# Department of Physics (Aided) Dwaraka Doss Goverdhan Doss Vaishnav College

# **Triple Helix- Report**

# (Affiliated to VIgyan Prasar NETwork of Science Clubs)

### (Upgraded as Bronze Club)

Club ID: VP-TN0081 Club Name: TRIPLE HELIX Name of the Coordinator: Dr.D.Uthra

**Report Type: - Monthly ---- Quarterly --- Half Yearly -- ! Annual** 

Period of Report: June 2021- April 2022

### **Activities Performed:**

# **ACTIVITY 1**

- 1. Name of the event ASTEROID DAY-ONLINE PICTURE QUIZ 2. Date 29/06/2021 TO 04/07/2021
- 3. Venue DEPARTMENT OF PHYSICS
- 4. Mode ONLINE
- 5. Organizers DEPT. OF PHYSICS in Collaboration with Asteroid Foundation, Luxembourg
- 6. Faculty coordinator Dr.V.SANGEETHA
- 7. No. of student participants 480 school & college students
- 8. Detailed Report of the Programme

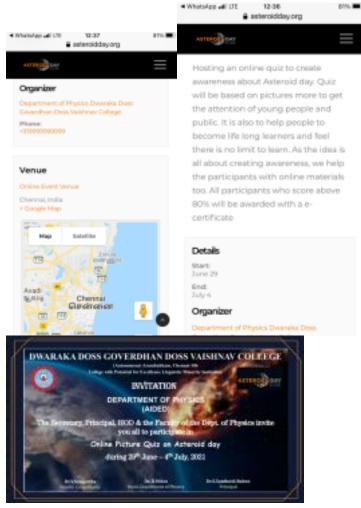
International asteroid day is observed on June 30<sup>th</sup> every year and is a United Nations recognized campaign to raise awareness of asteroids, their potential threat to our planet and the scientific secrets that can be discovered by studying them. This day is observed to inspire, engage and educate the people about asteroid opportunities and risks. This year's International Asteroid Day marks the 113th anniversary of the largest recorded asteroid impact that took place near the Tunguska River in Russia's Siberia.

As a part of this awareness program, TRIPLE HELIX SCIENCE CLUB of Department of Physics (Aided), Dwaraka Doss Goverdhan Doss Vaishnav College, Arumbakkam, Chennai has organized an online picture quiz in collaboration with Asteroid Foundation, Luxembourg to spread awareness about the asteroids and their impact on earth.

As many as 480 participants from various schools, colleges and also the general public actively participated in this online quiz program.

9. Outcome of the programme/event

This is an initiative of our Department to help school and college students and the general public to have basic knowledge about asteroids and their impact. Through this initiative we believe we can promote lifelong learning opportunities for all under SDG goals.



# **ACTIVITY 2**

1. Name of the event Building ICT Skill Series – Virtual Geological Dating

- 2. Date 23/09/2021
- 3. Venue DEPARTMENT OF PHYSICS
- 4. Mode ONLINE
- 5. Organizers DEPARTMENT OF PHYSICS
- 6. Faculty coordinator Dr. D. SRIDEVI & Ms. POURKODEE D 7. No. of

student participants 41 Students

# 8. Detailed Report of the Programme

Triple Helix Science Club - Department of Physics (Aided) has organized Building ICT Skill Series, Virtual Dating - The Virtual Courseware Project from **California State University.** This Virtual Courseware produces interactive, online simulations for the life science laboratory or for earth science field studies. The activities are designed to enhance an existing curriculum and include online assessments. *Virtual Dating* is an interactive Web based activity designed to introduce the user to the concepts of how geologists and archeologists determine the ages of rocks and ancient artifacts.

**41 students of III B.Sc. Physics took part in this web based activity on 23.09.21**. Each of them took part in this activity to apply their knowledge – to collect data, estimate, analyze,

improvise, calculate, compare and find the result. Upon completion of this activity successfully our students were given the opportunity to receive a personalized **Certificate as ''Isochron option of the Virtual Dating''** from the **California State University.** In order to get this certificate, each of them had to make careful measurements throughout the activity, which is personalized. It was indeed a very proud moment for the students and our department in using ICT tools and learn from international projects and explore beyond our boundaries!

