is designed to enhance teaching effectiveness through innovative strategies, focusing on active learning, student engagement, and the integration of technology. The course is divided into 10 sessions, each lasting 3 hours.

Session 1: Introduction to Innovative Teaching

- Objective: Understand the importance of innovative teaching strategies.
- Activities:
 - Overview of traditional vs. innovative teaching methods.
 - Discussion on the impact of innovative teaching on student engagement.
- Reading: Articles on the shift from traditional to innovative teaching.

Session 2: Active Learning Techniques

- Objective: Explore active learning methods.
- Activities:
 - Hands-on activities: jigsaw puzzles, group discussions, and role-playing.
 - Reflection on the effectiveness of active learning.
- Reading: Techniques for implementing active learning in the classroom.

Session 3: Inquiry-Based Learning

- Objective: Implement inquiry-based learning strategies.
- Activities:
 - Designing inquiry-based lessons.
 - Case studies on successful inquiry-based projects.
- Reading: Benefits and challenges of inquiry-based learning.

Session 4: Technology Integration

- Objective: Learn to integrate technology effectively.
- Activities:
 - Workshop on using digital tools for teaching (e.g., interactive platforms).
 - Group project: Create a lesson plan incorporating technology.
- Reading: Overview of educational technology tools.

Session 5: Differentiated Instruction

- Objective: Understand and apply differentiated instruction.
- Activities:
 - Strategies for accommodating diverse learning styles.
 - Create learning stations for different skill levels.
- Reading: Differentiated instruction techniques and their applications.

Session 6: Cooperative Learning

- Objective: Utilize cooperative learning strategies.
- Activities:
 - Implementing the jigsaw method and peer teaching.
 - Discussing the benefits of collaborative learning.
- Reading: The role of cooperative learning in student success.

Session 7: Problem-Based Learning (PBL)

- Objective: Explore the principles of PBL.
- Activities:
 - Develop a PBL unit based on real-world problems.
 - Group presentations on PBL experiences.
- Reading: The impact of PBL on critical thinking skills.

Session 8: Assessment and Feedback

- Objective: Learn innovative assessment techniques.
- Activities:
 - Designing formative and summative assessments.
 - Peer feedback sessions to enhance learning.
- Reading: Innovative assessment strategies and their effectiveness.

Session 9: Creating an Inclusive Classroom

- Objective: Strategies for inclusivity in the classroom.
- Activities:
 - Discussing the importance of cultural responsiveness.
 - Creating lesson plans that cater to all learners.
- Reading: Approaches to foster an inclusive learning environment.

Session 10: Reflection and Future Directions

- Objective: Reflect on learning and plan for future implementation.
- Activities:
 - Group discussions on key takeaways.
 - Action plans for implementing innovative strategies in participants' own classrooms.
- Reading: Future trends in education and innovative teaching.

JTCVAC-04 ICT IN TEACHING-LEARNING PROCESS

This syllabus is designed to help teachers effectively integrate Information and Communication Technology (ICT) into their teaching practices. The course is divided into 10 sessions, each lasting 3 hours.

Session 1: Introduction to ICT in Education

- Objective: Understand the importance and benefits of using ICT in teaching and learning.
- Activities:
 - Discussion on the role of ICT in enhancing student engagement and learning outcomes.
 - Exploration of various ICT tools and their applications in education.
- Reading: Articles on the impact of ICT on teaching and learning.

Session 2: Integrating ICT into Lesson Planning

- Objective: Learn how to incorporate ICT into lesson plans effectively.
- Activities:
 - Hands-on activities: designing ICT-based lesson plans.
 - Peer feedback and discussion on lesson plan effectiveness.
- Reading: Best practices for integrating ICT into lesson plans.

Session 3: Using Presentation Tools

- Objective: Explore the use of presentation tools to enhance teaching.
- Activities:
 - Workshop on creating engaging presentations using various tools.
 - Peer presentations and feedback.
- Reading: Guidelines for effective use of presentation tools in the classroom.

Session 4: Collaborative Learning with ICT

- Objective: Understand how ICT can facilitate collaborative learning.
- Activities:
 - Group projects using online collaboration tools.
 - Discussion on the benefits of collaborative learning using ICT.
- Reading: Case studies on successful implementation of collaborative learning using ICT.

Session 5: Flipped Classroom Approach

- Objective: Learn the flipped classroom approach and its implementation using ICT.
- Activities:
 - Creating video lessons and assigning them as homework.
 - In-class activities focused on application and discussion of concepts.
- Reading: Advantages and challenges of the flipped classroom approach.

Session 6: Formative Assessment with ICT

- Objective: Explore the use of ICT for formative assessment.
- Activities:
 - Creating quizzes and games for formative assessment.
 - Analyzing assessment data to inform teaching practices.
- Reading: Effective strategies for formative assessment using ICT.

Session 7: Differentiated Instruction with ICT

- Objective: Understand how ICT can support differentiated instruction.
- Activities:
 - Designing learning activities catering to diverse learning styles.
 - Exploring adaptive learning platforms and their applications.
- Reading: Techniques for differentiated instruction using ICT.

