



Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

Index

1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

Sl. No.	Description	Page No.
1.	SYLLABUS	1
2.	PROFESSIONAL ETHICS a) Internship Report b) Internship Certificate	31 41
3.	GENDER a) Curricular Activities (Project list) b) Extracurricular Activities (Sports) c) Extracurricular Activities (NSS) d) Gender List e) Self Defence training f) Women Empowerment Cell	42 46 62 64 65 66
4.	HUMAN VALUES a) AICTE Student Induction Program b) NSS Activities	67 92
5.	ENVIRONMENT AND SUSTAINABILITY a) Solar Panel, Rainwater Harvesting and Nakshatravanam b) Sustainability Project	96 102



Dr. A. S. Nair
PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680501

Code.	Course Name	L	T	P	Hrs	Credit
HUT 200	Professional Ethics	2	0	0	2	2

Preamble: To enable students to create awareness on ethics and human values.

Prerequisite: Nil

Course Outcomes: After the completion of the course the student will be able to

CO 1	Understand the core values that shape the ethical behaviour of a professional.
CO 2	Adopt a good character and follow an ethical life.
CO 3	Explain the role and responsibility in technological development by keeping personal ethics and legal ethics.
CO 4	Solve moral and ethical problems through exploration and assessment by established experiments.
CO 5	Apply the knowledge of human values and social values to contemporary ethical values and global issues.

Mapping of course outcomes with program outcomes

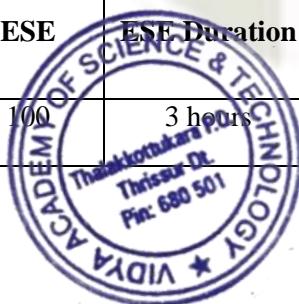
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2
CO 1								2			2	
CO 2								2			2	
CO 3								3			2	
CO 4								3			2	
CO 5								3			2	

Assessment Pattern

Bloom's category	Continuous Assessment Tests		End Semester Exam
	1	2	
Remember	15	15	30
Understood	20	20	40
Apply	15	15	30

Mark distribution

Total Marks	CIE	ESE	Duration
150	50	100	3 hours



[Signature]
PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
 Thalakkottukara P.O.
 Thrissur - 680501

Continuous Internal Evaluation Pattern:

Attendance	: 10 marks
Continuous Assessment Tests (2 Nos)	: 25 marks
Assignments/Quiz	: 15 marks

End Semester Examination Pattern: There will be two parts; Part A and Part B. Part A contains 10 questions with 2 questions from each module, having 3 marks for each question. Students should answer all questions. Part B contains 2 questions from each module of which student should answer any one. Each question can have maximum 2 sub-divisions and carry 14 marks.

Course Level Assessment Questions**Course Outcome 1 (CO1):**

1. Define integrity and point out ethical values.
2. Describe the qualities required to live a peaceful life.
3. Explain the role of engineers in modern society.

Course Outcome 2 (CO2)

1. Derive the codes of ethics.
2. Differentiate consensus and controversy.
3. Discuss in detail about character and confidence.

Course Outcome 3(CO3):

1. Explain the role of professional's ethics in technological development.
2. Distinguish between self interest and conflicts of interest.
3. Review on industrial standards and legal ethics.

Course Outcome 4 (CO4):

1. Illustrate the role of engineers as experimenters.
2. Interpret the terms safety and risk.
3. Show how the occupational crimes are resolved by keeping the rights of employees.

Course Outcome 5 (CO5):

1. Exemplify the engineers as managers.
2. Investigate the causes and effects of acid rain with a case study.
3. Explorate the need of environmental ethics in technological development.



PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680501

Model Question paper

QP CODE:

Reg No: _____

PAGES:3

Name : _____

**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY THIRD/FOURTH SEMESTER
B.TECH DEGREE EXAMINATION, MONTH & YEAR****Course Code: HUT 200****Course Name: PROFESSIONAL ETHICS****Max. Marks: 100****Duration: 3 Hours****(2019-Scheme)****PART A****(Answer all questions, each question carries 3 marks)**

1. Define empathy and honesty.
2. Briefly explain about morals, values and ethics.
3. Interpret the two forms of self-respect.
4. List out the models of professional roles.
5. Indicate the advantages of using standards.
6. Point out the conditions required to define a valid consent?
7. Identify the conflicts of interests with an example?
8. Recall confidentiality.
9. Conclude the features of biometric ethics.
10. Name any three professional societies and their role relevant to engineers.

(10x3 = 30 marks)**PART B****(Answer one full question from each module, each question carries 14 marks)****MODULE I**

11. a) Classify the relationship between ethical values and law?

b) Compare between caring and sharing.

(10+4 = 14 marks)

Or

12. a) Exemplify a comprehensive review about integrity and respect for others.



Ans.
PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
 Thalakkottukara, P.O.
 Thrissur - 680501

b) Discuss about co-operation and commitment.

(8+6 = 14 marks)

MODULE II

13.a) Explain the three main levels of moral developments, devised by Kohlberg.

b) Differentiate moral codes and optimal codes.

(10+4 = 14 marks)

Or

14. a) Extrapolate the duty ethics and right ethics.

b) Discuss in detail the three types of inquiries in engineering ethics

(8+6 = 14 marks)

MODULE III

15.a) Summarize the following features of morally responsible engineers.

(i) Moral autonomy

(ii) Accountability

b) Explain the rights of employees

(8+6 = 14 marks)

Or

16. a) Explain the reasons for Chernobyl mishap ?

b) Describe the methods to improve collegiality and loyalty.

(8+6 = 14 marks)

MODULE IV

17.a) Execute collegiality with respect to commitment, respect and connectedness.

b) Identify conflicts of interests with an example.

(8+6 = 14 marks)

Or

18. a) Explain in detail about professional rights and employee rights.

b) Exemplify engineers as managers.

MODULE V

19.a) Evaluate the technology transfer and appropriate technology.

b) Explain about computer and internet ethics.

(8+6 = 14 marks)

Or

20. a) Investigate the causes and effects of acid rain with a case study.

b) Conclude the features of ecocentric and biocentric ethics.

(8+6 = 14 marks)




PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680501

Syllabus**Module 1 – Human Values.**

Morals, values and Ethics – Integrity- Academic integrity-Work Ethics- Service Learning- Civic Virtue- Respect for others- Living peacefully- Caring and Sharing- Honestly- courage- Cooperation commitment- Empathy- Self Confidence -Social Expectations.

Module 2 - Engineering Ethics & Professionalism.

Senses of Engineering Ethics - Variety of moral issues- Types of inquiry- Moral dilemmas –Moral Autonomy – Kohlberg’s theory- Gilligan’s theory- Consensus and Controversy- Profession and Professionalism- Models of professional roles-Theories about right action –Self interest- Customs and Religion- Uses of Ethical Theories.

Module 3- Engineering as social Experimentation.

Engineering as Experimentation – Engineers as responsible Experimenters- Codes of Ethics- Plagiarism- A balanced outlook on law - Challenges case study- Bhopal gas tragedy.

Module 4- Responsibilities and Rights.

Collegiality and loyalty – Managing conflict- Respect for authority- Collective bargaining- Confidentiality- Role of confidentiality in moral integrity-Conflicts of interest- Occupational crime- Professional rights- Employee right- IPR Discrimination.

Module 5- Global Ethical Issues.

Multinational Corporations- Environmental Ethics- Business Ethics- Computer Ethics -Role in Technological Development-Engineers as Managers- Consulting Engineers- Engineers as Expert witnesses and advisors-Moral leadership.

Text Book

1. M Govindarajan, S Natarajan and V S Senthil Kumar, Engineering Ethics, PHI Learning Private Ltd, New Delhi,2012.
2. R S Naagarazan, A text book on professional ethics and human values, New age international (P) limited ,New Delhi,2006.

Reference Books

1. Mike W Martin and Roland Schinzinger, Ethics in Engineering,4th edition, Tata McGraw Hill Publishing Company Pvt Ltd, New Delhi,2014.
2. Charles D Fleddermann, Engineering Ethics, Pearson Education/ Prentice Hall of India, New Jersey,2004.
3. Charles E Harris, Michael S Protchard and Michael J Rabins, Engineering Ethics- Concepts and Cases, Wadsworth Thompson Learning, United states,2005.
4. <http://www.slideword.org/slidestag.aspx/human-values-and-Professional-ethics>.



VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
PRINCIPAL
Thalakkottukara P.O.
Thrissur - 680501

Course Contents and Lecture Schedule

SL.N O	Topic	No. of Lectures
1	Module 1 – Human Values.	25
1.1	Morals, values and Ethics, Integrity, Academic Integrity, Work Ethics	1
1.2	Service Learning, Civic Virtue, Respect for others, Living peacefully	1
1.3	Caring and Sharing, Honesty, Courage, Co-operation commitment	2
1.4	Empathy, Self Confidence, Social Expectations	1
2	Module 2- Engineering Ethics & Professionalism.	
2.1	Senses of Engineering Ethics, Variety of moral issues, Types of inquiry	1
2.2	Moral dilemmas, Moral Autonomy, Kohlberg's theory	1
2.3	Gilligan's theory, Consensus and Controversy, Profession & Professionalism, Models of professional roles, Theories about right action	2
2.4	Self interest-Customs and Religion, Uses of Ethical Theories	1
3	Module 3- Engineering as social Experimentation.	
3.1	Engineering as Experimentation, Engineers as responsible Experimenters	1
3.2	Codes of Ethics, Plagiarism, A balanced outlook on law	2
3.3	Challenger case study, Bhopal gas tragedy	2
4	Module 4- Responsibilities and Rights.	
4.1	Collegiality and loyalty, Managing conflict, Respect for authority	1
4.2	Collective bargaining, Confidentiality, Role of confidentiality in moral integrity, Conflicts of interest	2
4.3	Occupational crime, Professional rights, Employee right, IPR Discrimination	2
5	Module 5- Global Ethical Issues.	
5.1	Multinational Corporations, Environmental Ethics, Business Ethics, Computer Ethics	2
5.2	Role in Technological Development, Moral leadership	1
5.3	Engineers as Managers, Consulting Engineers, Engineers as Expert witnesses and advisors	2



[Signature]
PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
 Thalakkottukara P.O.
 Thrissur - 680501

CODE	SUSTAINABLE ENGINEERING	CATEGORY	L	T	P	CREDIT
			2	0	0	NIL

Preamble: Objective of this course is to inculcate in students an awareness of environmental issues and the global initiatives towards attaining sustainability. The student should realize the potential of technology in bringing in sustainable practices.

Prerequisite: NIL

Course Outcomes: After the completion of the course the student will be able to

CO 1	Understand the relevance and the concept of sustainability and the global initiatives in this direction										
CO 2	Explain the different types of environmental pollution problems and their sustainable solutions										
CO 3	Discuss the environmental regulations and standards										
CO 4	Outline the concepts related to conventional and non-conventional energy										
CO 5	Demonstrate the broad perspective of sustainable practices by utilizing engineering knowledge and principles										

Mapping of course outcomes with program outcomes

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1						2	3					2
CO 2						2	3					2
CO 3						2	3					2
CO 4						2	3					2
CO 5						2	3					2

Assessment Pattern

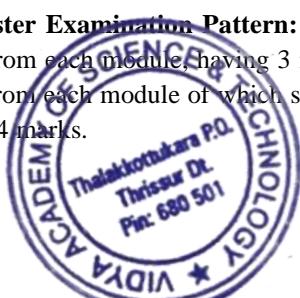
Mark distribution

Bloom's Category	Continuous Assessment Tests		End Semester Examination
	1	2	
Remember	20	20	40
Understand	20	20	40
Apply	10	10	20
Analyse			
Evaluate			
Create			

Continuous Internal Evaluation Pattern:

Attendance : 10 marks
 Continuous Assessment Test (2 numbers) : 25 marks
 Assignment/Quiz/Course project : 15 marks

End Semester Examination Pattern: There will be two parts; Part A and Part B. Part A contain 10 questions with 2 questions from each module, having 3 marks for each question. Students should answer all questions. Part B contains 2 questions from each module of which student should answer any one. Each question can have maximum 2 sub-divisions and carry 14 marks.




PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
 Thalakkottukara P.O.
 Thrissur - 680501

Total Marks	CIE	ESE	ESE Duration
150	50	100	3 hours

Course Level Assessment Questions

Course Outcome 1 (CO1): Understand the relevance and the concept of sustainability and the global initiatives in this direction

1. Explain with an example a technology that has contributed positively to sustainable development.
2. Write a note on Millennium Development Goals.

Course Outcome 2 (CO2): Explain the different types of environmental pollution problems and their sustainable solutions

1. Explain the 3R concept in solid waste management?
2. Write a note on any one environmental pollution problem and suggest a sustainable solution.
3. In the absence of green house effect the surface temperature of earth would not have been suitable for survival of life on earth. Comment on this statement.

Course Outcome 3(CO3): Discuss the environmental regulations and standards

1. Illustrate Life Cycle Analysis with an example of your choice.
2. "Nature is the most successful designer and the most brilliant engineer that has ever evolved". Discuss.

Course Outcome 4 (CO4): Outline the concepts related to conventional and non-conventional energy

1. Suggest a sustainable system to generate hot water in a residential building in tropical climate.
2. Enumerate the impacts of biomass energy on the environment.

Course Outcome 5 (CO5): Demonstrate the broad perspective of sustainable practices by utilizing engineering knowledge and principles

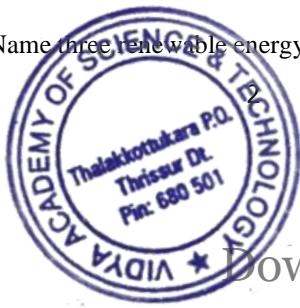
1. Suggest suitable measures to make the conveyance facilities used by your institution sustainable.

Model Question paper

Part A

(Answer all questions. Each question carries 3 marks each)

1. Define sustainable development.
2. Write a short note on Millennium Development Goals.
3. Describe carbon credit.
4. Give an account of climate change and its effect on environment.
5. Describe biomimicry? Give two examples.
6. Explain the basic concept of Life Cycle Assessment.
7. Name three renewable energy sources.



PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara P.O.
Thrissur - 680501

8. Mention some of the disadvantages of wind energy.
9. Enlist some of the features of sustainable habitat.
10. Explain green engineering.

Part B

(Answer one question from each module. Each question carries 14 marks)

11. Discuss the evolution of the concept of sustainability. Comment on its relevance in the modern world.

OR

12. Explain Clean Development Mechanism.
13. Explain the common sources of water pollution and its harmful effects.

OR

14. Give an account of solid waste management in cities.
15. Explain the different steps involved in the conduct of Environmental Impact Assessment.

OR

16. Suggest some methods to create public awareness on environmental issues.
17. Comment on the statement, "Almost all energy that man uses comes from the Sun".

OR

18. Write notes on:
 - a. Land degradation due to water logging.
 - b. Over exploitation of water.
19. Discuss the elements related to sustainable urbanisation.

OR

20. Discuss any three methods by which you can increase energy efficiency in buildings.



PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680501

Syllabus

Sustainability- need and concept, technology and sustainable development-Natural resources and their pollution, Carbon credits, Zero waste concept. Life Cycle Analysis, Environmental Impact Assessment studies, Sustainable habitat, Green buildings, green materials, Energy, Conventional and renewable sources, Sustainable urbanization, Industrial Ecology.

Module 1

Sustainability: Introduction, concept, evolution of the concept; Social, environmental and economic sustainability concepts; Sustainable development, Nexus between Technology and Sustainable development; Millennium Development Goals (MDGs) and Sustainable Development Goals (SDGs), Clean Development Mechanism (CDM).

Module 2

Environmental Pollution: Air Pollution and its effects, Water pollution and its sources, Zero waste concept and 3 R concepts in solid waste management; Greenhouse effect, Global warming, Climate change, Ozone layer depletion, Carbon credits, carbon trading and carbon foot print, legal provisions for environmental protection.

Module 3

Environmental management standards: ISO 14001:2015 frame work and benefits, Scope and goal of Life Cycle Analysis (LCA), Circular economy, Bio-mimicking, Environment Impact Assessment (EIA), Industrial ecology and industrial symbiosis.

Module 4

Resources and its utilisation: Basic concepts of Conventional and non-conventional energy, General idea about solar energy, Fuel cells, Wind energy, Small hydro plants, bio-fuels, Energy derived from oceans and Geothermal energy .

Module 5

Sustainability practices: Basic concept of sustainable habitat, Methods for increasing energy efficiency in buildings, Green Engineering, Sustainable Urbanisation, Sustainable cities, Sustainable transport .

Reference Books

1. Allen, D. T. and Shonnard, D. R., Sustainability Engineering: Concepts, Design and Case Studies, Prentice Hall.
2. Bradley. A.S; Adebayo,A.O., Maria, P. Engineering applications in sustainable design and development, Cengage learning
3. Environment Impact Assessment Guidelines, Notification of Government of India, 2006
4. Mackenthun, K.M., Basic Concepts in Environmental Management, Lewis Publication, London, 1998
5. ECBC Code 2007, Bureau of Energy Efficiency, New Delhi Bureau of Energy Efficiency Publications-Rating System, TERI Publications - GRIHA Rating System
6. Ni bin Chang, Systems Analysis for Sustainable Engineering: Theory and Applications, McGraw-Hill Professional.
7. Twidell, J. W. and Weir, A. D., Renewable Energy Resources, English Language Book Society (ELBS).
8. Purohit, S. S., Green Technology - An approach for sustainable environment, Agrobios Publication



PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680501

Course Contents and Lecture Schedule

No	Topic	No. of Lectures
1	Sustainability	
1.1	Introduction, concept, evolution of the concept	1
1.2	Social, environmental and economic sustainability concepts	1
1.3	Sustainable development, Nexus between Technology and Sustainable development	1
1.4	Millennium Development Goals (MDGs) and Sustainable Development Goals (SDGs)	1
1.5	Clean Development Mechanism (CDM)	1
2	Environmental Pollution	
2.1	Air Pollution and its effects	1
2.2	Water pollution and its sources	1
2.3	Zero waste concept and 3 R concepts in solid waste management	1
2.4	Greenhouse effect, Global warming, Climate change, Ozone layer depletion	1
2.5	Carbon credits, carbon trading and carbon foot print.	1
2.6	Legal provisions for environmental protection.	1
3	Environmental management standards	
3.1	Environmental management standards	1
3.2	ISO 14001:2015 frame work and benefits	1
3.3	Scope and Goal of Life Cycle Analysis (LCA)	1
3.4	Circular economy, Bio-mimicking	1
3.5	Environment Impact Assessment (EIA)	1
3.6	Industrial Ecology, Industrial Symbiosis	1
4	Resources and its utilisation	
4.1	Basic concepts of Conventional and non-conventional energy	1
4.2	General idea about solar energy, Fuel cells	1
4.3	Wind energy, Small hydro plants, bio-fuels	1
4.4	Energy derived from oceans and Geothermal energy	1
5	Sustainability Practices	
5.1	Basic concept of sustainable habitat	1
5.2	Methods for increasing energy efficiency of buildings	1
5.3	Green Engineering	1
5.4	Sustainable Urbanisation, Sustainable cities, Sustainable transport	1



[Handwritten signature]
PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
 Thalakkottukara, P.O.
 Thrissur - 680501

CODE MCN202	COURSE NAME CONSTITUTION OF INDIA	CATEGORY	L	T	P	CREDIT
			2	0	0	NIL

Preamble:

The study of their own country constitution and studying the importance environment as well as understanding their own human rights help the students to concentrate on their day to day discipline. It also gives the knowledge and strength to face the society and people.

Prerequisite: Nil

Course Outcomes: After the completion of the course the student will be able to

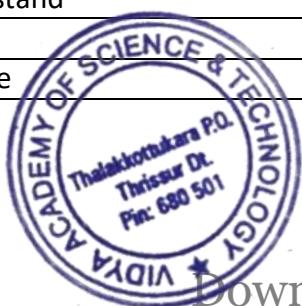
CO 1	Explain the background of the present constitution of India and features.
CO 2	Utilize the fundamental rights and duties.
CO 3	Understand the working of the union executive, parliament and judiciary.
CO 4	Understand the working of the state executive, legislature and judiciary.
CO 5	Utilize the special provisions and statutory institutions.
CO 6	Show national and patriotic spirit as responsible citizens of the country

Mapping of course outcomes with program outcomes

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1					2	2	2			2		
CO 2					3	3	3			3		
CO 3					3	2	3			3		
CO 4					3	2	3			3		
CO 5					3	2	3			3		
CO 6					3	3	3			2		

Assessment Pattern

Bloom's Category	Continuous Assessment Tests		End Semester Examination
	1	2	
Remember	20	20	40
Understand	20	20	40
Apply	10	10	20
Analyse			



Amelia
PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680501

Evaluate			
Create			

Mark distribution

Total Marks	CIE	ESE	ESE Duration
150	50	100	3 hours

Continuous Internal Evaluation Pattern:

Attendance : 10 marks
Continuous Assessment Test (2 numbers) : 25 marks
Assignment/Quiz/Course project : 15 marks

End Semester Examination Pattern: There will be two parts; Part A and Part B. Part A contains 10 questions with 2 questions from each module, having 3 marks for each question. Students should answer all questions. Part B contains 2 questions from each module of which student should answer any one. Each question can have maximum 2 sub-divisions and carry 14 marks.

