



RAMAKRISHNA MISSION VIVEKANANDA CENTENARY COLLEGE

(An Autonomous College under West Bengal State University)

**P.O. RAHARA, KOLKATA-700118
WEST BENGAL, INDIA**

Centre with Potential for Excellence (CPE)
**DBT Star College
DST FIST awarded College**

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Annual Report of the Value-added Courses



2021-2022


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1. Name of the Course: Sri Ma Sarada Devi and women Empowerment

Course Code: VAC-5.1

Session: 2021-2022

Course started and ended: 1st August 2021 to 31st October 2021

Duration of the course: 30 hrs

No. of students enrolled: 74


No. of students completed: 74

Course Content:

- The Phases of Feminism
- Feminism in India
- 'Shakti' as the Symbol of Feminism
- The Holy Mother—The Personification of Shakti
- Spiritual Feminism
- Sri Ma Sarada Devi- meeting point of east and west
- Sri Ma Sarada Devi- According to eastern and western devotees
- Women monastic organization – Sara Math

Course Outcome:

- Sri Ma Sarada Devi and her personality
- Women empowerment in Indian context
- Role of mother in India
- The words of eastern and western devotees about Sri Ma Sarada Devi


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2. Name of the Course: Life and message of Sri Ramakrishna

Course Code: VAC-5.2

Session: 2021-2022

Course started and ended: 1st November 2021 to 31st December 2022

Duration of the course: 31 hrs

No. of students enrolled: 78

No. of students completed: 78

Course Content:

- Early Life
- Arrival at Dakshineswar and spiritual journey
- Sri Ramakrishna – practice all faiths
- Kesab Chandra Sen and other prominent personalities attracted towards Sri Ramakrishna
- Young Intellectuals be the disciples of Sri Ramakrishna
- His message to the world

Course Outcome:

- Inspiring boyhood
- Truth in daily life
- Human being for originality
- Enlighten citizenship
- True spirituality
- Personality and its effect



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3. Name of the Course: Life and message of Swami Vivekananda

Course Code: VAC-5.3

Session: 2021-2022

Course started and ended: 1st January 2022 to 31st January 2022

Duration of the course: 36 hrs

No. of students enrolled: 26

No. of students completed: 26

Course Content:

- Important events in the childhood
- Student life of Swami Vivekananda
- Meeting with Sri Ramakrishna
- Travelled all over India
- Chicago Parliament of Religion and world mission .
- His message to India and her people
- Establishment of Ramakrishna Mission

Course Outcome:

- Character building in student life
- Goal of students' life
- Service to man, service to God
- Love for Country
- Love for Indian Culture and Traditions


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4. Name of the Course: My plan of Campaign: Swami Vivekananda

Course Code: VAC-5.4

Session: 2021-2022

Course started and ended: 1st August 2021 to 31st October 2021

Duration of the course: 34 hrs

No. of students enrolled: 52


No. of students completed: 52

Course Content:

- Reform of society according to Swami Vivekananda
- Buddhism and its role in India
- True reformers of India
- Backbone of India is spirituality
- Three things necessary for ideal patriotism

Course Outcome:

- Swami Vivekananda and contemporary India
- Ideal of our nation
- Backbone of our nation
- Qualities required for serving nation


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5. Name of the Course: Future of India according to Swami Vivekananda

Course Code: VAC-5.5

Session: 2021-2022

Course started and ended: 1st January 2022 to 31st March 2022

Duration of the course: 32 hrs

No. of students enrolled: 31


No. of students completed: 31

Course Content:

- The common ground in India is religion.
- Spirituality for common people
- No difference between northern and southern people
- Caste system in India prevalent due to difference in occupation
- The idea is raising the lower up to the level of the higher
- Future of India on good organizational power
- Spreading spiritual and secular education to the nation

Course Outcome:

- Spirituality in life
- Unification idea as nation
- Process of development
- Learning team spirit


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- Proper education

6. Name of the Course: Course on Pranayama

Course Code: VAC-5.6

Session: 2021-2022

Course started and ended: 1st August 2021 to 31st October 2021

Duration of the course: 34 hrs

No. of students enrolled: 29


No. of students completed: 28

Course Content:

- What is pranayama?
- How to practice pranayama
- Benefits of practicing Pranayama
- Methods of learning Pranayama
- Four aspects of pranayama
- The five types of prana
- Neurological and physiological benefits of pranayama
- Relevance of pranayama in modern life

Course Outcome:

- Good health
- Control mind


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- Alertness
- Improve life style in present day