Session 8: Inclusive Education with ICT

- Objective: Learn how ICT can promote inclusive education.
- Activities:
 - Exploring assistive technologies for students with special needs.
 - Discussing strategies for creating inclusive learning environments using ICT.
- Reading: Case studies on inclusive education using ICT.

Session 9: Digital Citizenship and Safety

- Objective: Understand the importance of digital citizenship and online safety.
- Activities:
 - Discussion on digital citizenship and responsible use of technology.
 - Exploring strategies for promoting online safety in the classroom.
- Reading: Guidelines for promoting digital citizenship and online safety.

Session 10: Reflection and Future Directions

- Objective: Reflect on learning and plan for future implementation of ICT in teaching.
- Activities:
 - Group discussions on key takeaways and challenges.
 - Action plans for integrating ICT into participants' own teaching practices.
- Reading: Future trends and best practices in ICT-enabled education.

JTCVAC-05 ECOFRIENDLY ENVIRONMENT AND SUSTAINABLE DEVELOPMENT

MODULE 1 (6 Hr)

1. Essential Knowledge About Environment

- Introduction to Environmental Studies
- Ecosystems and Biodiversity
- Natural Resources Management
- Environmental Policy and Governance
- Sustainable Living and Lifestyle

2. Key Concept Determining Environment.

- Geographical Factors
- Human Factors
- Biological Factors

3. Organism And Environment

- Introduction to Organism-Environment Interactions
- Types of Interactions
- Adaptations and Evolution
- Environmental Factors and Organism Responses

4. Man Made Environment

- Introduction to Human-Made Environments
- Historical Development of Human-Made Environments
- Environmental Impact of Human-Made Environments
- Sustainable Design Principles and Practices

5. Earth As The Home Of Life.

- Earth's Physical Systems
- Interconnectedness of Earth's Systems
- Diversity of Life on Earth

MODULE II (6 Hr)

1. Ecosystem

- Introduction to Ecosystems
- Ecosystem Processes
- Ecosystem Types

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- Ecosystem Management and Conservation

2. Abiotic Factors

- Introduction to Abiotic Factors
- Light and Temperature
- Water and Soil
- Topography and Atmospheric Gases

3. Biotic Factors

- Producers and Primary Production
- Consumers and Food Webs
- Decomposers and Nutrient Cycling
- Symbiotic Relationships and Interactions

4. Man And Ecosystem

- Historical Development of Human-Environment Interactions
- Ecosystem Services and Human Benefits
- Human Impact on Ecosystems
- Humans as a Component of the Biosphere

MODULE III (6 Hr)

1 Environmental Equilibrium

- Introduction to Environmental Equilibrium
- Components of Environmental Equilibrium
- Human Impact on Environmental Equilibrium
- Sustainable Development and Environmental Equilibrium

2 Meaning Definition

- Definition and Meaning of Environmental Equilibrium
- Factors Affecting Environmental Equilibrium

3 Importance Of Equilibrium

- Ecosystem Services and Biodiversity
- Human Health and Well-being
- Economic Stability and Sustainability
- Climate Change and Sustainable Development

4 Maintenance Of Environmental Equilibrium

- Introduction to Maintaining Environmental Equilibrium
- Roles and Responsibilities
- Strategies for Maintenance
- Solutions for Maintenance

MODULE IV (6 Hr)

1 Experiments And Activities To Facilitate Teaching Of Environmental Education

- Water Quality Testing
- Soil Erosion Experiment
- Endangered Species Simulation
- Climate Change Model
- Environmental Debate
- Eco-Art Project

2 Studying Local Environment

- Neighborhood nature walks
- Water quality testing in nearby streams or lakes
- Waste management assessment in the community
- Interviews with local environmental stakeholders
- Participatory mapping of local environmental assets and challenges
- Development of a community environmental action plan

3 Understanding Environment And Environmental Problems

- Define the environment and its components.
- Identify and describe environmental problems such as pollution, climate change, and biodiversity loss.
- Analyze the causes and effects of environmental problems.
- Examine the impact of human activities on the environment.
- Evaluate the role of individual and collective actions in addressing environmental problems.

4 Environmental Actions

- Individual environmental actions: lifestyle changes, consumer choices.
- Community-based environmental actions: local initiatives, grassroots movements.
- Environmental activism: campaigns, advocacy, policy change.
- Conservation efforts: protected areas, species conservation.
- Sustainable development: balancing economic, social, and environmental needs.

MODULE V (6 Hr)

1. Environment Friendly Product Paper bag

- Introduction to sustainable packaging and paper bags
- Designing sustainable paper bag prototypes

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- Production processes and materials used in paper bag manufacturing
 - Environmental impact and life cycle assessment of paper bags

2. Doormat

- Introduction to sustainable home essentials and doormats
- Designing sustainable doormat prototypes
- Production processes and materials used in doormat manufacturing
- Environmental impact and life cycle assessment of doormats

3. Cloth Bag

- Introduction to sustainable fashion and cloth bags
- Designing sustainable cloth bag prototypes
- Production processes and materials used in cloth bag manufacturing
- Environmental impact and life cycle assessment of cloth bags