Course Level Assessment Questions

Course Outcome 1 (CO1):

- 1 Discuss the historical background of the Indian constitution.
- 2 Explain the salient features of the Indian constitution.
- 3 Discuss the importance of preamble in the implementation of constitution.

Course Outcome 2 (CO2)

- 1 What are fundamental rights ? Examine each of them.
- 2 Examine the scope of freedom of speech and expression underlying the constitution.
- 3 The thumb impression of an accused is taken by the police against his will. He contends that this is a violation of his rights under Art 20(3) of the constitution. Decide.

Course Outcome 3 (CO3):

1 Explain the powers of the President to suspend the fundamental rights during emergency.

- 2 Explain the salient features of appeal by special leave.
3. List the constitutional powers of President.

Course Outcome 4 (CO4):

- 1 Discuss the constitutional powers of Governor.
- 2 Examine the writ jurisdiction of High court.
- 3 Discuss the qualification and disqualification of membership of state legislature.

Course Outcome 5 (CO5):

- 1 Discuss the duties and powers of comptroller of auditor general.
- 2 Discuss the proclamation of emergency.
- 3 A state levies tax on motor vehicles used in the state, for the purpose of maintaining roads in the state. X challenges the levy of the tax on the ground that it violates the freedom of interstate commerce guaranteed under Art 301. Decide.

Course Outcome 6 (CO6):

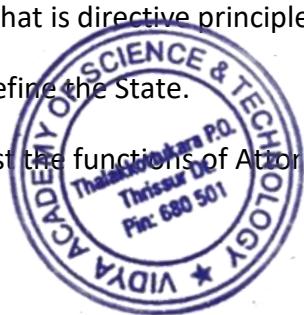
- 1 Explain the advantages of citizenship.
- 2 List the important principles contained in the directive principles of state policy.
- 3 Discuss the various aspects contained in the preamble of the constitution

Model Question paper

PART A

(Answer all questions. Each question carries 3 marks)

- 1 Define and explain the term constitution.
- 2 Explain the need and importance of Preamble.
- 3 What is directive principle of state policy?
- 4 Define the State.
- 5 List the functions of Attorney general of India.



PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680501

- 6 Explain the review power of Supreme court.
- 7 List the qualifications of Governor.
- 8 Explain the term and removal of Judges in High court.
- 9 Explain the powers of public service commission.
- 10 List three types of emergency under Indian constitution.

(10X3=30marks)

PART B

(Answer on question from each module. Each question carries 14 marks)

Module 1

- 11 Discuss the various methods of acquiring Indian citizenship.
- 12 Examine the salient features of the Indian constitution.

Module 2

- 13 A high court passes a judgement against X. X desires to file a writ petition in the supreme court under Art32, on the ground that the judgement violates his fundamental rights.
Advise him whether he can do so.

- 14 What is meant by directive principles of State policy? List the directives.

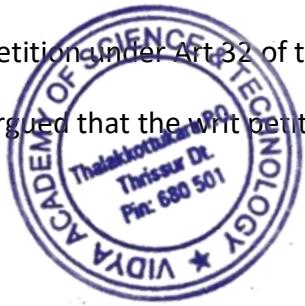
Module3

- 15 Describe the procedure of election and removal of the President of India.
- 16 Supreme court may in its discretion grant special leave to appeal. Examine the situation.

Module 4

- 17 Discuss the powers of Governor.
- 18 X filed a writ petition under Art 226 which was dismissed. Subsequently, he filed a writ petition under Art 32 of the constitution, seeking the same remedy. The Government argued that the writ petition should be dismissed, on the ground of res judicata. Decide.

Module 5



19 Examine the scope of the financial relations between the union and the states.

20 Discuss the effects of proclamation of emergency.

(14X5=70marks)

Syllabus

Module 1 Definition, historical back ground, features, preamble, territory, citizenship.

Module 2 State, fundamental rights, directive principles, duties.

Module 3 The machinery of the union government.

Module 4 Government machinery in the states

Module 5 The federal system, Statutory Institutions, miscellaneous provisions.

Text Books

1 D D Basu, Introduction to the constitution of India, Lexis Nexis, New Delhi, 24e, 2019

2 PM Bhakshi, The constitution of India, Universal Law, 14e, 2017

Reference Books

1 Ministry of law and justice, The constitution of India, Govt of India, New Delhi, 2019.

2 JN Pandey, The constitutional law of India, Central Law agency, Allahabad, 51e, 2019

3 MV Pylee, India's Constitution, S Chand and company, New Delhi, 16e, 2016

Course Contents and Lecture Schedule

No	Topic	No. of Lectures
1	Module 1	
1.1	Definition of constitution, historical back ground, salient features of the constitution.	1
1.2	Preamble of the constitution, union and its territory.	1
1.3	Meaning of citizenship, types, termination of citizenship.	2
2	Module 2	
2.1	Definition of state, fundamental rights, general nature, classification, right to equality, right to freedom, right against exploitation	2

2.2	Right to freedom of religion, cultural and educational rights, right to constitutional remedies. Protection in respect of conviction for offences.	2
2.3	Directive principles of state policy, classification of directives, fundamental duties.	2
3	Module 3	
3.1	The Union executive, the President, the vice President, the council of ministers, the Prime minister, Attorney-General, functions.	2
3.2	The parliament, composition, Rajya sabha, Lok sabha, qualification and disqualification of membership, functions of parliament.	2
3.3	Union judiciary, the supreme court, jurisdiction, appeal by special leave.	1
4	Module 4	
4.1	The State executive, the Governor, the council of ministers, the Chief minister, advocate general, union Territories.	2
4.2	The State Legislature, composition, qualification and disqualification of membership, functions.	2
4.3	The state judiciary, the high court, jurisdiction, writs jurisdiction.	1
5	Module 5	
5.1	Relations between the Union and the States, legislative relation, administrative relation, financial Relations, Inter State council, finance commission.	1
5.2	Emergency provision, freedom of trade commerce and inter course, comptroller and auditor general of India, public Services, public service commission, administrative Tribunals.	2
5.3	Official language, elections, special provisions relating to certain classes, amendment of the Constitution.	2



PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara P.O.
Thrissur- 680501

HUN 101	LIFE SKILLS	CATEGORY	L	T	P	CREDIT	YEAR OF INTRODUCTION
		MNC	2	0	2	---	2019

Preamble: Life skills are those competencies that provide the means for an individual to be resourceful and positive while taking on life's vicissitudes. Development of one's personality by being aware of the self, connecting with others, reflecting on the abstract and the concrete, leading and generating change, and staying rooted in time-tested values and principles is being aimed at. This course is designed to enhance the employability and maximize the potential of the students by introducing them to the principles that underly personal and professional success, and help them acquire the skills needed to apply these principles in their lives and careers.

Prerequisite: None

Course Outcomes: After the completion of the course the student will be able to

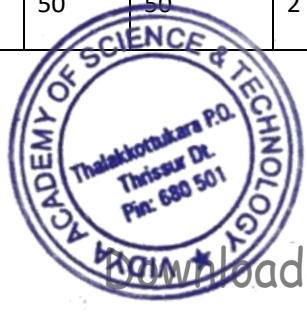
CO 1	Define and Identify different life skills required in personal and professional life
CO 2	Develop an awareness of the self and apply well-defined techniques to cope with emotions and stress.
CO 3	Explain the basic mechanics of effective communication and demonstrate these through presentations.
CO 4	Take part in group discussions
CO 5	Use appropriate thinking and problem solving techniques to solve new problems
CO 6	Understand the basics of teamwork and leadership

Mapping of course outcomes with program outcomes

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1					2			1	2	2	1	3
CO 2									3			2
CO 3						1			1	3		
CO 4										3		1
CO 5		3	2	1								
CO 6						1			3			

Mark distribution

Total Marks	CIE	ESE	ESE Duration
100	50	50	2



[Signature]
PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
 Thalakkottukara P.O.
 Thrissur - 680501

Continuous Internal Evaluation

Total Marks: 50

Attendance	: 10 marks
Regular assessment	: 15 marks
Series test (one test only, should include first three modules)	: 25 marks

Regular assessment

➤ Group Discussion (Marks: 9)

Create groups of about 6 students each and engage them on a GD on a suitable topic for about 20 minutes. Parameters to be used for evaluation are as follows:

- Communication Skills : 3 marks
- Subject Clarity : 2 marks
- Group Dynamics : 2 marks
- Behaviours & Mannerisms : 2 marks

➤ Presentation Skills (Marks: 6)

Identify a suitable topic and ask the students to prepare a presentation (preferably a power point presentation) for about 10 minutes. Parameters to be used for evaluation are as follows:

- Communication Skills : 2 marks
- Platform Skills : 2 marks
- Subject Clarity/Knowledge : 2 marks

End Semester Examination

Total Marks: 50

Time: 2 hrs.

Part A: Short answer question (25 marks)

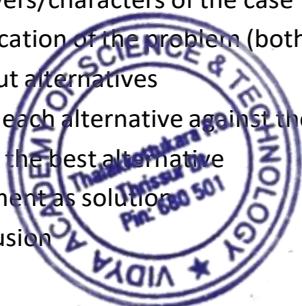
There will be one question from each MODULE (five questions in total, five marks each). Each question should be written in about maximum of 400 words. Parameters to be used for evaluation are as follows:

- (i) Content Clarity/Subject Knowledge
- (ii) Presentation style
- (iii) Organization of content

Part B: Case Study (25 marks)

The students will be given a case study with questions at the end. The students have to analyze the case and answer the question at the end. Parameters to be used for evaluation are as follows:

- (i) Analyze the case situation
- (ii) Key players/characters of the case
- (iii) Identification of the problem (both major & minor if exists)
- (iv) Bring out alternatives
- (v) Analyze each alternative against the problem
- (vi) Choose the best alternative
- (vii) Implement as solution
- (viii) Conclusion



(ix) Answer the question at the end of the case

Course Level Assessment Questions

Course Outcome 1 (CO1):

1. List 'life skills' as identified by WHO
2. What do you mean by effective communication?
3. What are the essential life skills required by a professional?

Course Outcome 2 (CO2)

1. Identify an effective means to deal with workplace stress.
2. How can a student apply journaling to stress management?
3. What is the PATH method? Describe a situation where this method can be used effectively.

Course Outcome 3(CO3):

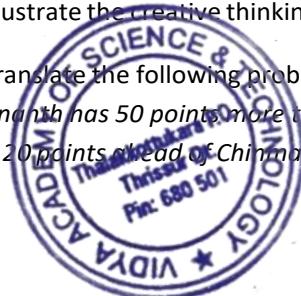
1. Identify the communication network structure that can be observed in the given situations. Describe them.
 - (a) A group discussion on development.
 - (b) An address from the Principal regarding punctuality.
 - (c) A reporter interviewing a movie star.
 - (d) Discussing the answers of a test with a group of friends.
2. Elucidate the importance of non-verbal communication in making a presentation
3. Differentiate between kinesics, proxemics, and chronemics with examples.

Course Outcome 4 (CO4):

1. How can a participant conclude a group discussion effectively?
2. 'Listening skills are essential for effectively participating in a group discussion.' Do you agree? Substantiate your answer.

Course Outcome 5 (CO5):

1. Illustrate the creative thinking process with the help of a suitable example
2. Translate the following problem from verbal to graphic form and find the solution : *In a quiz, Ananth has 50 points more than Bimal, Chinmay has 60 points less than Ananth, and Dharini is 20 points ahead of Chinmay. What is the difference in points between Bimal and Dharini?*



3. List at least five ways in which the problem "How to increase profit?" can be redefined

Course Outcome 6 (CO6):

1. A group of engineers decided to brainstorm a design issue on a new product. Since no one wanted to disagree with the senior members, new ideas were not flowing freely. What group dynamics technique would you suggest to avoid this 'groupthink'? Explain the procedure.
2. "A group focuses on individual contribution, while a team must focus on synergy." Explain.
3. Identify the type of group formed / constituted in each of the given situations
 - a) A Police Inspector with subordinates reporting to him
 - b) An enquiry committee constituted to investigate a specific incident
 - c) The Accounts Department of a company
 - d) A group of book lovers who meet to talk about reading

Syllabus

Module 1

Overview of Life Skills: Meaning and significance of life skills, Life skills identified by WHO: Self-awareness, Empathy, Critical thinking, Creative thinking, Decision making, problem solving, Effective communication, interpersonal relationship, coping with stress, coping with emotion.

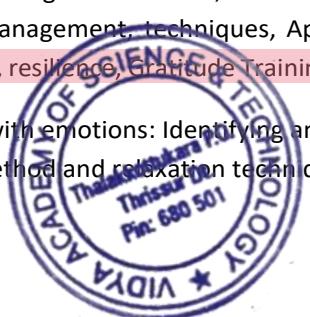
Life skills for professionals: positive thinking, right attitude, attention to detail, having the big picture, learning skills, research skills, perseverance, setting goals and achieving them, helping others, leadership, motivation, self-motivation, and motivating others, personality development, IQ, EQ, and SQ

Module 2

Self-awareness: definition, need for self-awareness; Coping With Stress and Emotions, **Human Values**, tools and techniques of SA: questionnaires, journaling, reflective questions, meditation, mindfulness, psychometric tests, feedback.

Stress Management: Stress, reasons and effects, identifying stress, stress diaries, the four A's of stress management, techniques, Approaches: action-oriented, emotion-oriented, acceptance-oriented, resilience, Gratitude Training.

Coping with emotions: Identifying and managing emotions, harmful ways of dealing with emotions, PATH method and relaxation techniques.



PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680501

Morals, Values and Ethics: Integrity, Civic Virtue, Respect for Others, Living Peacefully. Caring, Sharing, Honesty, Courage, Valuing Time, Time management, Co operation, Commitment, Empathy, Self-Confidence, Character, Spirituality, Avoiding Procrastination, Sense of Engineering Ethics.

Module 3

21st century skills: Creativity, Critical Thinking, Collaboration, Problem Solving, Decision Making, Need for Creativity in the 21st century, Imagination, Intuition, Experience, Sources of Creativity, Lateral Thinking, Myths of creativity, Critical thinking Vs Creative thinking, Functions of Left Brain & Right brain, Convergent & Divergent Thinking, Critical reading & Multiple Intelligence.

Steps in problem solving: Problem Solving Techniques, Six Thinking Hats, Mind Mapping, Forced Connections. Analytical Thinking, Numeric, symbolic, and graphic reasoning. Scientific temperament and Logical thinking.

Module 4

Group and Team Dynamics: Introduction to Groups: Composition, formation, Cycle, thinking, Clarifying expectations, Problem Solving, Consensus, Dynamics techniques, Group vs Team, Team Dynamics, Virtual Teams. Managing team performance and managing conflicts, Intrapreneurship.

Module 5

Leadership: Leadership framework, entrepreneurial and moral leadership, vision, cultural dimensions. Growing as a leader, turnaround leadership, managing diverse stakeholders, crisis management. Types of Leadership, Traits, Styles, VUCA Leadership, Levels of Leadership, Transactional vs Transformational Leaders, Leadership Grid, Effective Leaders.

Lab Activities

Verbal

Effective communication and Presentation skills.

Different kinds of communication; Flow of communication; Communication networks, Types of barriers; Miscommunication

Introduction to presentations and group discussions.

Learning styles: visual, aural, verbal, kinaesthetic, logical, social, solitary; Previewing, KWL table, active listening, REAP method

Note-taking skills: outlining, non-linear note-taking methods, Cornell notes, three column note taking.

Memory techniques: mnemonics, association, flashcards, keywords, outlines, spider diagrams and mind maps, spaced repetition.

Time management: auditing, identifying time wasters, managing distractions, calendars and checklists; Prioritizing - Goal setting, SMART goals; Productivity tools and apps, Pomodoro technique.

Non Verbal:

Non-verbal Communication and Body Language: Forms of non-verbal communication; Interpreting body-language cues; Kinesics; Proxemics; Chronemics; Effective use of body language; Communication in a multi-cultural environment.



Reference Books

1. Shiv Khera, You Can Win, Macmillan Books, New York, 2003.
2. Barun K. Mitra, "Personality Development & Soft Skills", Oxford Publishers, Third impression, 2017.
3. ICT Academy of Kerala, "Life Skills for Engineers", McGraw Hill Education (India) Private Ltd., 2016.
4. Caruso, D. R. and Salovey P, "The Emotionally Intelligent Manager: How to Develop and Use the Four Key Emotional Skills of Leadership", John Wiley & Sons, 2004.
5. Kalyana, "Soft Skill for Managers"; First Edition; Wiley Publishing Ltd, 2015.
6. Larry James, "The First Book of Life Skills"; First Edition, Embassy Books, 2016.
7. Shalini Verma, "Development of Life Skills and Professional Practice"; First Edition; Sultan Chand (G/L) & Company, 2014.
8. Daniel Goleman, "Emotional Intelligence"; Bantam, 2006.
9. Remesh S., Vishnu R.G., "Life Skills for Engineers", Ridhima Publications, First Edition, 2016.
10. Butterfield Jeff, "Soft Skills for Everyone", Cengage Learning India Pvt Ltd; 1 edition, 2011.
11. Training in Interpersonal Skills: Tips for Managing People at Work, Pearson Education, India; 6 edition, 2015.
12. The Ace of Soft Skills: Attitude, Communication and Etiquette for Success, Pearson Education; 1 edition, 2013.



CODE	COURSE NAME	CATEGORY	L	T	P	CREDIT
MET445	RENEWABLE ENERGY ENGINEERING	OEC	2	1	0	3

Preamble: The course is intended to give knowledge of various renewable energy sources, systems and applications and the need in the present context. Students will be able to compare different renewable energy techniques and choose the most appropriate based on local conditions. To equip students in working with projects and to take up research work in connected areas.

Prerequisite: Nil

Course Outcomes: After completion of the course the student will be able to

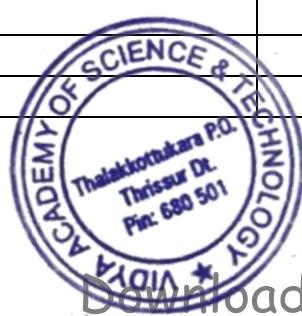
CO1	Explain renewable energy sources and evaluate the implication of renewable energy. To predict solar radiation at a location
CO2	Explain solar energy collectors, storages, solar cell characteristics and applications
CO3	Explain the different types of wind power machines and control strategies of wind turbines
CO4	Explain the ocean energy and conversion devices and different Geothermal sources
CO5	Explain biomass energy conversion devices. Calculate the Net Present value and payback period

Mapping of course outcomes with program outcomes

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3											3
CO 2	3	3			1	1	1				1	3
CO 3	3	3			1	1	1				1	3
CO 4	3	3			1	1	1				1	3
CO 5	3	3			1	1	1				1	3

Assessment Pattern

Bloom's Category	Continuous Assessment Tests		End Semester Examination
	1	2	
Remember	10	10	10
Understand	20	20	20
Apply	20	20	70
Analyse			
Evaluate			
Create			



Mark distribution

Total Marks	CIE	ESE	ESE Duration
150	50	100	3 hours

Continuous Internal Evaluation Pattern:

Attendance : 10 marks
 Continuous Assessment Test (2 numbers) : 25 marks
 Assignment/Quiz/Course project : 15 marks

End Semester Examination Pattern: There will be two parts; Part A and Part B. Part A contain 10 questions with 2 questions from each module, having 3 marks for each question. Students should answer all questions. Part B contains 2 questions from each module of which student should answer any one. Each question can have maximum 2 sub-divisions and carry 14 marks.