### 9. Outcome of the programme/event

This is an initiative of our Department to help our students to learn the basic knowledge about the ages of rocks and ancient artifacts. Through this initiative we believe that our students can improvise the knowledge on earth science and geophysics.



### 10. Photos

# **ACTIVITY 3**

1. Name of the event Building ICT Skill Series - Virtual Seismologist

- 2. Date 23/09/2021
- 3. Venue DEPARTMENT OF PHYSICS
- 4. Mode ONLINE
- 5. Organizers DEPARTMENT OF PHYSICS
- 6. Faculty coordinator Dr. V.RENGANAYAKI
- 7. No. of student participants 15 Students
- 8. Detailed Report of the Programme

Triple Helix Science Club - Department of Physics (Aided) has organized Building ICT Skill Series, Virtual Seismologist - The Virtual Courseware Project from **California State University.** This Virtual Courseware produces interactive, online simulations for the life science laboratory or for earth science field studies. The activities are designed to enhance an existing curriculum and include online assessments. *Virtual Earthquake* is an interactive Webbased activity designed to introduce the user to the concepts of how an earthquake EPICENTER is located and how the RICHTER MAGNITUDE of an earthquake is determined.

15 students of II B.Sc. Physics took part in this online learning on 23.09.2021. Each of them took part in this activity to apply their knowledge – to collect data, estimate, analyse, improvise, calculate, compare and find the result. Upon completion of this activity successfully our students were given the opportunity to receive a personalized **Certificate as a ''Virtual Seismologist''** from the **California State University.** In order to get this certificate, each of them had to make careful measurements throughout the activity, which is personalized. It was indeed a very proud moment for everyone of them and our Department in using ICT tools and learn from international projects and explore beyond our boundaries!

9. Outcome of the programme/event

This is an initiative of our Department to help our students to learn the basic knowledge about the location and the significance of the epicentre during the earthquake. Through this initiative we believe that our students can improvise the knowledge on earth science and Seismology.

### 10. Photos





### **ACTIVITY 4**

1. Name of the event National Level Webinar Series -

Empowering Youth Towards Nation Building Motivating Oneself

2. Date 29/09/2021

3. Venue DEPARTMENT OF PHYSICS 4. Mode ONLINE

5. Organizers DEPARTMENT OF PHYSICS 6. Faculty coordinator Ms.

POURKODEE D

7. No. of student participants 64 Students, 8 Research Scholars and 8 teachers from

various colleges from all over the country 8. Detailed Report of the Programme

The Department of Physics (Aided) organized national level webinar series - Empowering Youth Towards Nation Building on the topic Motivating Oneself under the banner of Triple Helix Science Club. Our Science Club is registered under Vigyan Prasar, DST, Govt. of India. The resource person of the program **Ms. Alagu Lakshmanan**, Neuro Linguistic Programming - Life Coach, AlisWell, Bangalore, interacted with the students very effectively. She introduced strategies & techniques to the students and made them to interact and gave them insight on how to manage Stress, Time Management and to improve self-awareness in themselves.

Through this talk the students are highly motivated and they were able to understand about their strengths and weakness in their personality, which was reflected well in their interaction with the resource person in their strive to understand themselves. 54 Students (**35 students of III B.Sc. Physics**) of Physics Department of our College, Research

Scholars and students from other colleges participated in the webinar enthusiastically. The

session was highly interactive.

9. Outcome of the programme/event

This is an initiative of our Department to help students, research scholars and staffs to achieve self-motivation, improve time and stress management. Through this initiative we believe that our students can achieve time management and motivate themselves to achieve a great future. 10. Photos



# **ACTIVITY 5**

1. Name of the event Building ICT Skill Series – Celebrate Navarathri! Celebrate Women in

Science! - Online Quiz

- 2. Date 7-16, October 2021
- 3. Venue DEPARTMENT OF PHYSICS
- 4. Mode ONLINE
- 5. Organizers DEPARTMENT OF PHYSICS
- 6. Faculty coordinator Dr. D.SRIDEVI

7. No. of student participants 270 participants from schools and colleges across India

8. Detailed Report of the Programme

As a part of Navarathri celebration, TRIPLE HELIX SCIENCE CLUB of the Department of Physics (Aided), Dwaraka Doss Goverdhan Doss Vaishnav College, Arumbakkam, Chennai has organized an online quiz based on India Science. India Science is an Internet-based science Over The-Top (OTT) TV channel. It is an initiative of the Department of Science and Technology (DST), Govt of India, implemented and managed by Vigyan Prasar (VP), an autonomous organization of the Department of Science and Technology. This Quiz Contest is available from 7- 16, October 2021. More than 250 participants from schools and colleges across the country participated in the quiz.