7. Name of the Course: Ethical values in Gita

Course Code: VAC-5.7

Session: 2021-2022

Course started and ended: 1st November 2021 to 31st December 2021

Duration of the course: 32 hrs

No. of students enrolled: 31


No. of students completed: 30

Course Content:

- Karma Yoga according to Gita.
- Sva-dharma or own duty
- .Ethical leadership according to Gita
- 4 management principles-mind, self, duty and relationship
- Good qualities vs. bad qualities
- Relation of individual and collective
- Relation of inner and external world

Course Outcome:

- Attachment and detachment practice
- Work according own nature
- Self restrained life
- Imbibe good qualities


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- Eco-friendly living

8. Name of the Course: Bioinformatics and applications

Course Code: VAC-4.8

Session: 2020-2021

Course started and ended: 1st January 2021 to 31st March 2021

Duration of the course: 34 hrs

No. of students enrolled: 30

No. of students completed: 30

Course Content:

- Bioinformatics in basic genomic and molecular biology research.
- Molecular medicine
- Gene therapy
- Drug development
- Microbial genome applications
- Waste cleanup and climate change study
- Crop improvement
- Comparative Studies

Course Outcome:


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- Computational study of gene
- Theoretical study about drug design
- Disease dynamics
- Climate change modeling
- Crop mapping region wise

9. Name of the Course: Chemistry of Buffer Solution

Course Code: VAC-5.9

Session: 2021-2022

Course started and ended: 1st August 2021 to 31st October 2021

Duration of the course: 32 hrs

No. of students enrolled: 47

No. of students completed: 46

Course Content:

- What is buffer solution
- Types of Buffer Solution
- Mechanism of buffer action
- Preparation of buffer solution
- Uses of Buffer Solutions
- Buffer action living world

Course Outcome:

- Regulation of pH in human blood
- Enzyme regulation and pH
- Dyeing fabric


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- Printing technology
- Alcohol industry and other household products

10. Name of the Course: Environmental water sources and diarrhea

Course Code: VAC -5.10

Session: 2021-2022

Course started and ended: 1st January 2022 to 31st January 2022

Duration of the course: 30 hrs

No. of students enrolled: 27

No. of students completed: 27

Course Content:

- Global access to drinking water supplies.
- Faecal contamination
- Household water treatment
- Burden of diarrhoeal disease from inadequate drinking water
- Global sanitation practice
- . Integrated water, sanitation and hygiene interventions
- . Trends, other estimates and non-diarrhoeal WASH-related illness

Course Outcome:

- Cleanliness


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- Health and hygiene system
- Role of good sanitation
- Integrated management
- Household practice

11. Name of the Course: LaTeX for scientific documentation

Course Code: VAC-5.11

Session: 2021-2022

Course started and ended: 1st February 2022 to 31st March 2022

Duration of the course: 31 hrs

No. of students enrolled: 84

No. of students completed: 84

Course Content:

- Functionality and usage
- Key features about LATEX
- Technical Importance of Latex
- Mathematical typesetting
- Graphics, tables and files inclusion
- Processing LATEX document

Course Outcome:

- Typesetting practice
- Insertion of graphics and tables in the running files
- Skill of writing the scientific articles

- Handling different Latex files
- Idea about Unix system

12. Name of the Course: Scientometric data analysis

Course Code: VAC-5.12

Session: 2021-2022

Course started and ended: 1st February 2022 to 31st March 2022

Duration of the course: 36 hrs

No. of students enrolled: 52

No. of students completed: 50

Course Content:

- Scientometric Analysis, Mapping and
Visualisation Software
- Purpose analysis
- Databases for Scientometric Analysis
- Google Scholar and its coverage
- Web of Science and its coverage
- Popular Scientometric Analysis, Mapping and
Visualisation Softwares

Course Outcome:

- studies of various aspects of a specific scholarly knowledge domain.
- Analyse the literature published in particular
- Used to know the time and geographic region of publication
- . Identify prolific countries/ major contributors to particular subject
- To know the important journals in a particular subject
- To identify the key authors, institutions and articles in particular subject area.