Course Level Assessment Questions:**Course Outcome 1 (CO1):**

1. What are the main renewable energy sources? Advantages and limitations
2. What is energy efficiency? How is it different from renewable energy use?
3. Define terms : Angle of Incidence, Declination, Solar constant

Course Outcome 2 (CO2):

1. Discuss different types of solar collectors
2. Discuss about different types of thermal storage devices
3. Draw the I-V characteristics of Solar cell under varying temperature and irradiation level

Course Outcome 3 (CO3):

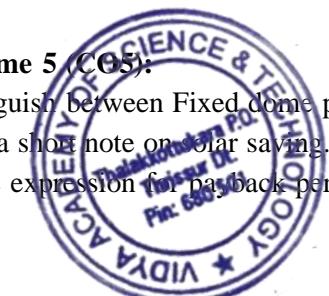
1. Types of wind turbine and components
2. Difference between wind mill and wind turbine
3. Explain importance of drag and lift force in wind power generation.

Course Outcome 4 (CO4):

1. Explain with neat sketch the working of hybrid OTEC system
2. Explain with neat sketch the vapour dominated geothermal system

Course Outcome 5 (CO5):

1. Distinguish between Fixed dome plant and floating dome type biomass plant.
2. Write a short note on solar saving.
3. Derive expression for payback period



D. S. E.
PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
 Thalakkottukara P.O.
 Thrissur - 680501

Model Question Paper**MODEL QUESTION PAPER****APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY****VII SEMESTER B.TECH DEGREE EXAMINATION****MET445 RENEWABLE ENERGY ENGINEERING****Maximum: 100 Marks****Duration: 3 hours****PART A**

Answer all questions, each question carries 3 marks

1. Discuss in brief advantages of renewable energy.
2. Explain the following terms related to solar geometry (i) Hour Angle (ii) Zenith Angle (iii) Surface azimuth angle
3. List different types of solar collectors
4. Discuss about solar pond
5. List the different methods used to estimate wind speed at a location.
6. What are the advantages of wind energy conversion systems?
7. List the geothermal resources.
8. Discuss advantages and disadvantages of a tidal power plant
9. Name the different processes used for hydrogen production
10. List the need for economic analysis of renewable energy system.

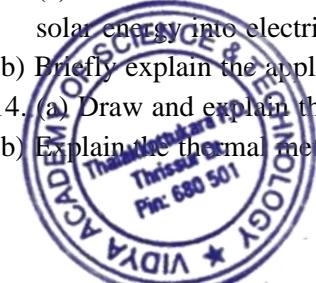
(10 X 3 = 30 marks)

PART B**Answer one full question from each module****Module 1**

11. Elucidate the necessity of energy storage in the context of renewable sources of energy (14 Marks)
12. (a) Calculate the number of daylight hours in Srinagar for 22nd June .The latitude of Srinagar as $34^{\circ}05'N$. (4 Marks)
- (b) Compare the construction and working of Pyranometer and Pyrheliometer. (10 Marks)

Module 2

13. (a) How solar thermal power plants classified. List the methods for converting solar energy into electric power (10 Marks)
- (b) Briefly explain the applications of a solar PV system. (4 Marks)
14. (a) Draw and explain the operation of flat plate collectors. (10 Marks)
- (b) Explain the thermal methods of energy storage (4 Marks)



VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
PRINCIPAL
Thalakkottukara, P.O.
Thirissur - 680501

Module 3

15. With a neat diagram explain the construction of a propeller type wind power system (14 marks)

16. (a) Derive the expression for power in the wind turbine. (7 marks)

b) Explain control mechanism in wind turbines (7 marks)

Module 4

17. State the principle of Ocean Thermal Energy Conversion (OTEC). Explain working of closed cycle OTEC system. (14 marks)

18. . Explain binary cycle Geothermal system (14 marks)

Module 5

19. Explain the construction and working of KVIC (floating type) bio gas plant (14 marks)

20. a. Define (1) Payback time (2) Return on investment .
(3) Life cycle cost (6 marks)

b. A solar PV system consisting with two lamps, a battery and other associated components cost Rs. 55000. The cost of conventional energy saved due to its installation is Rs. 4000 in the first year and this cost inflates at the rate of 5 % per year. Assume discounting rate is 9%. Calculate the payback period of the system with and without discounting (8 marks)

Syllabus**Module 1**

The Energy Scenario- Commercial energy sources -World's production and reserves- India's Production and reserves, **Energy Alternatives**, **Need for alternatives** –solar option-nuclear options

Principles of solar radiation : Solar radiation outside the earth's atmosphere and at the earth's surface , Solar Constant, Basic Sun-Earth Angles, Instruments for measuring solar radiation and sunshine , Solar radiation data

Module 2

Solar Energy collectors: Solar thermal collectors -Flat plate collectors –Solar concentrators (parabolic trough, parabolic dish, Central Tower Collector) –Solar Air Heaters

Solar thermal electric power generation -Thermal Energy storage, sensible heat storage, latent heat storage , Thermo chemical storage , photovoltaic system for power generation , Solar pond -**Solar Cells**-Types of solar cells , principle of working and performance characteristics, Production process- Block diagram only

Applications- Solar space heating and cooling of buildings, solar pumping, solar cooker, solar still, solar water, solar refrigeration and air-conditioning, heliostat, solar furnace



PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara P.O.
Thrissur - 680501

Module 3

Wind Energy- classification of wind turbines and power performance curve, Energy in wind, calculation of energy content, Power coefficients, Betz limit theory, , tip speed ratio, solidity of turbine' power control strategies, **Basic principles of Wind Energy Conversion Systems (WECS), Classification of WECS, Parts of WECS**

Module 4

Ocean Energy – Devices for Wave Energy conversion, Ocean Thermal Energy Conversion (OTEC): Principle of OTEC system, Methods of OTEC power generation – Open Cycle (Claude cycle), Closed Cycle (Anderson cycle) and Hybrid cycle (block diagram description of OTEC); **Geothermal energy: Introduction, hot dry rock resources, magma resources, vapor and liquid dominated systems, binary cycle, advantages and disadvantages**

Module 5

Bio Mass Energy- Biomass conversion technologies –Bio Gasification, Bio ethanol, Bio Diesel , **Biogas production from waste biomass, factors affecting biogas generation Bio Gas -KVIC and Janata model ,Hydrogen Energy – various routes for production of Hydrogen energy,**

Economic Analysis – Initial and annual cost, basic definitions, present worth calculations, repayment of loan in equal annual installments, annual savings, cumulative saving and life cycle cost, economic analysis of add on solar system, payback period(derivation)

Text Books:

1. S P Sukhatme , J K Nayak, Solar Energy: Principles of Thermal Collection and Storage, Mc Graw Hill ,2015
2. Tiwari G N, Ghosal M K ,Fundamentals of renewable energy sources, Alpha Science International Ltd.,2007
3. Jefferson W Tester et.a., Sustainable Energy Choosing among options,PHI,2006

Reference Books:

1. D.P. Kothari Renewable energy resources and emerging technologies, Prentice Hall of India Pvt. Ltd,2011
2. Mehmet KanoğluYunus A. Çengel John M. Cimbala , Fundamentals and Applications of Renewable Energy, Mc Graw Hill ,2019
3. Roland Wengenmayr, Thomas Bührke, 'Renewable Energy: Sustainable energy concepts for the future, Wiley – VCH, 2012



PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara P.O.
Thirissur - 680501

Course Contents and Lecture Schedule

No.	Topic	No. of Lectures
1	The Energy Scenario	(5)
1.1	Commercial energy sources -World's production and reserves India' Production and reserves	1
1.2	Energy Alternatives- Need for alternatives -solar options	1
	Principles of solar radiation	
1.3	Solar radiation outside the earth's atmosphere and at the earth's surface , Solar Constant,	1
1.4	Basic Sun-Earth Angles, Instruments for measuring solar radiation and sunshine , Solar radiation data	2
2	Solar Energy	(11)
2.3	Solar thermal collectors -Flat plate collectors	2
2.4	Solar concentrators (parabolic trough, parabolic dish, Central Tower Collector	2
2.5	Solar Air Heaters-types - Solar thermal electric power generation Thermal Energy storage, sensible heat storage, latent heat storage , Thermo chemical storage	2
2.7	Photovoltaic system for power generation	2
2.8	Solar Cells-Types of solar cells , principle of working and performance characteristics, Production process- Block diagram only	2
2.9	Applications- Solar space heating and cooling of buildings, solar pumping, solar cooker, solar still, solar drier, solar refrigeration and air-conditioning, heliostat, solar furnace	1
3	Wind Energy	(6)
3.1	Classification of wind turbines	1
3.2	power performance curve, Energy in wind, calculation of energy content,	2
3.3	Power coefficients, Betz limit theory, , tip speed ratio, solidity of turbine power control strategies	2
3.4	Basic principles of Wind Energy Conversion Systems (WECS), Classification of WECS, Parts of WECS	1
4	Ocean Energy	(6)
4.1	Devices for Wave Energy conversion Ocean Thermal Energy Conversion (OTEC): Principle of OTEC system,	1

4.2	Methods of OTEC power generation – Open Cycle (Claude cycle), Closed Cycle (Anderson cycle) and Hybrid cycle (block diagram description of OTEC)	2
4.3	Geothermal energy: Introduction , hot dry rock resources, magma resources	1
4.4	vapor and liquid dominated systems, binary cycle, advantages and disadvantages	2
5	Bio Mass Energy	(8)
5.1	Biomass conversion technologies –Bio Gasification, Bio ethanol, Bio Diesel	1
5.2	Biogas production from waste biomass, factors affecting biogas generation Bio Gas -KVIC and Janata model.	2
5.3	Hydrogen Energy – various routes for production of Hydrogen energy	1
5.3	Economic Analysis – Initial and annual cost, basic definitions,	1
5.4	present worth calculations, repayment of loan in equal annual installments, annual savings, cumulative saving and life cycle cost	2
5.5	economic analysis of add on solar system, payback period(derivation)	1



PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680501

INTERNSHIP REPORT

Submitted by

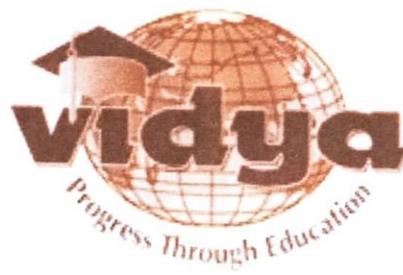
KRISHNAPRIYA K B (VAS19CE051)

NIRMAL NIXON (LVAS19CE117)

POOJA P (VAS19CE067)

SREEKRISHNAN K S (VAS19CE084)

SREELAKSHMI K SAJEEV (VAS19CE085)



Department Of Civil Engineering

VIDYA ACADEMY OF SCIENCE AND TECHNOLOGY,

THALAKKOTTUKARA, THRISSUR - 680501

A handwritten signature in blue ink, appearing to read 'Dr. J. S. Vidya'.

PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

31 Thalakkottukara, P.O.

Thrissur - 680501

GOVERNMENT OF KERALA
PUBLIC WORKS DEPARTMENT
SPECIAL BUILDINGS SECTION, IRINJALAKUDA

To whomsoever it may concern

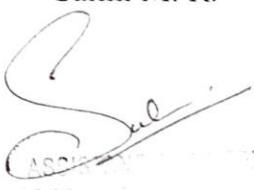
This is to certify that KRISHNAPRIYA K B (VAS19CE051), pursuing her B.Tech (Final year Civil Engineering Degree at Vidya Academy Of Science And Technology, Thalakkottukkara, Thrissur) has successfully completed internship at PWD Special Building Section, Irinjalakuda from 01-12-2022 to 06-12-2022.

We found her sincere, hardworking, technically sound and result oriented. She worked well as part of a team during her tenure. We take this opportunity to thank her and wish her all the best for her future.

Irinjalakuda

22-12-2022

Salini M. R.


PWD SPECIAL BUILDINGS SECTION
IRINJALAKUDA, KERALA



32


PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukkara, P.O.
Thrissur - 680501

GOVERNMENT OF KERALA
PUBLIC WORKS DEPARTMENT
SPECIAL BUILDINGS SECTION, IRINJALAKUDA

To whomsoever it may concern

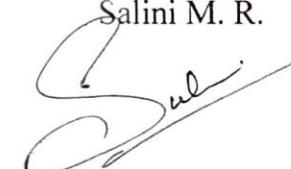
This is to certify that NIRMAL NIXON (LVAS19CE117), pursuing his B.Tech (Final year Civil Engineering Degree at Vidya Academy Of Science And Technology, Thalakkottukara, Thrissur) has successfully completed internship at PWD Special Building Section, Irinjalakuda from 01-12-2022 to 06-12-2022.

We found his sincere, hardworking, technically sound and result oriented. He worked well as part of a team during his tenure. We take this opportunity to thank him and wish him all the best for his future.

Irinjalakuda

22-12-2022

Salini M. R.



ASSISTANT
PWD SPECIAL BUILDINGS SECTION
IRINJALAKUDA - 680 641




PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680501

GOVERNMENT OF KERALA
PUBLIC WORKS DEPARTMENT
SPECIAL BUILDINGS SECTION, IRINJALAKUDA

To whomsoever it may concern

This is to certify that POOJA P (VAS19CE067), pursuing her B.Tech (Final year Civil Engineering Degree at Vidya Academy Of Science And Technology, Thalakkottukkara, Thrissur) has successfully completed internship at PWD Special Building Section, Irinjalakuda from 01-12-2022 to 06-12-2022.

We found her sincere, hardworking, technically sound and result oriented. She worked well as part of a team during her tenure. We take this opportunity to thank her and wish her all the best for her future.

Irinjalakuda

22-12-2022

Salini M. R.


ASSISTANT DIRECTOR
PWD SPECIAL BUILDING SECTION
IRINJALAKUDA - 680 121




PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukkara P.O.
Thrissur - 680501

GOVERNMENT OF KERALA
PUBLIC WORKS DEPARTMENT
SPECIAL BUILDINGS SECTION, IRINJALAKUDA

To whomsoever it may concern

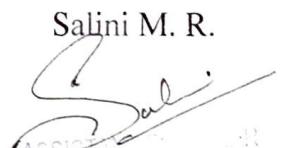
This is to certify that SREEKRISHNAN K S (VAS19CE084), pursuing his B.Tech (Final year Civil Engineering Degree at Vidya Academy Of Science And Technology, Thalakkottukara, Thrissur) has successfully completed internship at PWD Special Building Section, Irinjalakuda from 01-12-2022 to 06-12-2022.

We found his sincere, hardworking, technically sound and result oriented. He worked well as part of a team during his tenure. We take this opportunity to thank him and wish him all the best for his future.

Irinjalakuda

22-12-2022

Salini M. R.


ASSISTANT
PWD SPECIAL
IRINJALAKUDA




PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680501

GOVERNMENT OF KERALA
PUBLIC WORKS DEPARTMENT
SPECIAL BUILDINGS SECTION, IRINJALAKUDA

To whomsoever it may concern

This is to certify that SREELAKSHMI K SAJEEV (VAS19CE085), pursuing her B.Tech (Final year Civil Engineering Degree at Vidya Academy Of Science And Technology, Thalakkottukara, Thrissur) has successfully completed internship at PWD Special Building Section, Irinjalakuda from 01-12-2022 to 06-12-2022.

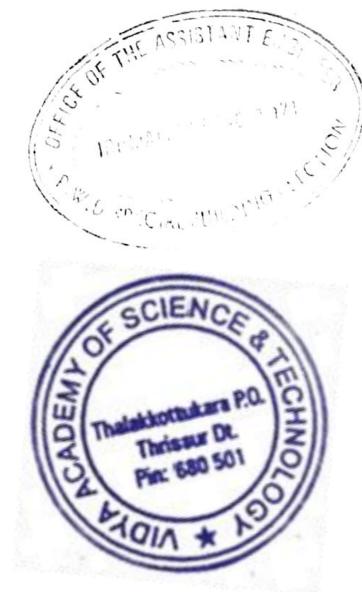
We found her sincere, hardworking, technically sound and result oriented. She worked well as part of a team during her tenure. We take this opportunity to thank her and wish her all the best for her future.

Irinjalakuda

22-12-2022

Salini M. R.


ASSISTANT ENGINEER
PWD SPECIAL BUILDINGS SECTION
IRINJALAKUDA - 680 421




PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680 501

DAY 1

1/12/22

Every building project starts with a study of the land, its characteristics, and the soil. We therefore concentrated primarily on the analysis of the site and its fundamental characteristics.

A court facility was under construction and it was situated on the grounds of the Chalakudy civil station. Prathibha Constructions undertook the project as per the tender they received from PWD. Additionally, we got to meet the engineering team. Sundareshan sir, the site engineer, provided us with further details about the project, the labourers, and all the techniques they employ to construct the edifice.

Additionally, We also got to meet the engineering staff. The Site engineer, Sundareshan sir, gave us more information on the project, the labourers, and all the approaches they use to build the structure.

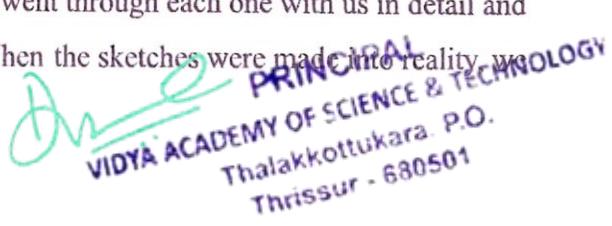
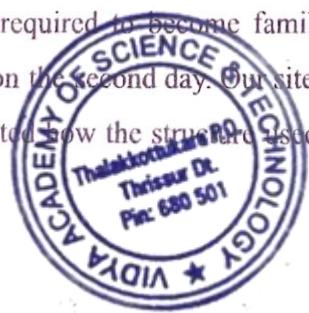


We were simply given an overview of the entire project because it was our very first day on-site. On the days that followed, comprehensive explanations of each component of the structure and key points to remember in its development were provided.

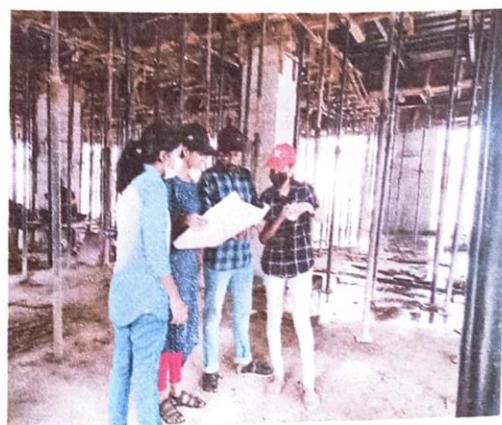
DAY 2

2/12/22

We were required to become familiar with several types of drawings pertaining to the structure on the second day. Our site engineer went through each one with us in detail and demonstrated how the structure used them. When the sketches were made into reality,



had a good understanding of them. Additionally, we were taught how to read several sorts of drawings, including plan and structural drawings.



DAY 3

3/12/22

The third day was dedicated to critical thought. In contrast to the previous day, the site engineer gave us problems to solve based on the data provided the previous day. This allowed us to examine how well we understood the pictures and the framework. We were required to respond to many questions based on the structure's load calculation, quantity surveys, reinforcements, etc. We also gained a clear understanding of the materials used for construction, including their quality, quantity, and price.



We were pleased with that aspect since we could respond to them clearly. Additionally, it provided us with an opportunity to reflect on our knowledge of civil engineering.



[Signature] **PRINCIPAL**
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara P.O.
Thrissur - 680501

DAY 4

5/12/22

We gained knowledge of the many parts of the construction. We were also taught about the impact of load on them. We were also given explanations of each structural component's purpose, in load bearing and providing support to the structure.



We were taught to recognise several kinds of reinforcements in the building's columns, beams, slabs, stairs, and retaining walls. Additionally, it was explained to us about the stirrups, ties, and how the spacing of the bars should be provided. We might also comprehend how these parts ought to be cast and how long they ought to cure before they are strong enough to support the building.

DAY 5

6/12/22



The profitability and survival of every business depend on compliance with safety regulations and training. Additionally, it's critical to save lives and stop industrial injuries, injury, etc.



[Signature] **PRINCIPAL**
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
 Thalakkottukara P.O.
 Thrissur - 680501

On the last day, we learned about the safety precautions that ought to be taken on the building site and the ethical aspects of an industry which helped us to understand the responsibilities towards society, environment, and other stakeholders.

The position of safety officer is a necessity in every industry, according to our site engineer, but it assumes greater significance in the construction sector. Furthermore, we learned about the significance of wearing safety gear such as a helmet, Safety boots, gloves, and a mask when working in the construction industry.

Thus, through this five-day internship program we gained a much wider knowledge about structures, various components of the structure, construction methods and civil engineering as a whole.




PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680501

COSTFORD

**CENTRE OF SCIENCE & TECHNOLOGY
FOR RURAL DEVELOPMENT**

Ayyanthole, Thrissur - 680 003, Kerala, India

Phone : 0487-2365988, 2360788

Email : costfordayyanthole@gmail.com

GSTIN : 32AAACC9140L1ZR, PAN : AAEAC5638D

CERTIFICATE

This is to certify that Ms. Sneha N. S, 5th Semester B. Tech (Civil) Student, Vidya Academy of Science and Technology, Thalakkottukkara, Thrissur has undergone 5 days Industrial Training in this organization from 26.12.2022 to 30.12.2022. She was given exposure to different aspects of Cost and Energy Efficient Construction Technology and Laurie Baker style of Architecture and Construction practices. She was also exposed to actual construction site conditions and shown different stages of construction activities.

Ayyanthole

11.05.2023



S. Ravi
Executive Director
COSTFORD
Ayyanthole, Thrissur-680003



PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukkara, P.O.
Thrissur - 680501



Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

CURRICULAR ACTIVITIES

PROJECT GROUPS S7 CE A

GROUP No.	Roll No	University Reg. Number	Guide	TOPIC	STREAM
GROUP 1			Seetha Pisharikkel	Amendment of landfill clay liner with biochar	GEOTECHNICAL ENGINEERING
1. ARUNIMA K M	28	VAS19CE028			
2. APARNA P S	24	VAS19CE024			
3. DEVIKA M V	38	VAS19CE038			
GROUP 2			Amrutha Krishnankutty	Hydraulic analysis and water quality modelling of water distribution network using EPANET software	Water resource
1. ANJALI V V	21	VAS19CE021			
2. ARYA V B	30	VAS19CE030			
3. DEVIKA P M	39	VAS19CE039			
4. AMEESHA M R	15	VAS19CE015			
GROUP 3			Kiran Babu	Experimental investigation on short concrete columns laterally	STRUCTURAL
1. GOKUL G	104	LVAS19CE104			
2. ADARSH K P	5	VAS19CE005			
3. ALISHAN ASHRAF	13	VAS19CE013			
GROUP 4			Amrutha Krishnankutty	Analysis of Institutional water quality and suggestions to reuse them	Water resource
1. AKSHARA VALSON	11	VAS19CE011			
2. APARNA RAJEEV	25	VAS19CE025			
3. MARY PETRA PALSON	114	LVAS19CE114			
4. ANAGHA SHABU	17	VAS19CE017			

PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara, P.O42

Thrissur - 680501





Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

GROUP 5			Roshni V	An Experimental Study of the strengthening of concrete by electronic waste as a partial replacement to coarse aggregate	CONCRETE(Structural)
1.DEVIKA V S	40	VAS19CE040			
2.ATHIRA CHANDRAN	32	VAS19CE032			
3.ANASWARA	19	VAS19CE019			
4.LIJUDAS BABU	112	LVAS19CE112			
			Ardra	FLEXURAL BEHAVIOR OF BEAMS	CONCRETE(Structural)
				WITH RCA AND	
				GGBFS AS SUSTAINABLE REPLACEMENT	
				ON COARSE AGGREGATE AND CEMENT.	
GROUP 6			Vandana	Analysis of unsignalised intersection(vazahkkod junction)and suitable remedies and upgradation	Transportation
1.ANU K C	97	LVAS19CE097			
2.ABHISHEK SATHIAN	4	VAS19CE004			
3.GOPIKA M G	105	LVAS19CE105			
4.KRISHNA PRIYA R S	110	LVAS19CE110			
GROUP 7			Kiran Babu A R	Study on flexure behaviour of steel fibre reinforced concrete beam	Structural Engineering
1.NEERAJA R KRISHNAN	131	AJC19CE091			
2.AMAL KRISHNA K B	14	VAS19CE014			
3.ABIN C S	3	VAS19CE003			
4.ADITHYA K J	7	VAS19CE007			
GROUP 8					
1.HELAN DAJU	43	VAS19CE043			
2.ARYA P PRAKASH	29	VAS19CE029			
3.AJSAL MUHAMMED K H	10	VAS19CE010			
4.AKSHAY	12	VAS19CE012			

PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara, P.O.

Thrissur - 680501

43





Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

GROUP 9			Chithra M	Analysis and design of Pandarachira check dam across Manali River	Water resources
1.ANU MARY CHARLY	23	VAS19CE023			
2.ARCHANA T P	26	VAS19CE026			
3.MIDHUNA M K	115	LVAS19CE115			
4.GAUTHAM SOMAN	41	VAS19CE041			
GROUP 10			Nirmala Krishnan	Enamavu Bund Performance Auditing	water resources
1.ANITTA JOHN A	20	VAS19CE020			
2.ABHINAND PRASAD	2	VAS19CE002			
3.ADITHYA K J	6	VAS19CE006			
4.ATHUL KRISHNA K U	34	VAS19CE034			
GROUP 11			Pony Paul	PERFORMANCE EVALUATION OF FLEXIBLE PAVEMENT USING FACE MASK AND FLY ASH AS FILLER MATERIALS	TRANSPORTATION
1.KARTHIKRISHNA M U	109	LVAS19CE109			
2.JOHN ROBI	108	LVAS19CE108			
3.LAKSHMI P	111	LVAS19CE111			
GROUP 12			Chithra M	WASTE WATER TREATMENT WITH MEMBRANE BIO REACTOR	Environmental Engineering
1.ATHUL KRISHNA K S	100	LVAS19CE100			
2.CHRISTIN DAVIS	102	LVAS19CE102			
3.JEEBA JOHNY A	106	LVAS19CE106			
4.DEEPAK BABY V	103	LVAS19CE103			

PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara, P.O.

Thrissur - 680501





Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

GROUP 13			Athulya P	Textile Waste Water Treatment By Adsorption	Environmental Engineering
1.CHRISTY K F	37	VAS19CE037			
2.ARSHA BENNY	27	VAS19CE027			
3.AJAY P P	9	VAS19CE009			
4.ANJANA U	22	VAS19CE022			
GROUP 14			Anu Maria	Jal Jeevan Mission implementation in Pariyaram rural area	water resources engineering
1.ANUPAMA K V	98	LVAS19CE098			
2.AISWARYA SANKAR	8	VAS19CE008			
3.CHANDHU K T	101	LVAS19CE101			
4.ATHUL KRISHNA A	33	VAS19CE033			
GROUP 15			Renjith R	ROAD SAFETY AUDIT OF THANDILAM ROAD	TRANSPORTATION
1.ANANYA M T	18	VAS19CE018			
2.ADITH SIVARAMAN T	94	LVAS19CE094			
3.AMITY JOY	95	LVAS19CE095			
4.ASHISH R	31	VAS19CE031			
GROUP 16			Dr. Abhilasha P.S.	Analysis of coir as geotextile as Filter on embankment dams	GEOTECHNICAL ENGINEERING
1.LISA E S	113	LVAS19CE113			
2.GOUTHAM KARTHIK	42	VAS19CE042			
3.AMMAT SAJEEVAN SANJAY	16	VAS19CE016			
4.ATHUL SAJITH C	35	VAS19CE035			
GROUP 17			Kiran Babu	STRENGTENING OF RC BEAMS USING STEEL WIRE MESH AND SELF- COMPACTING CONCRETE JACKETING.	STRUCTURAL
1.ARUN P M	99	LVAS19CE099			
2.ANJANA UNNIKRISHNAN	96	LVAS19CE096			
3.JINSON DEVASSY	107	LVAS19CE107			
4.ABHILASH K R	1	VAS19CE001			

PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara, P.O.

Thrissur - 680501





Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

A P J ABDUL KALAM TECHNOLOGICAL UNIVERSITY ELIGIBILITY PROFORMA FOR INTER-COLLEGIATE TOURNAMENTS

Name of the Tournament		CHESS			Section : WOMEN		Name of the Manager		KV RAMESH	
Name of the Organising College		JAWAHARLAL COLLEGE OF ENGINEERING AND TECHNOLOGY, LAKKIDI			Zone:	E Zone	Whether Inter-Zonal also....Yes / No			
					Year	2018-19				
Sl.No.	Name	Father's Name	Mother's Name	Address	Date of Birth	Date & year of passing Qualifying examination for first admission to a College / University	Present Class	Name of the Present Course	Duration of Course	
1	2	3	4	5	6	7	8	9	10	11
1	ANJALI ANIL	V ANIL	SANDHYA ANIL	THEKKUTT (H), P.O. KANIMANGALAM, TCR	20.10.97	+2	2015	CE S7	B.TECH	4 YRS
2	SREELAKSHMY K	VINOD KUMAR K	SREEKALA VINOD	LAKSHMINI, MANIDOM RD, PURANATTUKARA, TCR	14.10.97	+2	2015	CE S7	B.TECH	4 YRS
3	AISHWARYA C S	C K SATHYAN	SUDHA SATHYAN	RADHIKALAYAM, KARIKKATH LANE, M G ROAD, TCR	01.01.98	+2	2016	CSE S3	B.TECH	4 YRS
4	DHANYA DEVADAS	P R DEVADAS	JAYA DEVADAS	PUTHUPULLY (H), P.O THOTTIPAL, PALLAM, TCR	06.10.97	+2	2015	CE S7	B.TECH	4 YRS
5	SOFIA C BABU	BABU C JOSE	KOCHUMARY C I	CHIRIYANKANDATH (H), KIZHAKKUMPATTUKARA, TCR	22.09.95	DIPLOMA	2016	CE S7	B.TECH	4 YRS
6	SUKRUTHA K V	VIJAYAN K	SEETHAMANI TS	KOTTARAPPATT KIDANGOOR, MARATHAMCODE P.O, TCR	24.05.98	+2	2016	CE S3	B.TECH	4 YRS

PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara, P.O.

Thrissur - 680501





Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

A P J ABDUL KALAM TECHNOLOGICAL UNIVERSITY ELIGIBILITY PROFORMA FOR INTER-COLLEGIATE TOURNAMENTS

Name of the Tournament		CHESS			Section : MEN		Name of the Manager		K V RAMESH	
Name of the Organising College		JAWAHARLAL COLLEGE OF ENGINEERING AND TECHNOLOGY, LAKKIDI			Zone:	E Zone	Whether Inter-Zonal also...Yes / No			
Sl.N o.	Name	Father's Name	Mother' s Name	Address	Date of Birth	Date & year of passing Qualifying examination for first admission to a College / University	Present Class	Name of the Present Course	Duration of Course	
1	2	3	4	5	6	7				
1	SARATH PETER	PETER JOSEPH M	NANDINI PETER	MALIYAKAL H, GANDHIGRAM, IJK, TCR	02.09.1997	+2	2015	CSE S7	B.TECH	4 YRS
2	ABHIJITH SHEHEER	T K SHEHEER	ADEENA SHEHEER	THALIYAPPADATH(H), P O VADAKKUMMURI, TCR	09.04.2000	+2	2018	CSE S1	B.TECH	4 YRS
3	DILJITH MUCHIRUPARAMBIL	M B PRADEEPKUMAR	BINDU PRADEEP KUMAR	MUCHIRUPARAMBIL(H), CHOWANNOOR, KUNNAMKULAM	09.08.2000	+2	2018	CE S1	B.TECH	4 YRS
4	DEEPAK M PRADEEP KUMAR	M B PRADEEPKUMAR	BINDU PRADEEP KUMAR	MUCHIRUPARAMBIL(H), CHOWANNOOR, KUNNAMKULAM	16.04.1998	+2	2016	ME S5	B.TECH	4 YRS
5	NAVEEN P	RAJAGOPALAN P	PREETHI P	"Navaneeth", KALADI P O, KAVIPADY, EDAPPAL	11.10.1997	+2	2015	ME S7	B.TECH	4 YRS
6	ANANDHU RAM	T K VASANTHAKUMAR	CHITHRA	THINDIYATH (H) RAPPAL P. O PUDUKKAD	28.03.1998	+2	2016	CSE S5	B.TECH	4 YRS


PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
 Thalakkottukara, P.O.
 Thrissur - 680501





Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

A P J ABDUL KALAM TECHNOLOGICAL UNIVERSITY ELIGIBILITY PROFORMA FOR INTER-COLLEGIATE TOURNAMENTS

Name of the Tournament		ATHLETICS			Section : WOMEN		Name of the Manager		ARUNDHATHI SASIKUMAR	
Name of the Organising College		KERALA UNIVERSITY STADIUM			Zone:	E Zone	Whether Inter-Zonal also....Yes / No			
					Year	2019-20				
Sl.N o.	Name	Father's Name	Mother's Name	Address	Date of Birth	Date & year of passing Qualifying examination for first admission to a College / University	Present Class	Name of the Present Course	Durati on of Course	
1	2	3	4	5	6	7	8	9	10	11
1	AIESVARIY A V M	V MURUGARAJ	S PARIMANRAJ AM	CHINTHAMANI, SKVC RD, AYYANTHOLE, CHUN GAM, TCR	26.08.1998	+2	2016	CE S5	B.TECH	4 YRS
2	AMOOLYA K SUDHAKAR AN	SUDHAKARAN KG	AJITHA SUDHAKARA N	KUNNATHUPARAMB IL (H), VELLARAMKUNNU, MUPLIYAM	13.12.1997	DIPLOMA	2018	CE S3	B.TECH	4 YRS
3	NAYATHAR A P V	JANARDHANA N P V	SHYLAJA P V	PATTERIVALAPPIL (H), KANJIYUR MOOKKUTHALA CHANGARAKULAM	17.09.1999	+2	2017	CE S3	B.TECH	4 YRS
4	MADHUMITI HA C	A CHANDRAKU MAR	C KANNAMAL	LAKSHAM COLONY, MUNNAR P.O, IDUKKI	18.03.2000	+2	2018	PE S1	B.TECH	4 YRS
5	SYAMA B	K N ASOKAN	BINDU S	KORACHADATH (H0, AVINISSERY P.O, TCR	09.03.2000	+2	2018	CE S1	B.TECH	4 YRS

PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680501





Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

6	DEEPIKA T	K G RAJEEV	JYOTHILAKSHMI	THONGATH (H), P.O KANJANY, TCR	07.02.1999	+2	2017	CE S3	B.TECH	4 YRS
7	NIVEDHYA P U	UNNIKRISHNAN P R	SHEEJA P G	PALLIPURATHUKKARAN (H), P.O MANKODY, TCR	29.10.99	+2	2017	CE S3	B.TECH	4 YRS
8	VARSHA K K	KARUNAKARAN KV	SWAPNA T H	KAIPARAMBIL (H), THALAKKOTTUKARA P.O, KECHERY	22.01.2000	+2	2017	ECE S3	B.TECH	4 YRS
9	ANJANA P	VINAYAN C	SANGEETHA P	VADAKKUMPURATH PALLIYALIL MELAZHIYAM, ANAKKARA P.O, PALAKKAD	13.04.1998	+2	2016	ECE S3	B.TECH	4 YRS
10	STELLA PAUL	PAUL M A	ALPHONSA K L	MAPRANATHUKKARAN (H), PACHALIPPURAM, VATTANATHRA P O , TCR	16.12.1998	DIPLOMA	2019	EEE S4	B.TECH	4 YRS
11	GREESHMA P S	SUNIL KUMAR P V	SHEELA SUNIL	PANIKKAVALAPPIL (H), VARANDARAPPILLY, TCR	30.04.1999	+2	2016	ME S1	B.TECH	4 YRS
12	ASHWINY MENON	MANOJ KUMAR	YAMUNA	SREESANKARAM PULAPPARAMBIL, POCLAYI BEACH ROAD, MATHILAKAM , TCR	13.01.2001	+2	2019	ECE S2	B.TECH	4 YRS

PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680501





Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

A P J ABDUL KALAM TECHNOLOGICAL UNIVERSITY ELIGIBILITY PROFORMA FOR INTER-COLLEGIATE TOURNAMENTS

Name of the Tournament		ATHLETICS			Section : MEN		Name of the Manager	K V RAMESH		
Name of the Organising College		KERALA UNIVERSITY STADIUM, TRIVANDRUM			Zone:	INTER ZONE	Whether Inter-Zonal also....Yes / No			
					Year	2019-20				
Sl.N o.	Name	Father's Name	Mother 's Name	Address	Date of Birth	Date & year of passing Qualifying examination for first admission to a College / University	Present Class	Name of the Present Course	Duration of Course	
1	2	3	4	5	6	7	8	9	10	11
1	AKHIL SURENDRA N	SURENDRA N	SYAMALA	KOCHUTHUNDIL MUTHUKATUKARA NOORANADU P O ALAPPUZHA	10.07.1997	+2	2016	CE S8	B.TECH	4 YRS
2	ADITHYA VASUDEV T BABU	BABU T N	MININ C P	THRIKKERIYATH (H), ROYAL STREET, CHERUR, TCR	30.09.1999	+2	2017	CE S6	B.TECH	4 YRS
3	AJIL JOSEPH P T	OUSEPH P T	GLADY PJ	PULIKKOTTIL(H), P.O MUNUR, TCR	03.01.2000	+2	2018	ME S4	B.TECH	4 YRS
4	SIBIN P G	GIRISH P V	RAMANI GIRISH	KALARIKKAL (H), POTTUR P.O, TCR	21.10.1998	+2	2017	ME S6	B.TECH	4 YRS
5	MOHAMMED FAYIS C	MOHAMMED HANEEFA	RAHEENA	CHERODATH HOUSE, P.O PURANG, VIA KANJIRAMUKKU	20.05.1998	+2	2016	CE S8	B.TECH	4 YRS
6	SARATH P RAJ	PREMARAJAN M	DEVI M	24/381 "THEERTHAM, PUNKUNAM P.O, TCR	14.12.1999	+2	2018	ME S4	B.TECH	4 YRS

PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680501





Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

7	ASWIN K B	BABU K B	KAVITHA BABU	KANARA (H), S N NAGAR, CHIYYARAM P.O, TCR	05.08.1999	+2	2017	CE S6	B.TECH	4 YRS
8	ARAVIND T S	SUNIL KUMAR T R	BEENA M K	CAPITAL VILLIAGE, BLOCK 3,FLAT NO;G1, PUNKUNNAM, TCR	10.07.1999	+2	2017	PE S6	B.TECH	4 YRS
9	ADARSH K P	PRASANNAN K N	SIJI V V	KARAYIL HOUSE ,P.O KAZHIMBRAM, TCR	16.08.2000	+2	2019	CE S2	B.TECH	4 YRS
10	ARUN K J	JOSHY K R	JULY M K	KALLUMPURAM (H) PO MUNDUR, TCR	19.04.1999	+2	2017	ME S6	B.TECH	4 YRS
11	SREEKANTH V	SURESH KUMAR V	PRASANNA KUMARI	SURESH NIVAS, VENGILASSERY, VELUR P.O,TCR	03.01.2000	+2	2017	ME S6	B.TECH	4 YRS
12	SREEKANTH K M	MANIKANDAN K V	NISHA	KONGASSERI VALAPPIL, EDAPPAL HOUSE, MLP M	08.10.1997	+2	2016	ME S8	B.TECH	4 YRS
13	MIDHUNDAS N M	MOHANDAS M G	SINI MOHANDAS	NEELAMPILLY (H), CHITTILAPILLY P O, TCR	03.06.1998	+2	2016	CSE S8	B.TECH	4 YRS
14	NITHIN P R	PRASSOONA KUMAR B	RAJI S	PUTHUVALLIL (H) THAZHAM SOUTH, CHATHANNOR P.O, KLM	08.07.1999	+2	2017	ME S4	B.TECH	4 YRS
15	SAGAR SAAJAN T	SAAJAN JOSEPH T	SEENA SAAJAN	THANIKKAL CHALISSERY (H), P.O KANDASSANKADAV, TCR	12.10.1998	+2	2017	ECE S4	B.TECH	4 YRS
16	ABIN BABU	BABU T D	MINI BABU	THARAPPEL (H), KADALMAD P O,WAYANAD	14.06.2001	+2	2019	EEE S2	B.TECH	4 YRS
17	SANDES M A	M G ANOOP KUMAR	PRIYA ANOOP KUMAR	MULLAKKARA (H), PERRUMBILLYSSERY, P.O.CHERPU	13.12.1999	+2	2017	CE S6	B.TECH	4 YRS
18	MURALI KRISHNA SHAMMI	SHAMMI KAPUR	LOVELY SHAMMI	SRAMBikal (H), P.O VALAPAD, TCR	28.03.2001	+2	2018	CE S4	B.TECH	4 YRS

PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
 Thalakkottukara P.O.
 Thrissur - 680501





Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

A P J ABDUL KALAM TECHNOLOGICAL UNIVERSITY ELIGIBILITY PROFORMA FOR INTER-COLLEGIATE TOURNAMENTS

Name of the Tournament		BADMINTON			Section : WOMEN		Name of the Manager		Arundhathi Sasikumar	
Name of the Organising College		CHRIST COLLEGE OF ENGINEERING, IRINJALAKUDA			Zone:	E Zone	Whether Inter-Zonal also...Yes / No			
					Year	2018-19				
Sl.No.	Name	Father's Name	Mother's Name	Address	Date of Birth	Date & year of passing Qualifying examination for first admission to a College / University	Present Class	Name of the Present Course	Duration of Course	
1	2	3	4	5	6	7	8	9	10	11
1	SURABHI NAIR	SURESH P	SUJA SURESH	ATHIYARATH(H), KATTAKAMPAL, TCR	19.12.96	+2	2015	CSE S7	B.TECH	4 YRS
2	AATHIRA GANESH	GANESH P	JYOTHI GANESH	VARIYATHODI (H), EZHUVANTHALA P.O, PLKD	12.06.97	+2	2015	CSE S7	B.TECH	4 YRS
3	ANEESHA CHACKO	CHAKKUNNY P K	SHAILAJA CHACKO	PALLATH (H), MUTHUVARA, PUZHAKKAL P.O, TCR	11.09.94	HSE	2012	PE S4	M.TECH	4 YRS
4	ANGELA SAJU	SAJU J CHIRAYATH	SUMA SAJU	CHIRAYATH THARAYIL (H) OLARIKKARA P.O, TCR	10.04.99	+2	2017	CE S3	B.TECH	4 YRS
5	POURNAMI R MENON	RAJESH	PRIYA	RADHENDHU (H), NR KUNNATHRUKOVIL, KODAKARA	05.10.98	+2	2016	CE S5	B.TECH	4 YRS

PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680501





Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

A P J ABDUL KALAM TECHNOLOGICAL UNIVERSITY ELIGIBILITY PROFORMA FOR INTER-COLLEGIATE TOURNAMENTS

Name of the Tournament		BADMINTON			Section : MEN		Name of the Manager		ARUNDHATHI SASIKUMATR	
Name of the Organising College		CHRIST COLLEGE OF ENGINEERING, IRIJALAKUDA			Zone:	E Zone	Whether Inter-Zonal also....Yes / No			
Sl.N o.	Name	Father's Name	Mother's Name	Address	Date of Birth	Date & year of passing Qualifying examination for first admission to a College / University	Prese nt Class	Name of the Prese nt Cours e	Duratio n of Course	
1	2	3	4	5	6	7	8	9	10	11
1	ANAND MARAKKATH SADANANDAN	SADANANDAN	ASHA SADANANDAN	MARAKKATH HOUSE, PERAKAM, CHAVAKKAD	30.12.1998	+2	2016	ME S5	B.TECH	4 YRS
2	MUSFIR N UBAID	N UBAID	REHNA UBAID	NALAKATH (H), KARUKAMADU, P.O KADAPPURAM	03.06.1998	+2	2016	EEE S5	B.TECH	4 YRS
3	ROHITH S M	MANOHAR S S	AMBILY MANOHAR	SANKARANPUZHA (H), MADAYKONAM P.O, THELAPPILLY	13.12.1997	+2	2016	CSE S5	B.TECH	4 YRS
4	MOHAMAD SHABEEN N	N MOHAMED	JAMEELA K	NALAKATH (H), P.O PURANGU, VIA KANJIRAMUKK, PONNANI	23.02.1997	+2	2016	CE S5	B.TECH	4 YRS
5	KRISHNAN C	K V SASIKUMAR	SEENA C	VAIKUNDAM (H), CHITTILAPPILLY P.O, TCR	01.04.2000	+2	2018	CE S1	B.TECH	4 YRS
6	MISHAL T J	JAMAL T A	NISHA P A	THOPPIYIL (H), PERINGOTTUKARA P.O, TCR	08.03.2000	+2	2018	CSE S1	B.TECH	4 YRS
7	ABHINAV SHINE POOVATHUMKADAVIL	P S SHINE	SHILLU SHINE	HOUSE NO:5, SHANTHI GRAM, KOORKENCHERY, TCR	15.06.2000	+2	2018	ME S1	B.TECH	4 YRS
8	CIJO K A	ANTONY K L	ALPHONSA ANTONY	KURUTHUKULANGARA (H), PAZHUVIL P.O, TCR	08.12.1994	DIPLOMA	2018	CE S3	B.TECH	3 YRS

PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara, P.O.

Thrissur - 680501

53





Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

A P J ABDUL KALAM TECHNOLOGICAL UNIVERSITY ELIGIBILITY PROFORMA FOR INTER-COLLEGIATE TOURNAMENTS

Name of the Tournament		KHO KHO			Section : WOMEN		Name of the Manager	ARUNDHATHI SASIKUMAR
Name of the Organising College		VIDYA ACADEMY OF SCIENCE & TECHNOLOGY			Zone:	INTER ZONE	Whether Inter-Zonal also...Yes / No	
					Year	2019-20		
Sl.N o.	Name	Father's Name	Mother's Name	Address	Date of Birth	Date & year of passing Qualifying examination for first admission to a College / University	Present Class	Name of the Present Course
1	2	3	4	5	6	Name of the Examination	Date and Year	Durati on of Course
1	AIESVARIY A V M	V MURUGARAJ	S PARIMANRAJ AM	CHINTHAMANI, SKVC RD, AYYANTHOLE, CHUN GAM, TCR	26.08.1998	+2	2016 CES8	B.TECH 4 YRS
2	AMOOLYA K SUDHAKAR AN	SUDHAKARAN KG	AJITHA SUDHAKARA N	KUNNATHUPARAMB IL (H), VELLARAMKUNNU, MUPLIYAM	13.12.1997	DIPLOMA	2018 CES6	B.TECH 4 YRS
3	SWATHY	SANTHOSH P V	ANITHA SANTHOSH	PANDIRIKKAL (H), THAIKKAD P.O, GURUVAYUR	05.09.1998	+2	2016 CES8	B.TECH 4 YRS
4	MADHUMITA HAC	A CHANDRAKUMAR	C KANNAMAL	LAKSHAM COLONY, MUNNAR P.O, IDUKKI	18.03.2000	+2	2018 PES4	B.TECH 4 YRS
5	NIVEDHYA PU	UNNIKRISHNA N P R	SHEEJA P G	PALLIPURATHUKKARAN (H), P.O MANKODY, TCR	29.10.1999	+2	2017 CES6	B.TECH 4 YRS

PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680501





Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

6	ANJANA P	VINAYAN C	SANGEETHA P	VADAKKUMPURATH PALLIYALIL MELAZHIYAM, ANAKKARA P.O, PALAKKAD	13.04.1998	+2	2016	ECE S6	B.TECH	4 YRS
7	KEERTHANA PRASAD	PRASAD	KAVITHA	"KALINGA", PARAKKOTT LANE NORTH PATTURAICKAL, TCR	17.07.1998	+2	2016	CE S8	B.TECH	4 YRS
8	SOFI THOMAS	THOMAS P J	JISHA	1/356,PLACKAL H, CHELAKUNNA, UPPATTY P.O, THE NILGIRIS, TN	08.12.2000	+2	2018	ECE S4	B.TECH	4 YRS
9	ANILA DINESH	DINESH VIJAYAN	JEVA DINESH	ALATHUKATTIL (H) INCHAMUDI P.O, TCR	13.10.1999	+2	2017	CSE S6	B.TECH	4 YRS
10	NEELIMA MOHAN	MOHANAN C K	NITHA T P	NANDANAM (H) PAZHUR (P.O) KUTTIPURAM	07.01.2000	+2	2017	CSE S6	B.TECH	4 YRS
11	SHIKHA SAJAN	SAJAN K C	SINDHU SAJAN	KUTTIKALAYIL ELANTHOOR EAST.P.O,ELANTHOOR PATHANAMTHITTA	15.12.1999	+2	2017	CSE S6	B.TECH	4 YRS
12	ADITHYA K S	SIVAN K K	VIJAYASREE C K	KUNDOLI (H), KANNAMKOTT, HARIPURAM, KASARKODE	24.01.1999	+2	2016	ECE S8	B.TECH	4 YRS


PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680501





Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

A P J ABDUL KALAM TECHNOLOGICAL UNIVERSITY ELIGIBILITY PROFORMA FOR INTER-COLLEGIATE TOURNAMENTS

Name of the Tournament		KHO KHO			Section : MEN		Name of the Manager		KV RAMESH	
Name of the Organising College		VIDYA ACADEMY OF SCIENCE & TECHNOLOGY			Zone:	INTER ZONE	Whether Inter-Zonal also....Yes / No			
					Year	2019-20				
Sl.N o.	Name	Father's Name	Mother 's Name	Address	Date of Birth	Date & year of passing Qualifying examination for first admission to a College / University	Present Class	Name of the Present Course	Duration of Course	
1	2	3	4	5	6	7	8	9	10	11
1	AMAL BABU	BABU P V	SHEEJA BABU	PANANCHERY (H), P.O. M G KAVU, TCR	25.05.1998	+2	2016	ME S8	B.TECH	4 YRS
2	BIJITH KV	CHANDRASEKH ARAN KV	SHEEJA K	THEKKEPAT HOUSE P O CHAMRAVATTAM MALAPPURAM	16.03.2000	+2	2018	ME S4	B.TECH	4 YRS
3	DIBIN C R	RAPPAL C T	GRACY VA	CHIRAYATH HOUSE THIROOR M.G KAVU PO THRISSUR	22.05.1998	+2	2017	ECE S6	B.TECH	4 YRS
4	P S PRABHITH KUMAR	P V SUBHASH KUMAR	K S PREET HA	F/212, MAYURA APARTMENTS,CHUNGAM, AYY ANTHOLE P.O	02.09.1998	+2	2016	ME S8	B.TECH	4 YRS
5	JOSEPH FRANCIS	FRANCIS CJ	REENA	CHUNDAKATIL(H), PUDUKKAD, PUDUKKAD P.O, TCR	15.10.1999	+2	2017	ME S6	B.TECH	4 YRS

PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680501





Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

6	MANUEL SIMON	K J SIMON	ANITHA SIMON	KARIMPEECHI PUTHAN PURAYIL (H), P.O PULLAZHI, TCR	02.12.1997	+2	2016	ME S8	B.TEC H	4 YRS
7	DELVIN DENNY	DENNY CT ALIAS RAPPAL C T	GRACY V A	CHIRAYATH (H), THIROOR, MULANKUNNATHUKA VU P O, TCR	07.07.2001	+2	2019	ME S2	B.TEC H	4 YRS
8	MOHAMMED SAFWAN P	ABDUL JALEEL P	AYISHA	POOTHERI (H) MUTTANUR P O, MALAPPURAM	07.03.2001	+2	2019	EC E S2	B.TEC H	4 YRS
9	AYOOB A ZAINUDHEE N	ZAINUDHEE N A P	NADEER A K M	VIRUTHIYIL, PUNNAYURKULAM, PUNNAYURKULAM	08.06.1999	+2	2017	CE S6	B.TEC H	4 YRS
10	HRITHIK SUKUMARAN	SUKUMARA N T C	SAJITHA K D	THATTAMPARAMBIL (H), ERAVIMANGALAM P O, TCR	16.02.2001	+2	2019	ME S2	B.TEC H	4 YRS
11	ANKITH PAUL BENNY	BENNY P PAUL	JANCY BENNY	PUTHENVEETTIL (H), KUMARANELUR P.O, TCR	14.05.1997	DIPLOM A	2018	CE S6	B.TEC H	4 YRS
12	LONESH SIMON	SIMON T L	LAINY	THAIKKADAN THIROOR, M G KAVU O.O, TCR	19.11.1998	DIPLOM A	2019	ME S4	B.TEC H	4 YRS

PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara P.O.
Thrissur - 680501





Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

The following students have represented College **Kabaddi team (WOMEN)** in the APJ AKTU Chess Championship held at NSS Engineering College, Palakkad from 31st October & 1st November 2022.

SI.No	Name	Department
1	Ashwiny Menon	ECE S7
2	Sreelakshmi S	ECE S5
3	Sandra J	ECE S7
4	Pooja A R	ECE S7
5	Gayathri P A	ECE S1
6	Akshara Rajeev	ECE S1
7	Namitha P Menon	CSE S3
8	Ima T S	CSE S1
9	Anupama Vinod	CSE S1
10	Ashna Merlin	EEE S7
11	Sneha N S	CE S5
12	A S Pooja Lakshmi	CE S3

PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara, P.O.

Thrissur - 680501





Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

The following students have represented College **Kabaddi team (MEN)** in the APJ AKTU Chess Championship held at NSS Engineering College, Palakkad from 31st October & 1st November 2022.

Sl.No	Name	Department
1	Adarsh K P	CE S7
2	Joel Joseph	CE S7
3	Athul Krishna V A	CE S5
4	Adharsh K S	CE S5
5	Gopu Surjith	CE S5
6	Hrithik Sukumaran	ME S7
7	Muhammad Yasin	ME S5
8	Abijith E	CS S3
9	Sai Sayooj K	CS S3
10	Gagan Udyuth	CS S3
11	Nikhil P H	EE S5
12	Anirudh K S	EC S3

PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara P.O.
Thrissur - 680501





Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

The following students have represented **Tug of War team (Women)** in the APJ AKTU E Zone Inter Collegiate Competition to be held at Royal Engineering College, Akkikavu on 23rd December 2022.

SI.No	Name	Department
1	Ashna Merlin	EEE S7
2	Vishnu Preema	ECE S7
3	Sandra J	ECE S7
4	Mourya P P	ECE S7
5	Remya Babu	ECE S7
6	Angel Shaju K	ECE S3
7	Smidhi M Suresh	ME S5
8	Diya A J	CE S5
9	Asha K A	CE S5
10	Anupama Vinod	CSE S1

PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara P.O.
Thrissur - 680501





Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

The following students have represented **Tug of War team (Men)** in the APJ AKTU E Zone Inter Collegiate Competition to be held at Royal Engineering College, Akkikavu on 23rd December 2022.

Sl.No	Name	Department
1	Gopu Surjith	CE S5
2	Satyajith G	ME S5
3	Sayooj K Sudheeran	EEE S3
4	Fayiz Muhammed K	CE S5
5	Jinu G	MCA S1
6	Limjo P Joson	ME S7
7	Athul N	CE S5
8	Renil V O	ME S7
9	Abhijith E C	CE S5
10	Akhil K P	CE S5

PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara, P.O.

Thrissur - 680501





Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

NSS -Unit 200 students

Name	Male (M) / Female (F)	Semester	Course	Admission Year	Enrollment ID
Abhishek P Ambady	M	S1	MECHANICAL ENGINEERING	2021	200132021
Adarsh P S	M	S1	ELECTRICAL AND ELECTRONICS ENGINEERING	2021	200282021
ADITHYAN CV	M	S1	ELECTRICAL AND ELECTRONICS ENGINEERING	2021	200052021
AKASH M ANIL	M	S1	MECHANICAL ENGINEERING	2021	200302021
AKHILA M	F	S1	ELECTRONICS AND COMMUNICATION ENGINEERING	2021	200212021
Albino Shaju	M	S3	ELECTRONICS AND COMMUNICATION ENGINEERING	2021	200462021
ANOOPDAS. V	M	S1	MECHANICAL ENGINEERING	2021	200452021
Arjun rageev	M	S1	MECHANICAL ENGINEERING	2021	200072021
Aswin M	M	S1	COMPUTER SCIENCE AND ENGINEERING	2021	200362021
Christon Antony	M	S3	MECHANICAL ENGINEERING	2021	200472021
Devanand P M	M	S1	MECHANICAL ENGINEERING	2021	200062021
JIBIN FRANCIS	M	S3	MECHANICAL ENGINEERING	2021	200492021

PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara, P.O.

Thrissur - 680501





Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

Krishnaveni VB	F	S1	ELECTRONICS AND COMMUNICATION ENGINEERING	2021	200202021
MERIN JAMES	F	S1	COMPUTER SCIENCE AND ENGINEERING	2021	200292021
NAVYA K P	F	S1	ELECTRONICS AND COMMUNICATION ENGINEERING	2021	200262021
P TARUN KUMAR	M	S1	ELECTRICAL AND ELECTRONICS ENGINEERING	2021	200092021
Parvathy	F	S1	ELECTRONICS AND COMMUNICATION ENGINEERING	2021	200232021
RISHIKESH KRISHNAN K	M	S1	ELECTRICAL AND ELECTRONICS ENGINEERING	2021	200112021
Sanju P Joju	M	S1	ELECTRICAL AND ELECTRONICS ENGINEERING	2021	200022021
Sona ks	F	S3	ELECTRONICS AND COMMUNICATION ENGINEERING	2021	200252021
Sruthy TR	F	S1	COMPUTER SCIENCE AND ENGINEERING	2021	200182021
Theertha Vivek	F	S1	ELECTRONICS AND COMMUNICATION ENGINEERING	2021	200332021

PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680501





Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

Gender list as on date 21.08.2023

Summary of Gender of Students (2022-23)												
Year	2018		2019		2020		2021		2022		Total	
	Male	Female	Male	Female								
B TECH			362	179	366	207	316	149	300	149	1344	684
MCA			0	0	0	0	17	42	25	35	42	77
M TECH			0	0	0	0	6	20	5	5	11	25
Ph.D	0	1	0	0	0	2	0	0	1	3	1	6
Total	0	1	362	179	366	209	339	211	331	192	1398	792
	1		541		575		550		523		2190	



PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara P.O.
Thrissur - 680501



Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

SELF-DEFENCE TRAINING FOR NSS VOLUNTEERS



The NSS units of Vidya organised a training in self-defence for NSS volunteers on 08 July 2018 at the College Auditorium. Mr Jose, Trainer, explained the need for getting a training in self-defence. As many as 210 NSS volunteers benefited from the programme.



PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680501



Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

SEMINAR ON “MENTAL HEALTH” ORGANIZED BY THE WOMEN EMPOWERMENT CELL

വിദ്യാ അക്കാദമി ഓഫ് സയൻസ് ആൻഡ് ടെക്നോളജി, തൃശ്ശൂർ
&
കേരള വനിതാ കമ്മീഷൻ

ജില്ലാതല സമിനാർ വിഷയം: മാനസിക ആരോഗ്യം



ഉദ്ഘാടനം:
ശ്രീമതി എം സി ജോസഫേൻ
(ചെയർപോഴ്സൻ, കേരള വനിതാ കമ്മീഷൻ)

മുഖ്യപ്രാബല്യം:
ഡോ. എം എം ബഷീർ
(റീ. ഡി. എം. എ.)

പ്ലാറ്റ് ഫോം: ഗുഗ്ലിൽ മീറ്റ്
(<https://meet.google.com/was-pzsu-vfu?hs=122&authuser=1>)
(<https://youtu.be/e47dsF9lwQs>)
27 - 01 - 2021, ബുധൻ
സമയം : രാത്രി 7.00 മുതൽ - 8.30 വരെ

പാലതി വിശദീകരണം:
അഡ്യ. ശിജി ശിവജി
(കേരള വനിതാ കമ്മീഷൻ അംഗം)

A seminar on “Mental Health” was organized by the Women Empowerment Cell of Vidya, jointly with Kerala Women’s Commission, on 27 January 2021 from 7 PM to 9 PM via Google Meet. The programme was also streamed live in YouTube.



The programme began with a silent prayer. Dr Abhilasha P S (Asso Prof, CE Dept) welcomed everyone to the seminar. Dr Saji C B, Principal, presided over the function and emphasized the significance of mental health. Smt M C Josephine, Chairperson, Kerala Women’s Commission graced the occasion and delivered the inaugural address. She talked about the dowry system in Kerala and emphasized that students must be vigilant and proactive in holding discussions on justice for women. This was followed by the main talk on “Mental Health” by Dr M M Basheer, Retired District Medical Officer, Thiruvananthapuram. It was a very informative session and the students were really happy. Adv Shiji Sivaji, Member, Kerala Women’s Commission felicitated the gathering. Ms Akhila R (AP, EEE Dept) presented a formal vote of thanks.

PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara, P.O.

Thrissur - 680501





Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

**YOUR
FUTURE
STARTS
FROM HERE**

**18 Nov
2020**

www.vidyaacademy.ac.in

Welcome to all our first year
Students to the **AICTE - VIDYA**
Student Induction
Programme

Vidya Academy of Science & Technology

Affiliated to APJ Abdul Kalam Technological University & Approved by AICTE
A Unit of Vidya International Charitable Trust
Thalakkottukara P.O., Kecheri, Thrissur - 680501, Kerala, India
8281795555, 9947117184, 8089740591

UNIVERSAL HUMAN VALUES

Organized By

Vidya Academy of Science and Technology

From 18th November 2020 to 28th November 2020

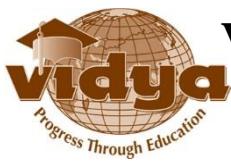


PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara, P.O.