# 9. Outcome of the programme/event

This quiz is an initiative of our Department to help young people know about lives of Indian

women scientists. Through this initiative, we believe we can bring in Gender equity in STEM and achieve SDG goals.

10. Photos

### **ACTIVITY 6**

### 1. Name of the event: VIGYAN SARVATRA PUJYATE-Popular Science Lecture CoVid -19 -Challenges and its lessons

2. Date: 25/02/2022

3. Venue: Shri Jagadguru Vallabacharya Auditorium 4. Mode : Offline

- 5. Organizers: Department of Physics(Shift I) in association with Ariviyal Palagai, TNSTC, Vigyan Prasar, DST, Govt. of India
- 6. Faculty coordinator: Dr.D.Uthra
- 7. Resource Person : Dr.Jayashree Sharma, Gynecologist, Infertility Specialist, Chennai 8. No.
- of Staff Participants: 11
- 9. No. of student participants: 118

### 10. Detailed Report of the Programme

Government of India is celebrating a year-long programme *Azadi ka Amrut Mahotsav* to pay homage and showcase India's achievements in 75 years of Independence. The Government of India's science and technology organisations in close partnership with state agencies are leveraging this 'Mahotsav' as an opportunity, to celebrate S&T achievements over the 75 years through programmes that inspire our youth and help them navigate into building a progressive nation.

*Vigyan Sravatra Pujyate* (FEB 22-28,2022) is a week dedicated to Science and Technology. This is jointly organised by DST, DBT, CSIR, MoES, DAE, DOS, ICMR, AICTE, and DRDO under the leadership of the office of the Principal Scientific Officer to the Government of India and the Ministry of Culture. Vigyan Prasar has been given the responsibility for coordinating the event. Website: https://vigyanpujyate.in/

*Ariviyal Palagai* (An initiative of Vigyan Prasar) work towards bringing out all relevant contents in Tamil Language for this program. In Tamil Nadu, TNSTC (Tamil Nadu Science and Technology Centre) plays a pivotal role in conducting this event during this period. Department of Physics, Dwaraka Doss Goverdhan Doss Vaishanv College, Arumbakkam, Chennai hosted popular Science lectures in association with *Ariviyal Palagai* and TNSTC.

Dr. Jayasree Sharma, Gynecologist, infertility Specialist & General Physician, Chennai gave a public lecture 'Covid-19 challenges and its Lessons' on 25 February 2022. It was a very interactive session. Different vaccines that were produced by Serum Institute of India , vaccination drive that helped billions of lives, our people's cooperation to get vaccine administered have definitely made the globe turn around us. Despite such a great population, our country , we have faced the third wave bravely with less mortality, thanks to vaccines.

Dr. Santhosh Baboo, Principal inaugurated this programme and felicitated the guest speaker. Also the Principal felicitated Dr.Renganayaki and Dr Selvakothai Nachiyar of the Physics Department, for their contribution taking Science to people in English and Tamil. Dr. Uthra Dorairajan, Head, Department of Physics coordinated the entire event.

### 11. Outcome of the programme/event

The programme helped the stdents to understand our country's S&T initiatives and innovation that helped to tackle COVID. The speaker urged the students to take up research and march forward in life. Students were very motivated by her interactive session. The students of department who created Corona awareness posters, animations, songs during the first wave lockdown were awarded

with certificate of appreciation.

