

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

Website: rkmvccrahara.org

Email: rkmvccollege@rkmvccrahara.org

ANNUAL REPORT OF THE VALUE-ADDED COURSES

Rahara 118 E

2020-2021

Principal
Ramakrishna Mission
Vivekanarida Centenary College
Rahara, Kolkata-700 118

1. Name of the Course: Yogic Shatkarma / Yogic cleaning practices

Course Code:

VAC-4.1

Session:

2020-2021

Course started amd ended: 1st August 2020 to 31st October 2020

Duration of the course:

32 hrs

No.of students enrolled:

265

No. of students completed: 265

Course Content:

- Importance of Shatkarma
- Shatkarma In Hatha Yoga Pradipika
- Shatkarma In Gheranda Samhita
- Dhauti Cleansing of Digestive Tract
- Basti Cleansing of Large Intestine
- Neti Cleansing of Nasal Passages
- Trataka Cleansing of Eyes
- Nauli Cleansing of Abdominal Organs
- Kapalbhati Cleansing of Frontal Lobes
- · Precautions of Shatkarma

Course Outcome:

- The mind and its control
- Healthy practice in day to day life
- Perfection and fulfillment in work
- Decision making capacity

Ramakrishna Mission Vivekananda Centenary College Rahara, Kolkata-700 118

2. Name of the Course: Rajayoga and role of concentration

Course Code:

VAC-4.2

Session:

2020-2021

Course started amd ended: 1st November 2020 to 31st December 2020

Duration of the course:

32 hrs

No.of students enrolled:

82

No. of students completed: 82

Course Content:

- Yama Self-control
- Niyama- Discipline
- Asana Physical exercises
- Pranayama Breath exercises
- Pratyahara Withdrawal of the senses from external objects
- Dharana Concentration
- Dhyana Meditation
- Samadhi Complete Realisation

Course Outcome:

- Idea Truthfulness
- Non-Stealing approach
- Character building in life
- Contentment in life
- Self Control
- Concentration of mind

Vivekanarida Centenary College Rahara, Kolkata-700 118

3. Name of the Course: Machine Learning and its application

Course Code:

VAC-4.3

Session:

2020-2021

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

Duration of the course:

30 hrs

No.of students enrolled:

69

No. of students completed: 69

Course Content:

- Machine Learning Basics
- Python Programming
- Statistics Fundamentals
- Data Analysis
- Data Visualization.
- Non-Parametric & Parametric Learning
- Feature Engineering, Decision Tree, Ensemble Techniques, Support Vector Machine, Naive-Bayes, Dimension Reduction

Course Outcome:

- **Business Use Cases**
- Market-Basket Analysis
- Hyper parameter tuning in different Classification
- Multilabel ranking metrics

Ramakrishna Mission Vivekananda Centenary College Rahara, Kolkata-700 118

4. Name of the Course: Yoga and Youth of India

Course Code:

VAC-4.4

Session:

2020-2021

Course started and ended:

1st August 2020 to 31st October 2020

Duration of the course:

31 hrs

No.of students enrolled:

85

No. of students completed: 85

Course Content:

- Basic idea about yoga
- Meditation in students life
- Four yoga described in Gita
- Yoga in professional life
- Entrepreneurship through yoga

Course Outcome:

- Health development
- Future plan
- Psychological boosting
- Success in life

Principal Ramakrishna Mission Vivekananda Centenary College Rahara, Kolkata-700 118

5. Name of the Course: Water its role in life and science

Course Code:

VAC-4.5

Session:

2020-2021

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

Duration of the course:

36 hrs

No.of students enrolled:

26

No. of students completed: 26

Course Content:

- The molecular Make-up of water.
- Water support cellular structure
- Chemical reactions of water
- · Water clustering
- Water and protein structure
- Water and nucleic acid structure

Course Outcome:

- Universal solvent
- Role of water in life process
- Unique structure of water
- Clustering role
- Property of water

Principal Ramakrishna Mission Vivekananda Centenary College Rahara, Kolkata-700 118

6. Name of the Course: Computing Technology

Course Code:

VAC-4.6

Session:

2020-2021

Course started amd ended: 1st August 2020 to 31st October 2020

Duration of the course:

34 hrs

No. of students enrolled:

63

No. of students completed:

63

Course Content:

- Computer Hardware
- Computer Software
- An Introduction To Computer Technology
- Computer Networks
- How software is made
- Requirements Analysis and Program Specification
- Software design
- User Interface Design
- Coding and software validation
- Recent applications

Course Outcome:

- Knowledge about computer
- Software design techniques
- Application based software design

Ramakrishna Mission Vivekanarida Centenary College Rahara, Kolkata-700 118

Role of software in every field

7. Name of the Course: Abiotic Stresses in Agriculture

Course Code:

VAC-4.7

Session:

2020-2021

Course started amd ended: 1st November 2020 to 31st December 2020

Duration of the course:

32 hrs

No.of students enrolled:

65

No. of students completed:

Course Content:

Stress - Definitions.

- Classification Of Stresses
- . Abiotic stresses
- Major Abiotic Stresses Limiting Crop Yield
- Effects of drought stress on crops
- Mitigation of Drought Stress
- Flooding and other stresses
- Crop varieties evolved with improved abiotic stress tolerance

Course Outcome:

- Role abiotic stress in crop production
- Stress tolerant crop production
- Stress mapping and estimation
- Transfer of knowledge to farmers

Ramakrishna Mission Vivekanarida Centenary College Rahara, Kolkata-700 118

Proper use of the lands

8. Name of the Course: Gut Microbiome, Brain and Behaviour

Course Code:

VAC-4.8

Session:

2020-2021

Course started amd ended: 1st january 2021 to 31st March 2021

Duration of the course:

34 hrs

No. of students enrolled:

72

No. of students completed: 72

Course Content:

Gut-Brain axis.

The GUT Microbiome: The alteration throughout life

The Microbiota GUT-Brain Axis

- Modulation of mammalian behavior by GUT Microbiota
- Depression and anxiety
- **Stress**
- Cognition

Course Outcome:

- Role of GUT Microbiome
- Relation with behavior
- Stress and its modulation
- Cognition modulation
- Modulation in other behavior

Vivekananda Centenary College Rahara, Kolkata-700 118

9. Name of the Course: Pandemic and mental wellbeing

Course Code: VAC-4.9

Session: 2020-2021

Course started amd ended: 1st August 2020 to 31st October 2020

Duration of the course: 32 hrs

No.of students enrolled: 61

No. of students completed: 61

Course Content:

- Prevalence of Mental Illness and Substance Use Disorder during the Pandemic
- Adults Experiencing Job Loss or Income Insecurity during pandemic
- Parents and Children
- Essential Workers and mental health
- Policy Responses and Considerations
- Looking Ahead

Course Outcome:

- Keep informed the local condition
- Have a routine
- Minimize newsfeeds
- Screen time is important

Principal
Ramakrishna Mission
Vivekanarida Centenary College
Rahara, Kolkata-700 118

Not discriminate

10. Name of the Course: Safety protocol during Covid-19

Course Code:

VAC -4.10

Session:

2020-2021

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

Duration of the course:

34 hrs

No.of students enrolled:

33

No. of students completed:

Course Content:

- Stay aware of the latest COVID-19 information by regularly checking updates from WHO in addition to national and local public health authorities.
- Keep yourself and others safe
- Wear a mask properly
- Make your environment safer
- What to do if you feel unwell
- How COVID-19 infects people
- COVID-19 symptoms and flu
- Health Care

Course Outcome:

Cleanliness

Principal Ramakrishna Mission Vivekanarida Centenary College Rahara, Kolkata-700 118

- Social distancing
- Good routine
- Physical exercise
- COVID-19 symptoms

11. Name of the Course: Epidemiology and Mathematics

Course Code:

VAC-4.11

Session:

2020-2021

Course started amd ended: 1st February 2021 to 31st March 2021

Duration of the course:

32 hrs

No. of students enrolled:

28

No. of students completed:

Course Content:

- Some History
- The beginnings of compartmental models
- Stochastic Models
- Developments in compartmental models
- The infection age epidemic models
- The Endemic disease models

Course Outcome:

- Epidemiological situations
- Epidemiological situations
- Heterogeneity of mixing in a single location
- Contact rates decreasing in time
- Behavior of people during a disease outbreak

Principal Ramakrishna Mission Vivekananda Centenory College Rohora, Kalkata-700 118