Thrissur - 680501



Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

ABOUT VIDYA ACADEMY

Vidya Academy of Science & Technology (VAST) is a state-of-the-art engineering college conforming to

international standards. This model engineering college is approved by AICTE vide approval NO./06/ KER/ENGG/2002/91 dated 12/05/03 and affiliated to APJ Abdul Kalam Technological University. In few years VAST has evolved and achieved recognition as a notable School of Engineering with its competent and committed faculty, high quality infrastructure and high technology teaching aids, and by providing a serene atmosphere that complements academic life. VAST has a holistic approach to education where academic training goes hand in hand with offerings that develop the body, mind and soul to prepare its graduates to be future leaders.

ABOUT THE PROGRAMME

The AICTE Induction programme was aimed at making comfortable the students to their new environment.

The programme was intended to help promote bonding within students, build relations with their mentors and give a broader view of life. At the start of the induction, the incumbents learn about the institutional policies, processes, practices, culture, and values, and their mentor groups are formed. Then the different activities start, including those which are daily. This time, the student induction programme is proposed to conduct through virtual mode (online mode) due to the pandemic issues without compromising the quality

and content proposed by the AICTE within the maximum possible availability.

OBJECTIVES OF THE PROGRAMME

1. Help students develop academically along with an understanding of society and relationships
2. Character building
3. Make new students feel comfortable, allow them to explore their academic interests
4. Promote bonding within students, build relations with teachers and give a broader view of life



PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara, P.O.

Thrissur - 680501



Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

Modules for AICTE Induction Programme at Vidya Academy of Science & Technology

I) Universal Human Values – Students were trained in various human values through experiential learning. This session was handled by the tutors. Students discussed various human values such as Personal aspirations and Family expectations, gratitude, competition, ragging, peer influence, self-confidence, prosperity, and anger.

Students discussed in their groups the various human values and they came up with outcomes for developing human values.

II) Presentation skills – During the period students engaged in developing presentation skills. Based on the human values discussed, students discussed and developed presentation which were presented before their tutors.

III) Talk by experts- Expert talks on topics such as Social Responsibilities, Cyber Security, Drug Abuse and addiction; and Stress Management and Relaxation Techniques.

IV) Literary Activity- Aims at developing communication skills through reading, writing, debating, etc.



PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara, P.O.

Thrissur - 680501



Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

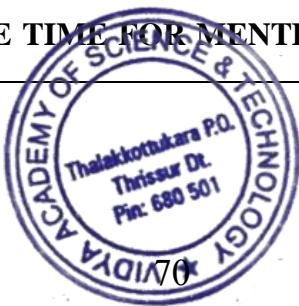
Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

Programme Schedule

Time	Programme	Topic
Wednesday 18 November 2020		
9.00 – 9.30	Registration	Through google Form by Respective Department Tutors
		Inaugural schedule
10.00 – 12.00	Ms. Akhila R, AP, Department of EEE, VAST	Invocation
	Dr. N Ramachandran, HOD, ME, VAST	Welcome Speech
	Dr. Saji C B, Principal, VAST	Presidential Address
	Dr Santhosh Prasannan, CHAIRMAN, Vidya International Charitable Trust	Inauguration & Inaugural Address
	Mr. Sabu Saumian, Executive Committee Member, Vidya International Charitable Trust	Address by Chief Patron
	Er. G. Mohanachandran, Executive Director, Vidya International charitable trust	Address by ED
	Mr. Suresh Lal, Finance & Administrative Director, Vidya International charitable trust	Address by A & FD
	Dr. Sudha Balagopalan, Dean Academics, VAST	Address by Dean Academics
	Dr. V N Krishnachandran, Vice Principal, VAST	Address by Vice- Principal
	Mr. Suresh Karun, PTA President, VAST	Felicitation
	Mr. Hareesh K, AP, Department of ME, VAST & Convener eSIP2020	Vote of Thanks
12.15 – 1.30	CSE Department Orientation	Handled by respective depts (Through ZOOM platform)
02.00 – 3.15	ECE Department Orientation	
03.45 – 5.00	ME Department Orientation	
12.15 – 1.30	EEE Department Orientation	Handled by respective depts (Through Google meet platform)
12.15 – 1.30	CE Department Orientation	Handled by respective depts (Through Google meet platform)
5.15 – 6.00*	Mentor-Mentee Interaction	Discussion with (20 students/Group) Respective GTs (Google meet platform)

***GTs CAN DECIDE THE TIME FOR MENTEE-MENTOR INTERACTION**




PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara. P.O.
Thrissur - 680501



Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

Thursday 19 November 2020

9.30 – 11.30	Talk (SOCIAL RESPONSIBILITIES " BEING HUMAN")	Ms. Asha T V, Student Counsellor, VAST, (Through ZOOM platform)
2.00 – 2.45	Universal Human Values	Discussion with (20 students/Group) Respective GTs (Google meet platform)
4.00 – 4.45	Creative Discussion on Respective day Talk & Informal Interaction	Discussion with (20 students/Group) Respective GTs (Google meet platform)

Friday 20 November 2020

9.30 – 11.30	Talk (CYBER ISSUES AND TRAPS)	Police officer from CYBERDOME, Government of Kerala, (Through ZOOM platform)
2.00 – 2.45	Universal Human Values	Discussion with (20 students/Group) Respective GTs (Google meet platform)
4.00 – 4.45	Creative Discussion on Respective day Talk & Informal Interaction	Discussion with (20 students/Group) Respective GTs (Google meet platform)

Saturday 21 November 2020

10.00 – 10.45	Universal Human Values	Discussion with (20 students/Group) Respective GTs (Google meet platform)
2.00 – 04.00	Talk (DRUG ABUSE AND ADDICTION)	Dr. Sebinth Kumar, M.B.B.S, MD, Assistant Professor, Department of Psychiatry, Govt. Medical College, Thrissur. (Through ZOOM platform)
4.00 – 4.45	Creative Discussion on Respective day Talk & Informal Interaction	Discussion with (20 students/Group) Respective GTs (Google meet platform)

PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara, P.O.

Thrissur - 680501



Friday 27 November 2020



Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

Monday 23 November 2020

9.30 – 11.30	Talk (STRESS MANAGEMENT & RELAXATION TECHNIQUES)	Dr. Vineetha Aravind, Clinical Psychologist, Psytech, Thrissur (Through ZOOM platform)
2.00 – 2.45	Universal Human Values	Discussion with (20 students/Group) Respective GTs (Google meet platform)
4.00 – 4.45	Creative Discussion on Respective day Talk & Informal Interaction	Discussion with (20 students/Group) Respective GTs (Google meet platform)

Tuesday 24 November 2020

9.30 – 11.30	Presentation preparation by student teams	(Google meet platform)
2.00 – 2.45	Universal Human Values	Discussion with (20 students/Group) Respective GTs (Google meet platform)
3.00 – 4.30	Student Presentation on Universal Human Values	Discussion with (20 students/Group) Respective GTs (Google meet platform)

Wednesday 25 November 2020

9.30 – 11.30	Presentation preparation by student teams	(Google meet platform)
2.00 – 2.45	Universal Human Values	Discussion with (20 students/Group) Respective GTs (Google meet platform)
3.00 – 4.30	Student Presentation on Universal Human Values	Discussion with (20 students/Group) Respective GTs (Google meet platform)

Thursday 26 November 2020

9.30 – 11.30	Presentation preparation by student teams	(Google meet platform)
2.00 – 2.45	Universal Human Values	Discussion with (20 students/Group) Respective GTs (Google meet platform)
3.00 – 4.30	Student Presentation on Universal Human Values	Discussion with (20 students/Group) Respective GTs (Google meet platform)



PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara, P.O.

Thrissur - 680501



Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

9.30 – 11.30	Presentation preparation by student teams	(Google meet platform)
2.00 – 2.45	Universal Human Values	Discussion with (20 students/Group) Respective GTs (Google meet platform)
3.00 – 4.30	Student Presentation on Universal Human Values	Discussion with (20 students/Group) Respective GTs (Google meet platform)

Saturday 28 November 2020

Valedictory Schedule

9.30 – 11.00	Ms. Akhila R, AP, Department of EEE, VAST	Invocation
	Ms. Divya Radhakrishnan, AP, Department of HUMANITIES	Welcome Speech
	Dr. Saji C B, Principal, VAST	Presidential Address
	Dr. Sudha Balagopalan, Dean Academics, VAST	Address by Dean Academics
	Dr. V N Krishnachandran, Vice Principal, VAST	Address by Vice- Principal
	Feedback sharing by students	
	Mr. Hareesh K, AP, Department of ME, VAST & Convener eSIP2020	Vote of Thanks
11.15 – 12.00	Feedback Collection (Through Google Forms) & Regular Academic Schedule Explanation and code of conduct	Discussion with (20 students/Group) Respective GTs (Google meet platform)
	<u>https://bit.ly/eSIP2020</u>	ZOOM Platform link for Inauguration, Valedictory & Invited Talks
		GOOGLE Meet Link for UHV Discussion



PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara. P.O.

Thrissur - 680501



Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

Tutor Allocation and Team leaders

Branch	Tutors
CE	Ms. Kalyani Vijayakumar
	Ms. Nirmala Krishnan
	Mr. Nithin Mohan
	Ms. Seetha Pisharikkal
CSE	Mr. Amal Ganesh
	Ms. Remya PS
	Ms. Silpa KS
	Ms. Sreemol
ECE	Ms. Sandhya VG
	Ms. Fettsy k Francis
	Mr. Sojan Francis P
	Ms. Sarika K T
EEE	Ms. Neeraja A Poduwal
	Mr. Vishnu Rach
ME	Mr. Aadars M S
	Mr. Cinto P A
	Mr. Sarath Babu Ramachandran
	Mr. Vibin Antony P

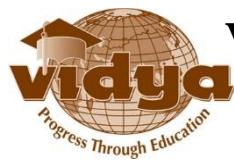


PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara, P.O.

Thrissur - 680501



Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

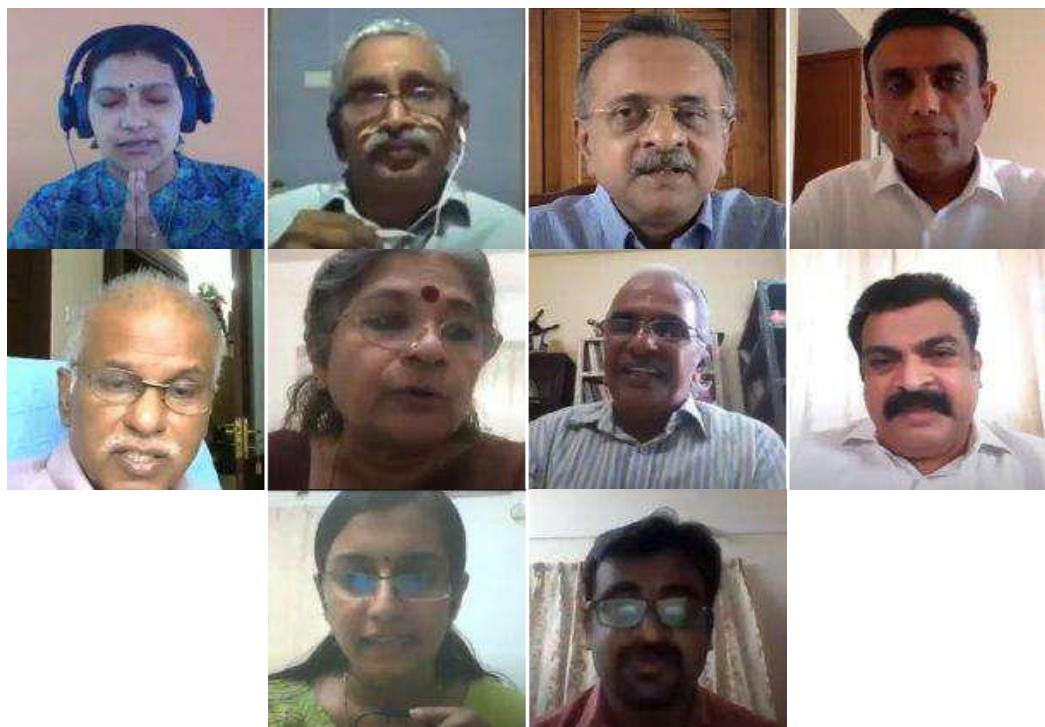
Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

18.11.20 – Inauguration of AICTE Induction Programme 2020

The AICTE Induction programme was formally inaugurated in an online programme held on 18 November 2020.

The newly admitted students and their parents were welcomed by Dr N Ramachandran, (Prof and head, ME dept). Dr Saji CB, Principal, presided over the function. Dr. Santhosh Prasannan, Chairman, VICT, formally inaugurated the programme. Mr. Suresh Lal, Administration and Finance Director, Mr. Sabu Soumian, Executive Committee Member, VICT, Dr Sudha Balagopalan, Dean Academics, Dr. V.N. Krishnachandran, Vice-Principal and Mr. Suresh K Karun, President, PTA, felicitated the programme. Mr. Hareesh K, (AP, ME dept and Convenor, Sameeksha) proposed vote of thanks.



After the inaugural session parents and students attended the online department orientation. Following this, students had the first interaction with their tutors.

PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara, P.O.

Thrissur - 680501





Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

Expert Talks (19th to 23rd November 2020)

Talk 1: – 19-11-2020, Thursday

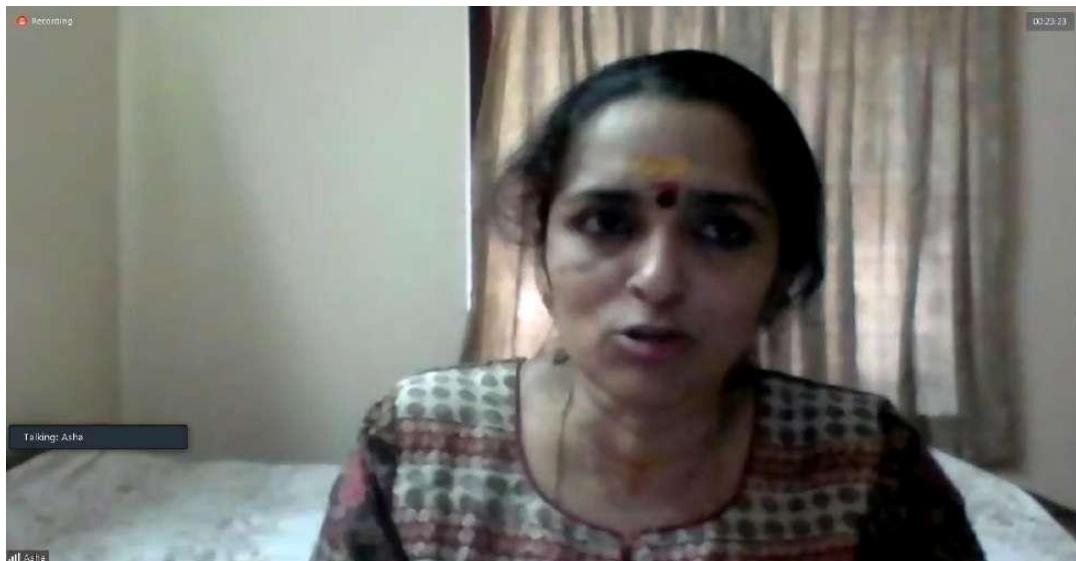
I) Social Responsibilities – Being Human

The first Invited talk of the AICTE Induction programme was conducted on 19.11.2020 from 9.30 to 11.30 AM. The resource person was Ms. Asha TV, Student Counsellor, Vidya Academy of Science and Technology. She handled the session “Social Responsibilities- Being Human”.

Ms. Divya Radhakrishnan, Assistant Professor, AS Dept. welcomed the resource person and the participants to the session. During the course of the session, Ms. Asha TV first introduced Vidya and its ideals. Going forward she described her role in Vidya as the counselor.

She then discussed about the responsibilities of a student towards oneself, towards the college, towards his family, towards the society and towards the nation. She described how important it is to care for oneself. One should be aware of one’s thoughts, mind and body.

The talk came to an end with a Vote of Thanks by Mr. Anil Paul, Assistant Professor, Mechanical Engineering department.



PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680501

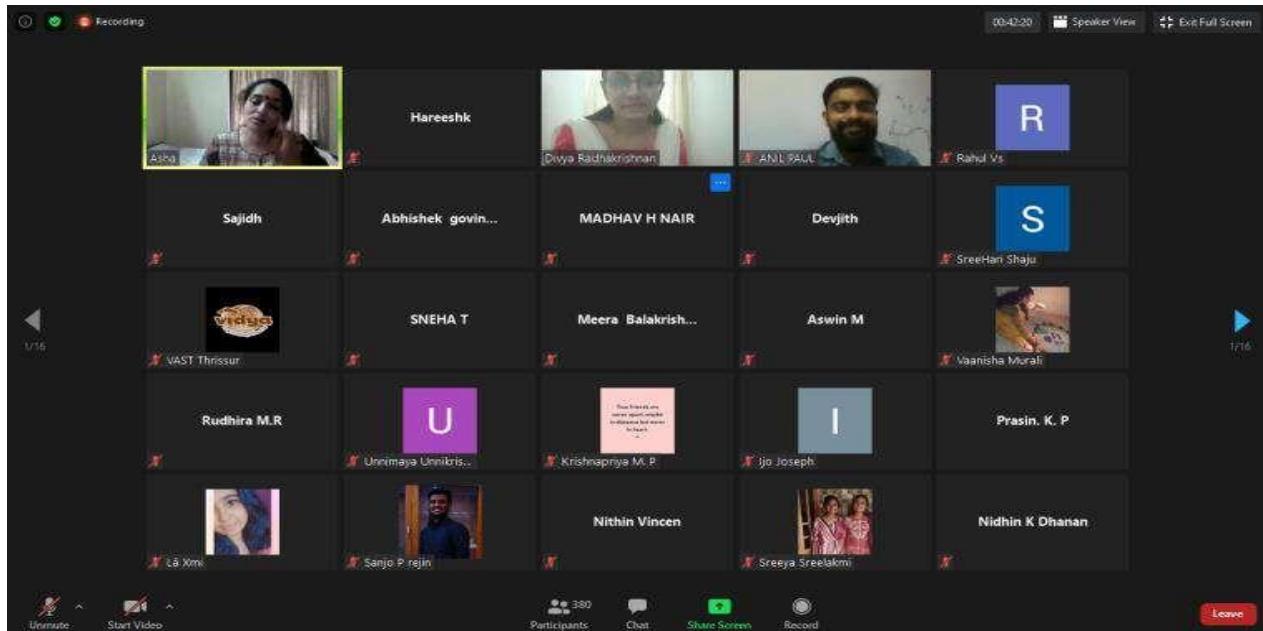


Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366



77

PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680501



Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

Talk 2: – 20-11-2020, Friday

I) Cyber Issues and Traps

The second invited talk of the AICTE Induction programme was conducted on 20.11.2020 from 9.30 to 11.30 AM. The resource persons were Assistant Police Sub-Inspector, Mr. Santhosh.K. S and Civil Police Officer, Mr. Srirag. P. P. They handled the session “CYBER ISSUES AND TRAPS”.

Ms. Lakshmi N S, Assistant Professor, Production Engineering Department, welcomed the guest speakers and the participants to the session. During the course of the session, the guest speakers discussed about the case studies related to Debit card cloning, Key Logger, SMS spoofing, Call spoofing, Ransomware, Cyber stalking, Picture morphing, Social trolling, Profile hacking, Online games, Job call letter, Deep fakes, Dating website and Camera hacking.

At the end of the session, they interacted with students and clarified so many doubts from the participants. The talk came to an end with a Vote of Thanks by Mr Biju P V, Assistant Professor, Mechanical Engineering department.

Call Spoofing

Call spoofing happens through apps that enable a person with criminal intent to change one's number and voice to impersonate another to defraud the receiver.