12. Photos(Geo tagged) / YouTube link

https://youtu.be/4oXf3wqK9\_4

### ACTIVITY 7

1. Name of the event: VIGYAN SARVATRA PUJYATE-Popular Science Lecture-2

Science Research in India-Next 15 years

2. Date: 28/02/2022

- 3. Venue: Shri Jagadguru Vallabacharya Auditorium 4. Mode : Offline
- 5. Organizers: Department of Physics(Shift I) in association with Ariviyal Palagai, TNSTC, Vigyan Prasar, DST, Govt. of India
- 6. Faculty coordinator:Dr.D.Uthra
- 7. Resource Person :Dr.Narendran Gopalan,Senoir Deputy Director, ICMR-National Institute for Research in Tuberculosis -NIRT
- 8. No. of Staff Participants: 10
- 9. No. of student participants:134

10. Detailed Report of the Programme

Government of India is celebrating a year-long programme *Azadi ka Amrut Mahotsav* to pay homage and showcase India's achievements in 75 years of Independence. The Government of India's science and technology organisations in close partnership with state agencies are leveraging this 'Mahotsav' as an opportunity, to celebrate S&T achievements over the 75 years through programmes that inspire our youth and help them navigate into building a progressive nation.

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Dr. Narendran Gopalan, Scientist - E, Senior Deputy Director, ICMR, National Institute for Research in Tuberculosis – NIRT gave a talk 'Science and spirituality to lead research for a better world in 15 years' on 28 February 2022. Through his interesting and interactive session, he highlighted the research initiatives by the government, especially in the medical field.

Dr. Santhosh Baboo, Principal inaugurated this programme. Shri. Ashok Kumar Mundra, Secretary of the college presided and felicitated the speakers. Dr.Uthra Dorairajan, Head, Department of Physics coordinated the entire event. Many students from different departments, students from nearby colleges and public attended the lecture. The students of the department who participated and contributed in Arvind Gupta toys and films dubbing, artworks, scribe, article writing, magazine making, You Tube video making, Vigyan Sarvatra Pujyate volunteer team were awarded with certificate of appreciation.

11. Outcome of the programme/event

The speaker urged the students to take up research as their career. The programme helped the students to understand our country's S&T initiatives and innovation. Students were motivated by the interactive session.

12. Photos(Geo tagged) / YouTube link

https://youtu.be/EHNqyMQ-8Q8

VIVEKANANDA KENDRA PRAKASHAN, CHENNAI

# SWADHYAYA VARGA

இன்றைய சூழலில் பெரியோரின் பங்கு

Mr. Sudhakar Kasthuri

**ZOOM:** <u>https://tinyurl.com/SwadhyayaFri</u> **YOUTUBE:** <u>https://youtu.be/p-LUjjscupc</u>

MEETING ID: 824 8105 3826 PASSWORD: 1234

DATE: 27/08/2021 TIME: 7PM- 8PM



### **Student-Centric methods**

'*Learning is the product of the activity of learners*'. To help students with opportunities and reflect on what they have learned, the Department of English (Shift II), conducts various language activities for the benefit of the learners and enables them to put into practice the knowledge and skills they have been developing through the traditional teaching methods.

Experiential learning involves students actively participate in the learning process and helps them think independently. Participative teaching methods like debate and role play focuses on encouraging students to gain professional values, knowledge and skills. In debates, students are divided as teams and made to come up with advantages that include practice in using the language effectively and crafting evidence-based reasoning in their arguments. Engaging in a debate aids them to collaborate with other classmates in finding and endorsing solutions to social issues that affect the community they belong to. Language activities like poster-making, group discussion, powerpoint presentation and quiz provide students an opportunity to examine their actions and thought-processes. Speaking activities like role play encourages students to think more critically about complex and controversial subjects and to see situations from a different perspective.

Mock interviews conducted in the classroom enables students to get guidance on resume writing, practise interview questions, demonstrate a positive body language and overcome interview anxiety. Group discussion helps students develop their critical thinking skills, problem-solving abilities, and communication skills. These student-centric methods provide new possibilities to students to see things around them in a different perspective and express their thoughts and opinions efficiently. The Department ensures experiential and participative learning is incorporated in all the language activities so that students receive holistic learning.

# DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE

Autonomous, College with Potential for Excellence, Linguistic Minority Institution, Arumbakkam, Chennai

**DEPARTMENT OF PHYSICS** 



(AIDED)



# PADMA AWARDS FOR INCLUSIVITY

LET'S KNOW ABOUT THE GREAT KARMAYOGIS WHO WORK FOR THE UPLIFMENT OF OUR PEOPLE.

Abinaya R | Rohith AK I Pavithra B

Santhosh Babu S I BATCH :2019-22

Let's be inclusive !

As we say every single drop of water counts, social responsibility of every single citizen counts towards the welfare of the entire society. Padma awards are one of the highest civilian honours of our country. It recognises achievement in all fields of activities or disciplines, where the element of public service is involved.

This compilation is about a few Padma awardees who have been recognised for their exquisite gesture towards the empowerment and welfare of our society. There are ofcourse many more such *karmaveerargal* of our soil. It is really inspirational to look at their contribution through welfare activities for the society and struggles overcome by them for the upliftment of underprivilege. Looking at their illustrious journey, many life lessons can be learnt.

Let us walk along with them in their path and know more about them through

https://www.padmaawards.gov.in





as 'Shankuntala Baideo' Social Work | Assam



her contribution towards revitalizing the Kosi river





Eminent Thongka Painter from Sikkim - specialising in tradition Buddhist paintings on cotton and silk Art | Sikkim



tusinessmin turned Social Worker - working for water conservation drought-prose Saurahira Social Work | Gujarat



25 year old living embodiment of Yoga, Dhyan and Sewa from Kashi continues to serve all around him, despite his humble background Others | Uttar Pradesh















Tribal Organic Farmer from Mangaluru - from being a labourer, single handedly transforming a burren land into an organic tree farm Others | Karnataka



Art | Telangana









NIRU KUMAR



PADMA SHRI 2021 6 VENKATESH













MAHAJAN

PADMA BHUSHAN



RADHE SHYAM BARLE





BARGAYAN BURABHOKOT 1



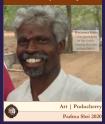








V K Munusamy Krishnapakthar





Tsering Landol



Javed Ahmad Tak







Utsay Charan Das



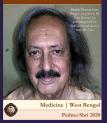
Badena Shei 2020



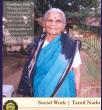
Padma Shri 2020







#### Krishnammal Jagannathan



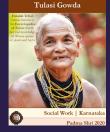
Padma Bhushan 2020

#### M C Mary Kom











#### Harekala Hajabba



#### Benichandra Jamatia







MADURAI CHINNA PILLAI

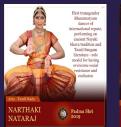
Padma Shri 0 2010



Social Work - Karnataka SAALUMARADA Padma Shri 2019 THIMMAKKA



DAHIYA











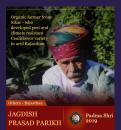




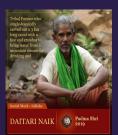












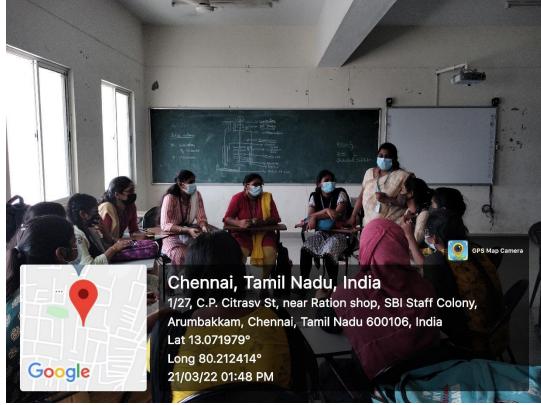






2.3.1 Student-centric methods such as experiential learning, participative learning and problemsolving methodologies are used for enhancing learning experiences:

Class: III B.Sc. Biotechnology Activity: Group Discussion Course name: Medical Biotechnology <u>Topic: Recombinant DNA Technology in medicine</u>



Class: I B.Sc. Biotechnology Activity: Lecture session Course name: Molecular Biology Topic: Prokaryotic Replication



Class: III B.Sc. Biotechnology Activity: Herbarium preparation Course name: Plant Biotechnology Topic: Plant and its applications