13. Name of the Course: Origin of life and Astrobiology

Course Code: VAC-5.13

Session: 2021-2022

Course started and ended: 1st February 2022 to 31st March 2022

Duration of the course: 34 hrs

No. of students enrolled: 73

No. of students completed: 73

Course Content:

- The nature of astrobiology
- The conditions on earth when life began
- How does life begin and evolve?
- What is life's future on earth and beyond?
- The terrestrial biosphere
- Determine what makes the planet habitable
- Perspective on current origins research



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Course Outcome:

- The full range of habitable environments on our own planet
- Essential knowledge for judging the frequency of habitable planets
- Catalog of possible signatures of life in other planet
- The ecosystems respond to environmental change
- Astrobiology research and microbial world

14. Name of the Course: Plagiarism in scholarly publication

Course Code: VAC-5.14

Session: 2021-2022

Course started and ended: 1st October 2021 to 31st October 2021

Duration of the course: 32 hrs

No. of students enrolled: 25

No. of students completed: 25

Course Content:

- Types of plagiarism
- Accidental or unwitting plagiarism
- Self-plagiarism
- Some other forms of plagiarism
- How plagiarism is detected?
- Plagiarism and Academia

Course Outcome:

- Different types of plagiarism
- The process of avoiding plagiarism
- Idea of proper citation
- Plagiarism detection software and its function

15. Name of the Course: Basic Knowledge on Python & its Applications

Course Code: VAC-5.15

Session: 2021-2022

Course started and ended: 1st October 2021 to 31st October 2021

Duration of the course: 34 hrs

No. of students enrolled: 49

No. of students completed: 49

Course Content:

- What is Python?
- Why learn Python?
- AI and machine learning
- Data analytics
- Data visualization
- Web development
- Language development

- Finance development

Course Outcome:

- Built a simple game
- Create a simple Python calculator
- Write quiz
- Built an alarm clock

16. Name of the Course: Letters of Swami vivekananda

Course Code: VAC-5.16

Session: 2021-2022

Course started and ended: 1st December 2021 to 31st December 2021


Duration of the course: 32 hrs

No. of students enrolled: 35

No. of students completed: 33

Course Content:

- Letters to important people in India before 1893
- Letters to monastic brothers before 1893
- Letters to disciples and devotees in India after 1893
- Letters to important people in India after 1893
- Letters to monastic brothers after 1893
- Letters to western devotees


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Course Outcome:

- Vast knowledge of scriptures
- Love for country
- Love for youth in India
- Sri Ramakrishna and his teachings
- Idea about establishment of Ramakrishna Mission

17. Name of the Course: Inspired talks by Swami Vivekananda

Course Code: VAC-5.17

Session: 2021-2022

Course started and ended: 1st December 2021 to 31st December 2021

Duration of the course: 34 hrs

No. of students enrolled: 30

No. of students completed: 30

Course Content:

- Discussion about Yoga
- Discussion about Atman
- Discussion about Buddha and Buddhism
- Discussion about various upanishads
- Power of concentration


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Course Outcome:

- Idea about real nature of man
- Basic idea about Yoga
- Karmayoga and its goal
- Purity of mind
- True teacher

18. Name of the Course: The Vedanta in all its phases by Swami

Vivekananda

Course Code: VAC-5.18

Session: 2021-2022

Course started and ended: 1st December 2021 to 31st December 2021

Duration of the course: 32 hrs

No. of students enrolled: 35

No. of students completed: 35

Course Content:

- This Vedanta, the philosophy of the Upanishads
- Philosophy of Sankara and Ramanuja
- The ideas in Gita
- The authority of Upanishads
- Power of concentration

Course Outcome:

- Idea about real nature of man
- Basic idea about vedanta
- Karmayoga in Gita
- Main them of Upanishads
- Vedanta in life

19. Name of the Course: The women of India by Swami Vivekananda

Course Code: VAC-5.19

Session: 2021-2022

Course started amd ended: 1st December 2021 to 31st December 2021

Duration of the course: 32 hrs

No.of students enrolled: 30

No. of students completed: 30

Course Content:

- Women in Vedic and Upanishadic period
- Ideal of Indian women
- On equality and freedom
- Women as Motherhood
- The upliftment of Indian women

Course Outcome:

- Unique role of women in Indian
- Spreading of education to all women
- Motherhood
- Freedom for growth

20. Name of the Course: Food Chemistry and Nutrition

Course Code: VAC-5.20

Session: 2021-2022

Course started and ended: 1st December 2021 to 31st December 2021

Duration of the course: 35 hrs

No. of students enrolled: 30

No. of students completed: 30

Course Content:

- History of Food Chemistry
- Functions of Food Chemistry
- Chemical Composition of Foods

- Quality Changes in Foods
- Safety Evaluation of Foods
- Waste management of food

Course Outcome:

- Role food in body
- Metabolism of food
- Adulteration in food items
- Food waste management
- Organic farming