Diagram:

- Eve** (Pretends to be Alice)
- True Caller: Alice**
- Callee: Bob**

Sequence of events:

- (1) auCall
- (2) State@auCall = idle
- (3) State@inCall = dialing

Result: **Spoofing Detected!**

Information:

- International incoming calls **will have '+' sign prefix** displayed on phone screens
- For local calls, there **won't be a '+' prefix**

This measure will help consumers who are not expecting any over-the-air calls to be more vigilant and exercise greater care when answering calls should be exercised, says the Infocomm Media Development Authority

EXAMPLE 1 +6955 0221 **EXAMPLE 2** +4241 2345

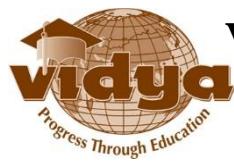
VAST Thrissur **MADHAV H NAIR**



PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara, P.O.
Thrissur - 680501

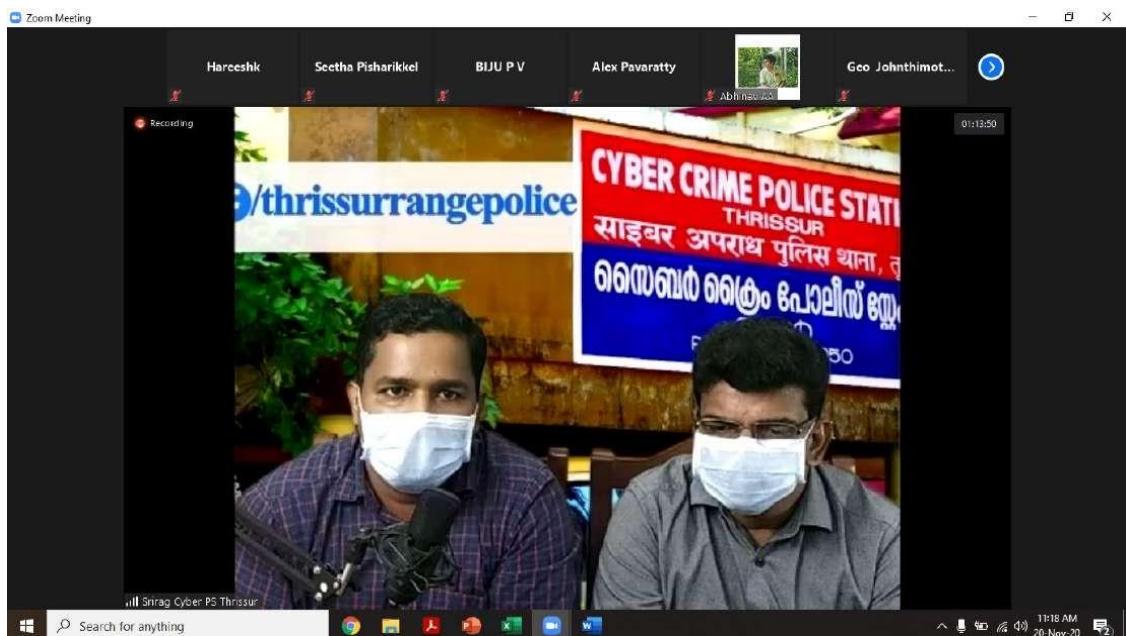


Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366



PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara, P.O.

Thrissur - 680501



Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

Talk 3: – 21-11-2020, Saturday

I) Drug Abuse and Addiction

The third Invited talk of the AICTE Induction programme was conducted on 21.11.2020 from 02.00PM to 04.00 PM. The resource person was Dr. Sebind Kumar, M.B.B.S, MD, Assistant Professor, Department of Psychiatry, Government Medical college, Thrissur. He handled the session on “DRUG ABUSE AND ADDICTION”.

Ms. Anooja V S, Assistant Professor, EEE Department welcomed the resource person and the participants to the session.

He started with his speech by sharing his recent professional experience related to the drug addiction. He then explained in detail about the following points: use vs abuse vs dependence, danger of drug abuse, Bio-psycho-social causes and Reward pathway in brains, Muller line illusions, ADHD and how to heal from the addiction, how to managing and eliminate anxiety, stress and Anger management techniques, meaning and purpose of life,

After the speech, students interacted with the speaker and have answered all the questions raised by the students.

The talk came to an end with a Vote of Thanks by Mr. Hareesh K, Assistant Professor, Mechanical Engineering department.



PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara. P.O.

Thrissur - 680501



Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

Talk 4: – 23-11-2020, Monday

I) Stress Management and Relaxation Techniques

The fourth invited talk of the AICTE Induction programme was conducted on 23.11.2020 from 9.30 A.M to 11.30 AM. The resource persons were Dr. Vineetha Aravind who is a Soft skills trainer and a psychologist with more than 7 years of experience in training and counseling and Mr. George C.V who is an Engineer and Soft skills trainer with three decades of experience in the corporate world and 7 years of experience in training.

Dr. Mary P. Varghese, HoD, Electrical and Electronics Engineering Department, welcomed the guest speakers and the participants to the session.

During the course of the session, the guest speakers discussed about various stressors, identify as adult or child, mild stress is requirement, Eustress, Fight or flight, New responsibilities, What next in life?, Stressors change in life, Panic attack, Relaxation techniques, exercises for building confidence and stress release, Importance of remaining focused, change in Education scenario especially in new normal, Love and accept oneself deeply and completely, Real time examples were mentioned, Difference between reacting and responding, tapping points for relaxation, Laser focusing on goals important to the individual, taking next small steps when you are having doubts, Depression and techniques to reduce them, Exercises can reduce the physical symptoms that cause problems due to stress, ask for help and talk to people when you are going through a stressful situation, techniques to make out whether your friends are depressed and offer a helping hand and tryingly to be like Piglet A lot of relaxation exercises were performed during the session and the participants thoroughly enjoyed and gave a wonderful feedback on the session.

The talk came to an end with a Vote of Thanks by Ms. Akhila R., Assistant Professor, Electrical & Electronics Engineering Department.

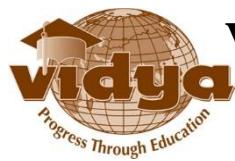


PRINCIPAL

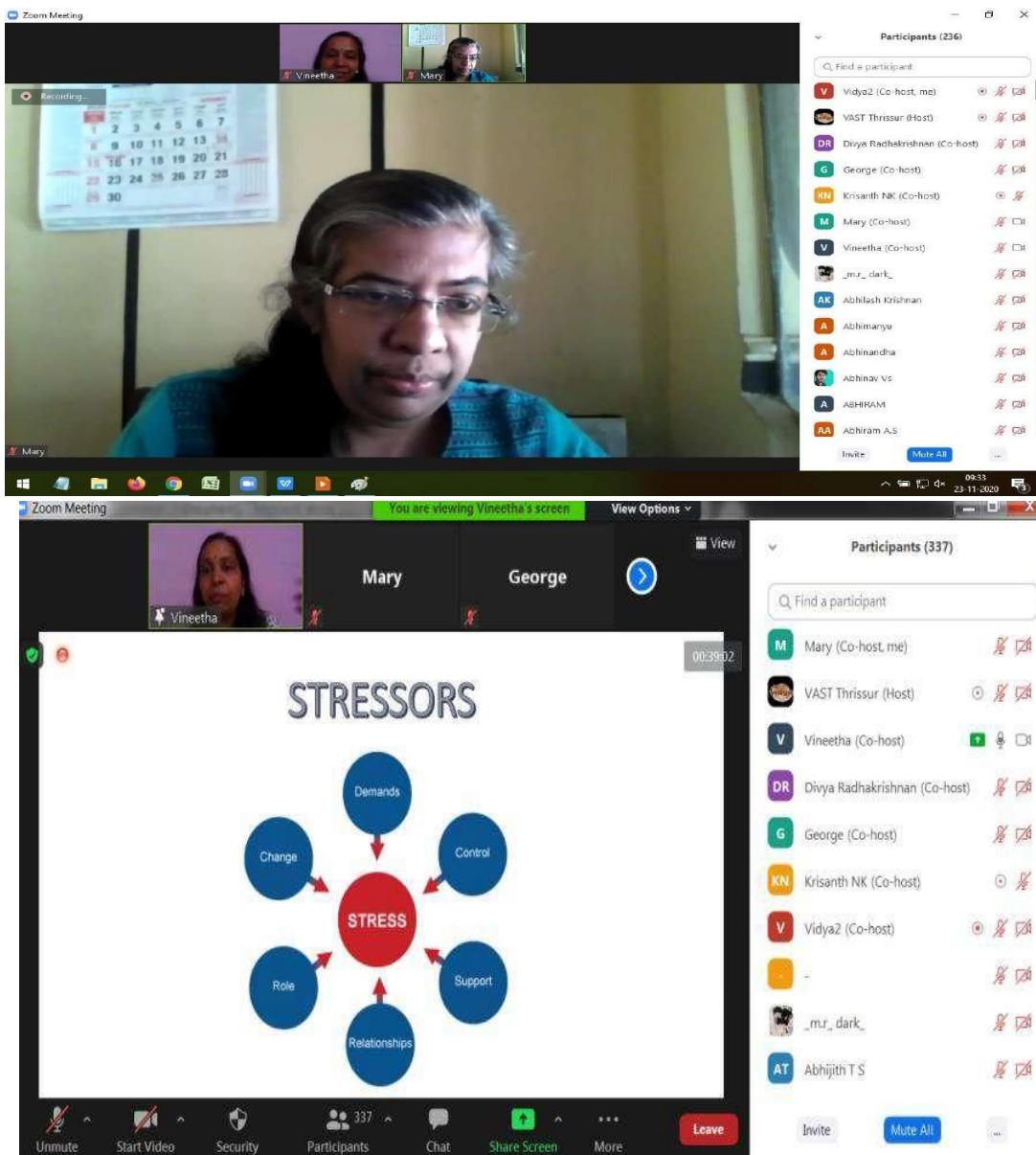
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara, P.O.

Thrissur - 680501



Vidya Academy of Science & Technology
(A unit of Vidya International Charitable Trust)
Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501
Phone: +91-4885-287751, 287752, Fax: 288366



PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680501



Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

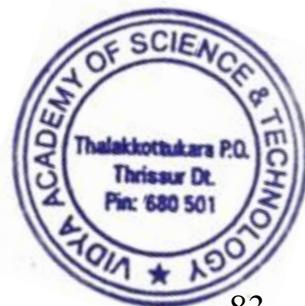
Valedictory Function



The valedictory function of the induction programme was conducted online on 28th November 2020.

Ms. Divya Radhakrishnan, Assistant Professor, Applied Sciences and Humanities and Joint Convenor, Sameeksha welcomed all to the function. Dr Saji CB presided over the function. Dean Academics, Dr Sudha Balagopalan and Vice Principal, Dr. V.N. Krishnachandran addressed the audience.

Students of various branches gave their feedbacks about the programme. They shared the experiences and how the 10-day induction programme had been a wonderful journey towards their entry to Vidya. Mr. Hareesh K, Assistant Professor, Mechanical Engineering department and Convenor, Sameeksha proposed the Vote of thanks.



PRINCIPAL

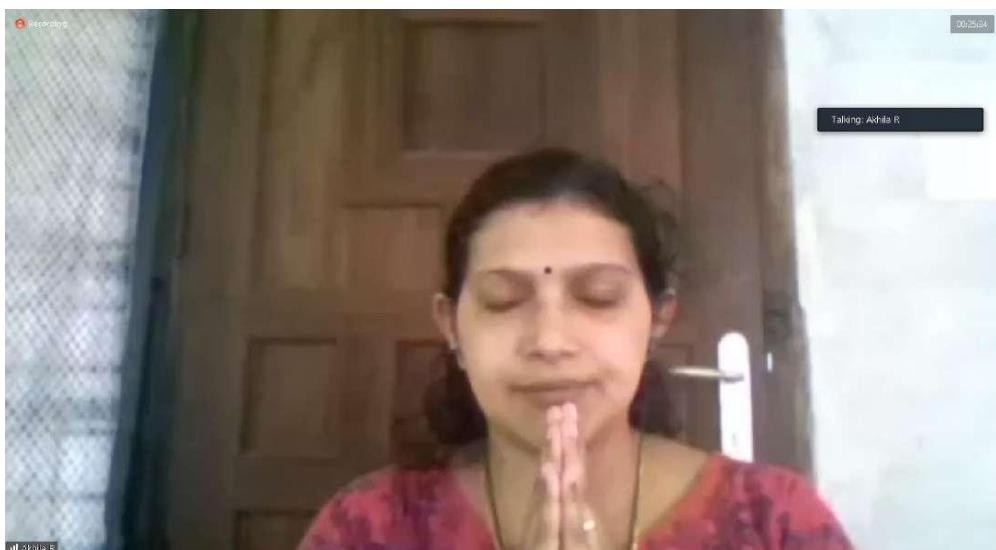
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara. P.O.

Thrissur - 680501



Vidya Academy of Science & Technology
(A unit of Vidya International Charitable Trust)
Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501
Phone: +91-4885-287751, 287752, Fax: 288366



PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680501

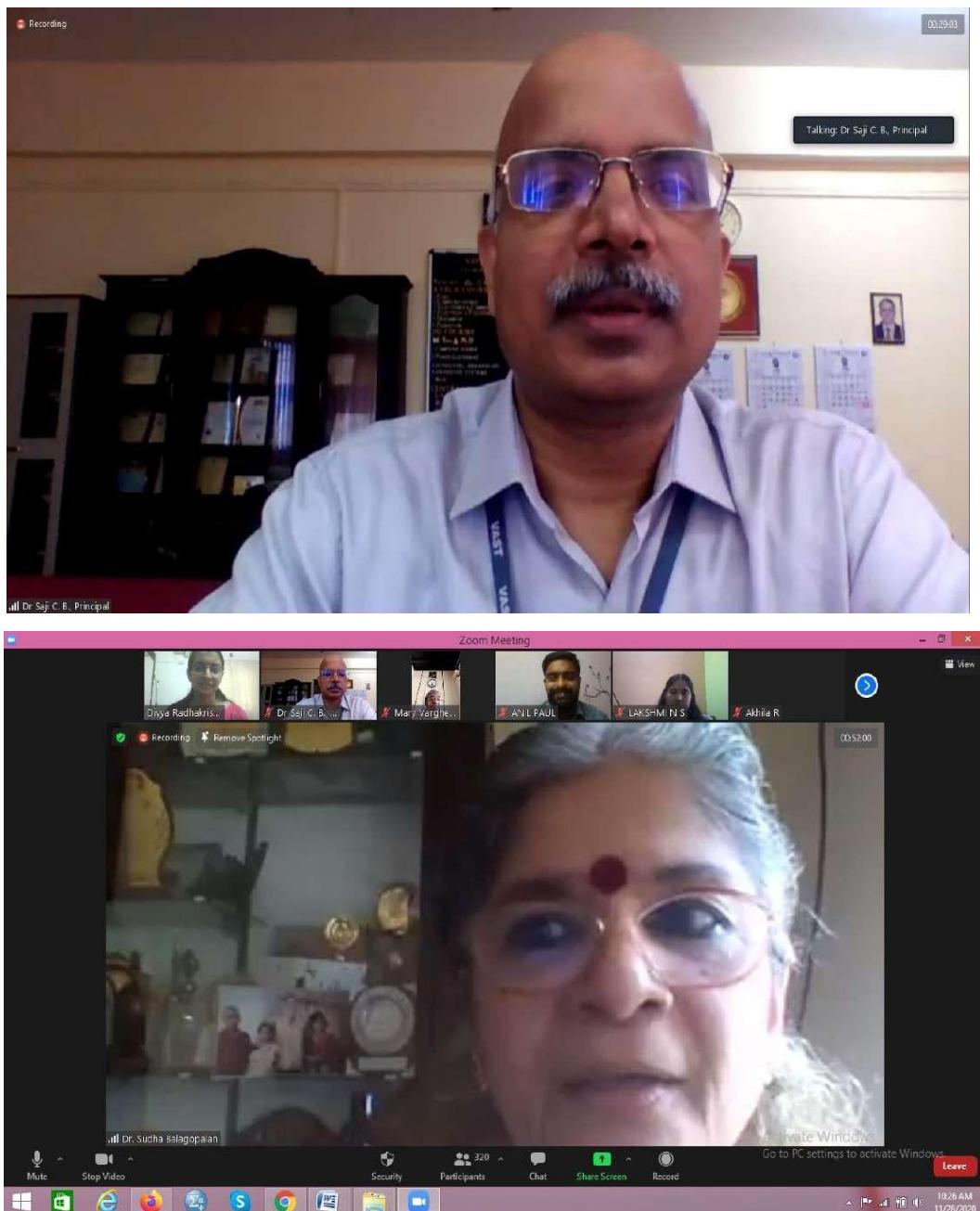


Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366



PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680501

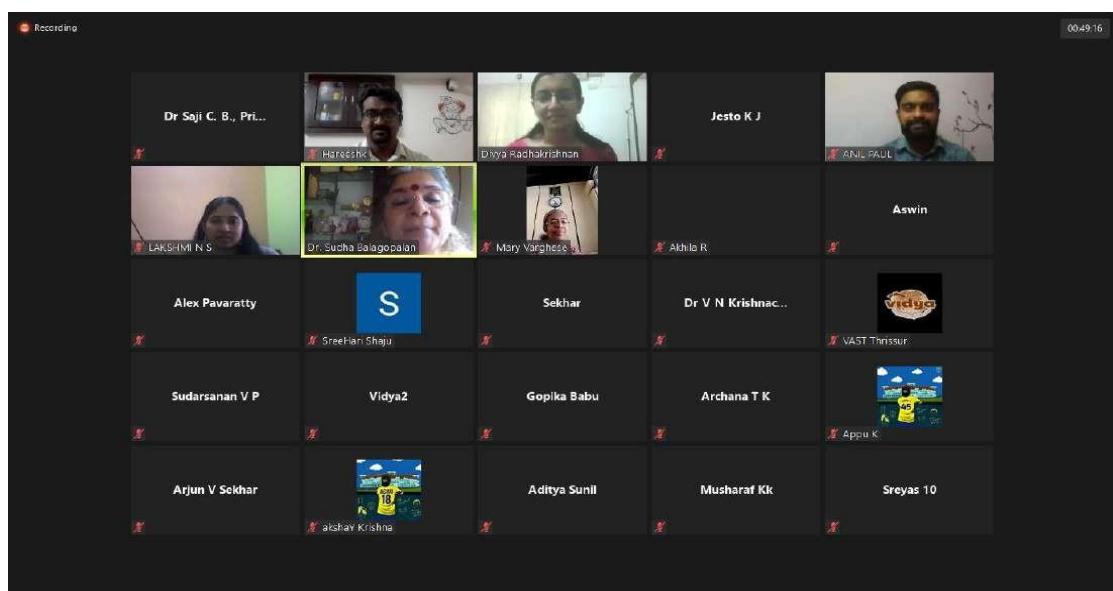
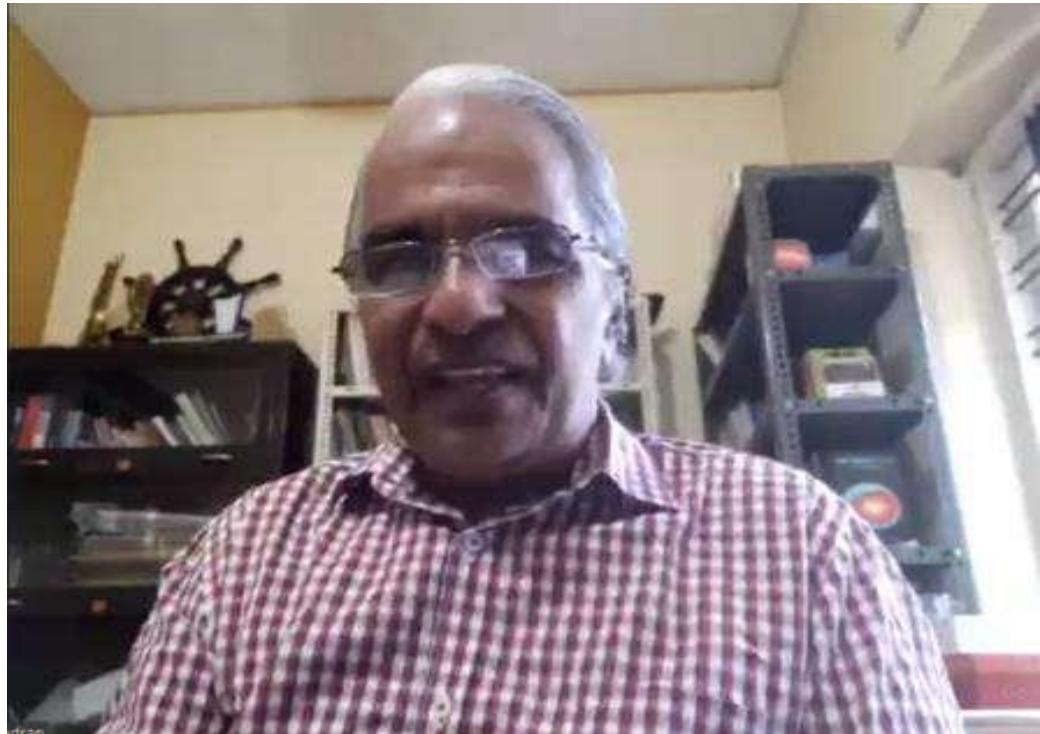


Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366



PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara, P.O.