Class: I M.Sc. Biotechnology Activity: Zebra fish breeding Course name: Marine Biotechnology Topic:Rearing and Breeding of Zebrafish



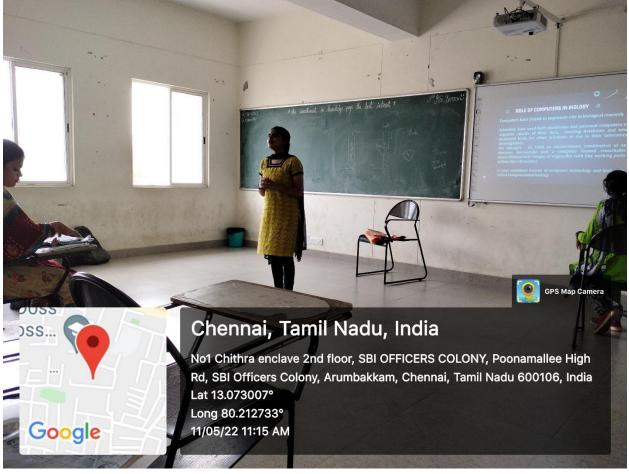
Class: II M.Sc. Biotechnology Activity: Skill enhancement activity Course name: Genetic Engineering Practical Topic: DNA Isolation



Class: II B.Sc. Biotechnology Activity: Skill enhancement activity Course name: Bioinstrumentation Practical Topic: SDS Gel Electrophoresis



Class: II B.Sc. Biotechnology Activity: Student Seminar Course name: Fundamentals of Computers and Biostatistics Topic: Role of Computers in Biology



Class: II B.Sc. Biotechnology Activity: Student Seminar Course name: Fundamentals of Computers and Biostatistics Topic: Correlation analysis



Class: I M.Sc. Biotechnology Activity: Student Seminar Course name: DNA Bar coding Technology Topic: Biomarker gene for Plant genome



Arumbakkam, Chennai, Tamil Nadu 600106, India

Latitude 13.0729924° Longitude 80.2126769°

Local 09:43:53 AM GMT 04:13:53 AM

Altitude -77.3 meters Thursday, 26-05-2022 Class: II B.Sc. Biotechnology Activity: Skill Enhancement Course name: Bioinstrumentation Practical Topic: Demonstration of Experiment by faculty



# **VALUE EDUCATION**

# ASSIGNMENT 1: (any one topic)

This is a small hint to choose your topic(s) of interest to submit your assignment/presentation for value education. You are free to come out with your own ideas/topics related to the value education syllabus prescribed below

# Read ALL the Assesment Criteria, submission Protocol and submission deadline given below

# **Topics**

- 1. Bahurupi Gandhi ( not My Experiments With Truth)
- 2. Wangari Mathai
- 3. APJ Abdul Kalam, Vision 2020
- 4. Tirumoolar, Tamil works and way of life
- 5. VinobhaBhave and Bhoodaan
- 6. M.S.Udayamoorthy -any work
- 7. Zig Ziglar
- 8. Swami Vivekananda -any work
- 9. B.S.Iyengar and Yoga, Krishnamacharya Yoga Mandiram
- 10. Appreciating music of aboriginals, tropical rainforests, Sufi, Rabindra-Sangeeth, Abhangs, Bhakti movement of India, gharanas, and northeast music.
- 11. Art conservation by Dhakshinachitra
- 12. Heritage walks/ Food walks in Chennai
- 13. Compilation of details on
- i) NHRC
- ii) RTI
- iii) RTE

iv) Judgements on human rights violation and protection, in India.

v) NGOs working in human rights protection.

vi) Rights of working women during pregnancy.

vii) Child care units in workplaces and offices is mandatory.

viii) Genders, Intersex people and their issues.

ix) World war wife scenario.

x) Women players in various international games must prove their gender every time. Is it correct or a human rights violation?

15. Suicide prevention.

16. Movie clips on gender violation/human rights,violation/discrimination by race, colour, gender, region, dialect -Our insensitivity as a society or individual.

17. Totochan, Learning difficulties

18. Madras Dyslexia Association.

19. Guide lines to adopt a child by our government.

20. Pro-active measure we can adopt to cull the ignorance of men/ inhibition in women in our society on menstruation and physical ailments of women that leads to implicit domestic violence.

21. Life of women workers, daily wage labourers, street vendors and hawkers.

22. Alcoholic men and domestic violence.

23. Professional ethics.

24. Media clippings (T.V, news, movies) on making us passive.

25. Chennai counsellors.

26. Justify your arguments on the importance of having full -time counsellors in colleges, school.

27. Right time to develop these qualities - Justify using real life examples.

- Decision making
- Listening to opponent's opinion
- Tolerance
- Faith
- Being objective
- Critical thinking
- Anger management
- Speaking out one's feeling
- Learning to appreciate others/ other culture/ food/ habits/ values.
- 28. Respecting food habits of other parts of our country.
- 29. Folklore.
- 30. INTACH (Indian National Trust for Art and Cultural Heritage)
- 31. ASI (Archaeological Survey of India)
- 32. Goa Inquisition and Vascodagama
- 33. Nalvazhi, Moodhurai
- 34.Inna naarpadhu, iniyavai Naarpadhu
- 35. Alcoholism and rehabilitation.
- 36. Smoking is injurious to health.

- 37. Weeds and drugs.
- 38. Women in science.
- 39. A Beautiful Tree by Dharampal.
- 40. Maria Montessori.
- 41. Waldrof.
- 42. J. Krishnamurthy foundation.
- 43. Leelavati's daughters.
- 44. Social media- how to use it for our good.
- 45. Social media addiction and narcissism.
- 46. Shri. Vallabhacharya
- 47.Incidents in the life of Ramanuja, Vaishnava Acharya
- 48. Mathematical works of Vedanta Desigar
- 49.AIM for SEva movement
- 50. Arsha Vidya Gurukulam of Swami Dayananda
- 51. Swami Vivekananda and Tesla
- 52. Swami Vivekananda, Tata and IISc
- 53. Hindu Chemistry of PC Ray
- 54. Sushruta and Charaka Samhita and Surgery, surgical tools
- 55. Travel of Cholas and spread of Indian heritage and culture

# **Submission Protocol**

# Naming convention and file size:

All submissions should have the following on the top right hand corner of the first page of your document. Your name: Registration Number : Course Name: Value Education Name of your Topic chosen: (E.g.: Bahuroopi Gandhi) Name of Submission: (E.g.: Submission 1: Ideation and building connections)

### Name of your file:

Your name, Registration number and submission number (E.g.: Krithik\_Regisnum\_Submission1)

# **Assessment Criteria**

• Understanding (10% weightage)

Identify and make connections between various elements in the chosen topic

during search, ideation and final demonstrable outcome

• **Ideating** (30% weightage)

Converting your thinking into an outcome.

It should reflect the relevance: how well it directly relates to your topic and your Understanding of the topic.

Use any appropriate digital tool or digitise your work. It can be a video, animation. It should reflect your various skill sets and definitely your digital skill

# • **Applying** (50% weightage)

Coherence, connections, presentation, articulation and finesse of submission. Check and ensure the following-

- 1. Organisation of material into a coherent structure: introduction, argument and evidence, conclusion
- 2. Clear style, including accurate spelling, clear sentence construction and punctuation

- 3. References, Bibliography
- 4. Credits to music, artworks, photos- Try to use everything that you have created or from Creative Commons. Must not violate privacy or copyrights
- 5. Use of own words, except where directly quoting from another source
- 6. Appropriate Language: avoidance of inappropriate slang, racist or sexist language or demean physical or mental illness/challenges
- **Reflection** (10% weightage)

Articulation or write up of your progress and inputs from peers/ teachers / family / others in making this presentation . You need to share your presentation with your friends /teachers while it is in progress and get feedback often.

- Choice of Topic- Cannot be changed later 28, Sep, 2021, 5.00 p.m.
- Submission 1- 18, Sep, 2021
- Submission 2 Revised submission -25, Sep, 2021
- Submission 3 Final Submission 23, Oct, 2021

# MADRAS UNIVERSITY

# PART- IV VALUE EDUCATION SYLLABUS

Common for all U.G. & Five Year Integrated Courses

III YEAR - FIFTH SEMESTER

**CREDITS 2** 

# OBJECTIVE

Values are socially accepted norms to evaluate objects, persons, and situations that form part and parcel of sociality. A value system is a set of consistent values

and measures. Knowledge of the values is inculcated through education. It contributes in forming true human being, who is able to face life and make it meaningful. There are different kinds of values like, ethical or moral values, doctrinal or ideological values, social values and aesthetic values. Values can be defined as broad preferences concerning appropriate courses of action or outcomes. As such, values reflect a person's sense of right and wrong or what "ought" to be. There are representative values like, "Equal rights for all", "Excellence deserves admiration". "People should be treated with respect and dignity". Values tend to influence attitudes and behavior and help to solve common human problems. Values are related to the norms of a culture.

# Unit I:

Value education-its purpose and significance in the present world – Value system – The role of culture and civilization-Holistic living – Balancing the outer and inner –Body, Mind and Intellectual level- Duties and responsibilities.

# Unit II :

Salient values for life- Truth, commitment, honesty and integrity, forgiveness and love, empathy and ability to sacrifice, care, unity, and inclusiveness, Self esteem and self-confidence, punctuality – Time, task and resource management – Problem solving and decision making skills- Interpersonal and Intra personal relationship – Team work – Positive and creative thinking

# **Unit III :**

Human Rights – Universal Declaration of Human Rights – Human Rights violations – National Integration – Peace and non-violence – Dr. A P J Kalam's ten points for enlightened citizenship – Social Values and Welfare of the citizen – The role of media in value building.

# Unit IV:

Environment and Ecological balance –interdependence of all beings – living and non-living. The binding of man and nature – Environment conservation and enrichment.

# Unit V :

Social Evils – Corruption, Cyber crime, Terrorism –Alcoholism, Drug addiction – Dowry – Domestic violence –untouchability – female infanticide – atrocities against women-How to tackle them

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# Articles Published by our students



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# EXOPLANET JAYA SHREEKS

stars, but free-floating exoplanets, called planets, orbit the galactic center and are erred to any star. In Milky Way galaxy, there out one billion stars like our sun. Also, there out one billion galaxies in our universe.

#### Types

There are different types of exoplanet present he universe namely: Earth like planets. Super h planets. Mini-Neptune planets, large Neptune evis and gas gaints. The Earth-like planets are ilar to that of our Earth and super Earth planets potentially a rocky world larger than Earth.

are potentially a rocky work targer tian earth. Whereas the Neptune like planets are gaseous worlds around the size of less or greater than Neptune. And gas gaints are gaint planets composed manih of gas. But the most common exoplanets are super Earths and mini Neptunes.

exuplanets are super Earths and mini Neptunes. The very first exuplant visa discovered in the 1990s and since then we know 4569 confirmed planets Exoplanets can be detected by direct and indirect methods which consist of the transit methods, radial velocity method and many more Where in a direct imaging methods, the certain stars is blocked, thereby the image of the planet is captured. The transit method only works for star-tic aparted in the context aligned in such planet systems that have orbits aligned in such captured. The transit method only works for star-planet systems that have orbits aligned in such a way that, as seen from the Earth, the planet travels between us and the star and temporarily blocks some of the light from the star once during every orbit. A planet doer not usually block much light from a star, (only 1% or less) but this can be ARIVUKKAN

detected. By this method, exoplanet can be detected with it's size. In radial velocity method where the planet and the star, orbit their common center of mass. Because their is so much more massive than the planets, the center of mass is within the planet travels around a Astronomers an measure this webble by using spectroscopy and estimates the ratio of the masses of the stars, and seem embrail elements.

ermens. But when multiple methods are used together, we can learn the vital statistics of the whole planetary systems. The TRAPPIST1 star system is home to the largest batch of roughly Earth size planets ever found outside our solar system. The start system consists of 2 planets and it with from the start system. was discovered by Spitzer telescope.

#### ISRO

The Indian Space Research Organisation (ISRO) is embarking upon Exoworlds, an ambitious exoplanet mission. The hauch is set for 2025. The mission "Exoworlds" would find answers to the queries on the possibility of evolution of life in exoplanet system.

December 2021

### **IS NON-STICK PAN** SAFE?



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