Thrissur - 680501

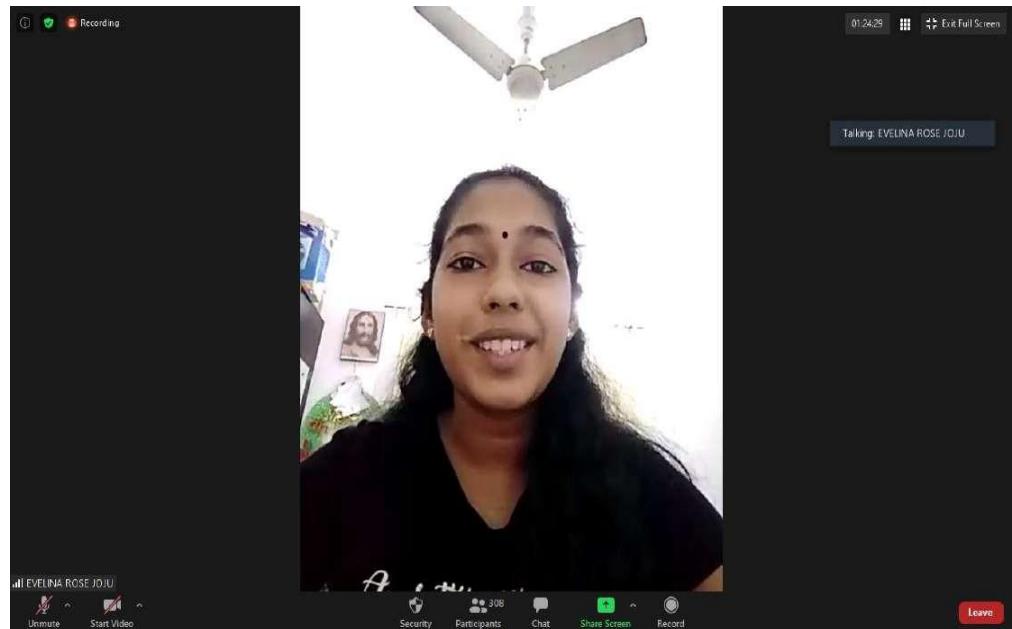


Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366



87

PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara, P.O.

Thrissur - 680501



Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

AICTE INDUCTION PROGRAMME FOR FRESHERS 2020

(An initiative of Sameeksha Trainers' Club, VAST)

Session Feedback Analysis

18-11-20 to 28-11-20

A Content		Excellent	Very Good	Fair	Poor	%
1	Your rating on Day 1 Talk "SOCIAL RESPONSIBILITIES - BEING HUMAN" by Ms. Asha T V, Student Counsellor, VAST	220	133	97	0	81.83
2	Your rating on Day 2 Talk "CYBER ISSUES AND TRAPS" by Police officer from CYBERDOME, Government of Kerala	263	89	98	0	84.17
3	Your rating on Day 3 Talk "DRUG ABUSE AND ADDICTION" by Dr. Sebinth Kumar, M.B.B.S, MD, Assistant Professor, Department of Psychiatry, Govt. Medical College, Thrissur.	244	110	91	0	82.67
4	Your rating on Day 4 Talk "STRESS MANAGEMENT AND RELAXATION TECHNIQUES" by Dr. Vineetha Aravind & Team, Clinical Psychologist, Psytech, Thrissur	207	140	90	13	80.06
5	Your rating on interaction with tutors	270	90	90	0	85.00
6	Your overall rating of the eSIP Programme	250	108	92	0	83.78
Overall Feedback Percentage		82.92 %				



PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara, P.O.

Thrissur - 680501



Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

BEHIND THE SCREEN

AICTE INDUCTION PROGRAMME COORDINATION TEAM

Advisors	Er G Mohanachandran	Executive Director, VICT
	Mr. Suresh Lal	Finance & Administrative Director, VICT
	Dr C B Saji	Principal, VAST
	Dr Sudha Balagopalan	Dean Academics, VAST
AICTE- VIDYA Online Induction Programme (eSIP) Convener	Mr. Hareesh K	AP, ME & Convener SAMEEKSHA
AICTE – VIDYA Online Induction Programme (eSIP) Core Committee Members	Ms. Divya R	AP, AS&H & Co-Convener SAMEEKSHA
	Ms. Akhila R	AP, EEE & Secretary SAMEEKSHA
	Mr. Alex C C	AP, ME & Treasurer SAMEEKSHA
	Mr. Anil Paul	AP, ME & Member SAMEEKSHA
	Dr. Mary P Varghese	HOD, EEE & Member SAMEEKSHA
	Ms. Anooja V S	AP, EEE & Member SAMEEKSHA
	Ms. Lakshmi NS	AP, PE & Member SAMEEKSHA
	Mr. Biju P V	Asso. Prof. & Member SAMEEKSHA
Department Orientation Coordination Team	Dr. Abhilasha P S	Asso. Prof, CE Department
	Ms. Geethu P C	AP, CSE Department
	Mr. Krishnakumar M	AP, EEE Department
	Mr. Suraj Rajappan	AP, ECE Department
	Dr. Rakesh Hari	AP, ME Department



PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara P.O.

Thrissur - 680501



Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

Group Tutor Coordination Team	Ms. Sunitha C	Asso. Prof, CSE & Convener VSSC
	Dr. Vineetha CP	AP, Applied Sciences & Jt. Convener VSSC
Technical Team	Mr. Sivadasan E T	Asso. Prof. CSE & System Manager
	Mr. Shali KR	Server Administrator, ITIMS
	Mr. Martin. P. R.	Computer Programmer, ITIMS
	Mr. Krisanth N.K	Technical Support Associate, ITIMS
Publicity & Media Team	Mr. Arun K L	AP, ME Department

Resource Persons Details

Resource Persons	SOCIAL RESPONSIBILITIES- BEING HUMAN	Ms. Asha T V	Student Counsellor, VAST
	CYBER SECURITY	Mr. Santhosh K.S, SI & Mr. Srirag. P. P, CPO	CYBERDOME, Government of Kerala
	DRUG ABUSE AND ADDICTION	Dr. Sebinth Kumar	M.B.B.S, MD, AP, Department of Psychiatry, Govt. Medical College, Thrissur.
	STRESS MANAGEMENT AND RELAXATION TECHNIQUES	Dr. Vineetha Aravind & Mr. George C V	Clinical Psychologist, Psytech, Thrissur & Life Skill Trainer



PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara. P.O.
Thrissur - 680501



Paper Reports

விடு என்னியிருங்கோல்ஜில்
உள்ளெல்ல ஹஸ்யக்ஷன் போடுவாரா.

ເວລືອກົມືອງນິ ອະນຸມັດ ອະນຸມັດ ອະນຸມັດ ອະນຸມັດ
Wednesday, 18 November 2020 <https://epaper.deshan.lk>

வியயிற் காஸ்லைப் ஹஸ்யக்ஷன்
ப்ரைமா ஹெத்தில்

കേരള കാമ്പി

വിദ്യഹരിക്കിയറിംഗ് കോളേജിൽ ഓൺലൈൻ ഇന്റർക്സിസ് പ്രോഗ്രാം ഇന്ന് മുതൽ

കേരുച്ചരി: വിദ്യ എൻഡിസിനിയറിന്റെ കോളേജിൽ പുതുതായി പ്രേരിന്ന് അഭ്യന്തരം ആരംഭിക്കുന്ന വിദ്യാർത്ഥികൾക്കും കാണിക്കേണ്ടില്ല സ്വയക്ഷണം ആരംഭിക്കുന്ന വിദ്യാർത്ഥികൾക്കും കാണിക്കേണ്ടില്ല ലൈബ്രറിയിൽ ആരംഭിക്കുന്ന വിദ്യാർത്ഥികൾക്കും കാണിക്കേണ്ടില്ല പാടി സംഘടിപ്പിക്കുന്നത്. വിദ്യാർത്ഥികൾക്കും കാണിക്കേണ്ടില്ല

KERALA KAUMUDI EPAPER
Clipping Kerala Kaumudi - Thrissur



PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680581

91



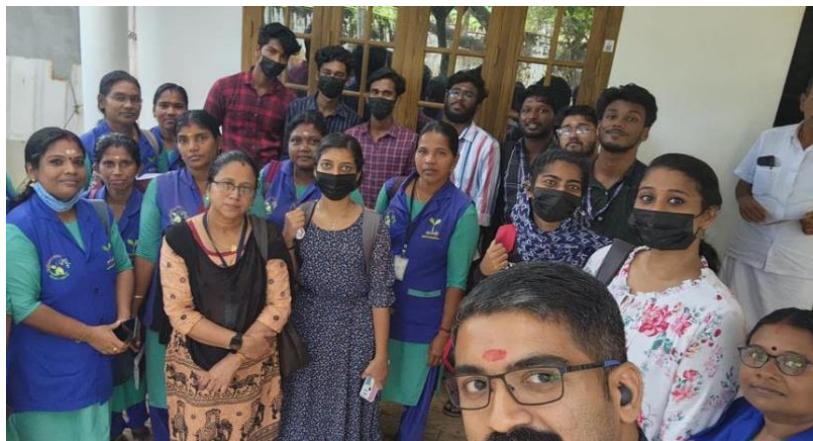
Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

FIELD SURVEY



The Volunteers of NSS units of Vidya conducted a survey on 16 October 2022 at Chavakkad about Harithamithram app. Prior to the session, a training class was conducted by Mr Anil M (Asst Prof, ECE Dept) about how to use the Android application. The program was inaugurated by Mr Umar (Councillor, Chavakkad Municipality). Each Volunteer Team was accompanied by panchayath members for helping them in all the activities. The volunteers were able to collect information directly by scanning QR code. Co-ordinator, Haritha Karma Sena appreciated the involvement of all Volunteers. Mr Shine P Xavier (Programme Officer and Asst Prof, CSE Dept) co-ordinated the event.

The Harithamithram app helps local bodies to monitor the field activities of Haritha Karma Sena members and redress grievances. The app comes with a provision to file complaints so that authorities can initiate immediate redressal measures.



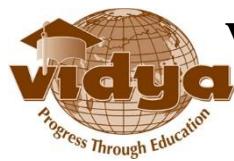
PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara. P.O.

Thrissur - 680501





Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

BLOOD DONATION CAMP



As a celebration and observance of the International Women's Day, the NSS units of Vidya, in association with Government Medical College, Thrissur, organized a Blood Donation Camp in the College Auditorium on 8 March 2019. NSS volunteers enthusiastically participated in the programme and as many as 120 volunteers donated blood. As part of the arrangements, light refreshments were provided to the blood donors and lunch to the members of the medical team. The blood donors were also provided with blood donation certificates.

PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara P.O.

Thrissur - 680501





Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

Drug Awareness Campaign



The volunteers took part in a drug awareness program christened 'Lahari Virudha Keralam' on 01 November 2022. The program was conducted in collaboration with the Velur Panchayath and the Health Department. The volunteers participated in the 1 km rally and performed a flashmob at various places on the theme 'Drug Awareness'. The volunteers made placards and posters regarding the program and actively volunteered in the traffic management during the program. About 50 volunteers participated in this event and made it a great success.

PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara, P.O.

Thrissur - 680501





Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

Social outreach program- NSS



Our NSS volunteers of VAST TC uphold the need of selfless service by conducting social outreach programs. The NSS volunteers of Vidya cleaned Mulagunnathukkavu Railway Station on 02 October 2022. The program was inaugurated by Ms Ananthalakshmy (Station Master, Mulagunnathukkavu Railway Station).

Tools and Refreshments were provided for the volunteers by the Station officials. The volunteers cleaned the premises. Mr Rajesh S K (NSS Programme Officers and Asso Prof, EEE Dept) co-ordinated the event.

PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara, P.O.

Thrissur - 680501





Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

SOLAR PANEL



Thalakkottukara, Kerala, India
North Block, Thalakkottukara, Kerala 680501, India
Lat 10.627544°
Long 76.145008°
14/05/24 02:18 PM GMT +05:30

Google



PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara, P.O.

Thrissur - 680501



Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

PRACTICAL SESSION ON SUSTAINABLE ENERGY



The Innovation and Entrepreneurship Development Centre (IEDC) of Vidya organised practical sessions on sustainable energy for the benefit of the final year B Tech students. One of the sessions was on solar energy as part of which the students examined and learned the working of the solar panel installation, battery and inverter facility and solar water heater facility all available in the College. The other session was on Bio-gas Unit, Water Treatment and Waste-Water Treatment facilities in the campus of Vidya. The resource persons for the sessions were Mr Gopalakrishnan C S and Mr Binesh M K, both of whom are technical staff in the service of VICT. As many as 65 students participated in the event which was conducted on 14 February 2019.



[Signature]
PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680501



Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

RAINFALL HARVESTING



PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680501



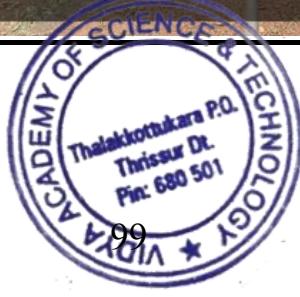
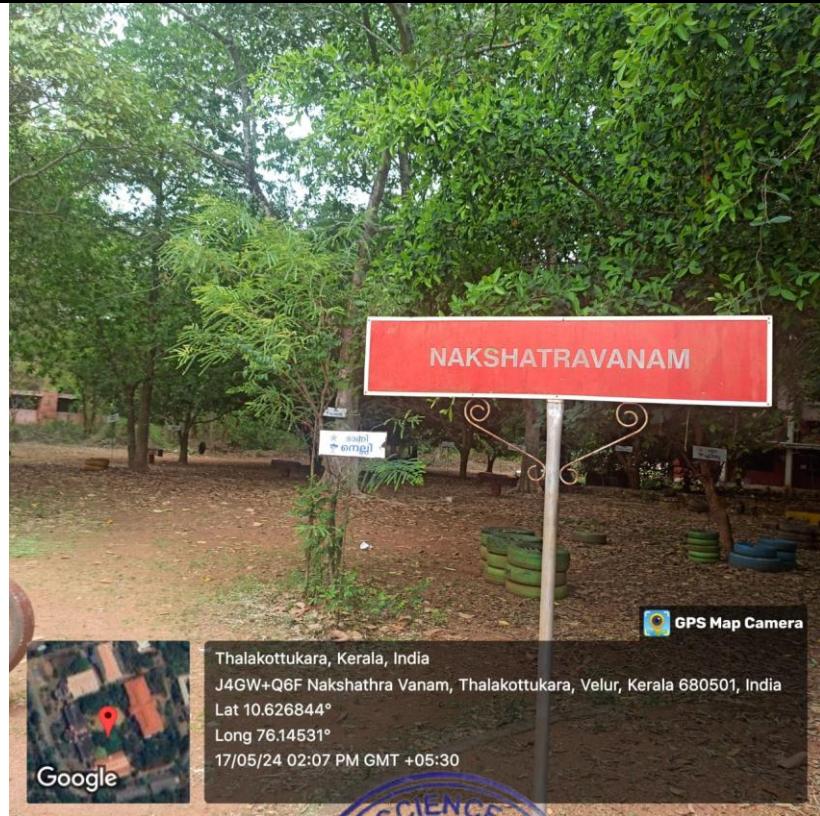
Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

NAKSHATHRAVANAM



PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680501



Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

NAKSHATHRAVANAM




PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680501



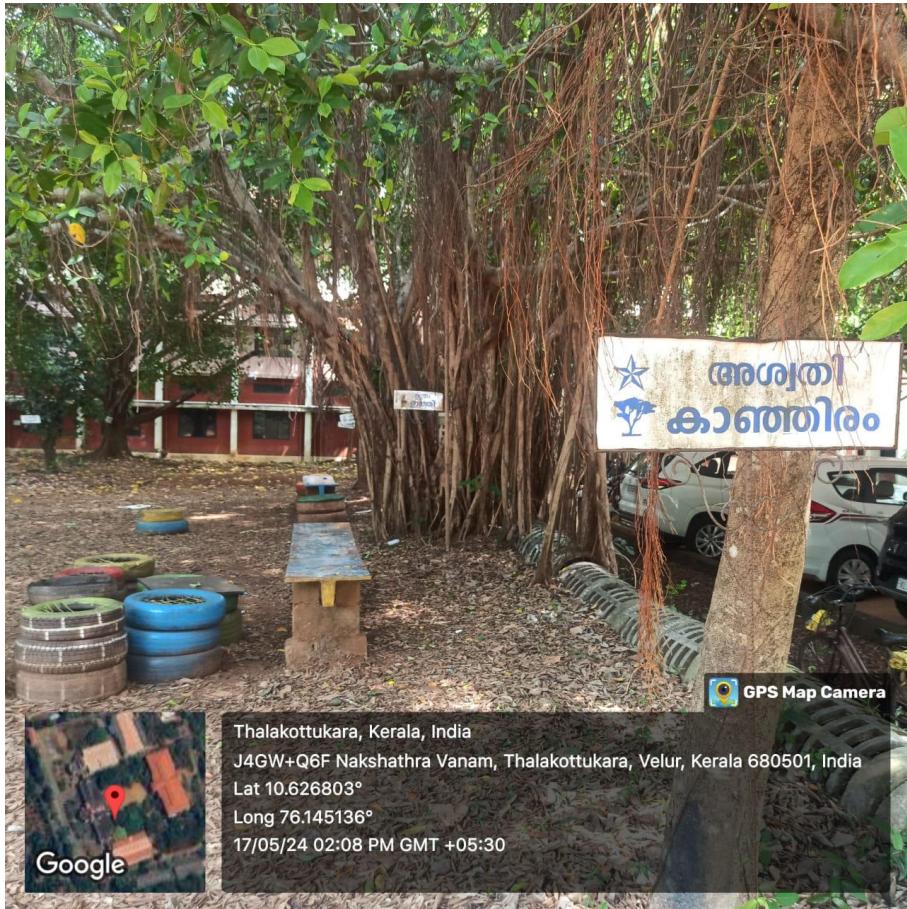
Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

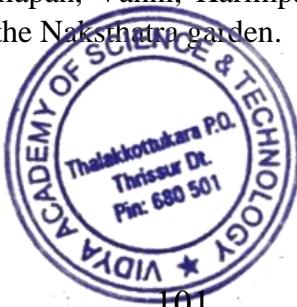
Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

NAKSHATHRAVANAM



There is a small example in Vidya campus that remains as a testimony for the deep commitment of Vidya towards the ideal of environment protection. A small part of the campus has been set apart for growing a variety of plants and the plants are chosen in such away that they are associated with the various stellar constellations in the path of the moon in the sky. These constellations are referred to in ancient Indian astronomy as *Nakshathras* which may be literally translated into English as “stars”. As per Indian traditions, there are as many as 27 *Nakshathras* and these are associated with certain trees in some mythical way. The trees planted in this part of the campus are precisely these trees and hence the part has been designated as *Nakshatra Vanam*. The Nakshatra garden has various rare species of trees such as Karingali, Karimaram, Naakam, Ithi, Ambazham, Koovalam, Neermaruthe, Vayyankatha, Vellapan, Vanni, Karimpana, Kadambu, Ilippa etc. Numerous people visit the campus to view the Nakshatra garden.



101


PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara P.O.
Thrissur - 680501



Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

PROJECT FROM CE DEPARTMENT

MICROBE INDUCED CALCIUM CARBONATE PRECIPITATION MEDIATED BRICK MANUFACTURING

PROJECT REPORT

submitted by

RAHNA K RAJEEV (VAS19CE069)

JOHN J EMMATTY (VAS19CE048)

HELMA MARIYA DAVIS (VAS19CE044)

to

the Abdul Kalam Technological University

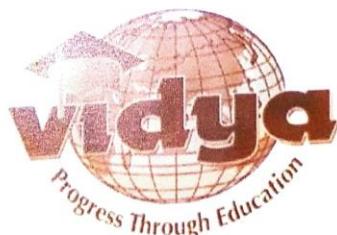
in partial fulfillment of the requirements for the award of the Degree

of

Bachelor of Technology

In

Civil Engineering



DEPARTMENT OF CIVIL ENGINEERING
VIDYA ACADEMY OF SCIENCE AND TECHNOLOGY
THALAKKOTTUKARA, THRISSUR - 680501

Asst. Prof.

PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara, P.O.
Thrissur - 680501

102
MAY 2023



Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

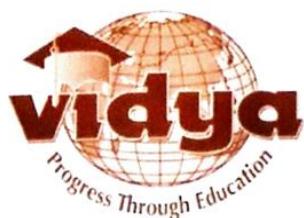
Phone: +91-4885-287751, 287752, Fax: 288366

PROJECT FROM CE DEPARTMENT

DEPARTMENT OF CIVIL ENGINEERING

VIDYA ACADEMY OF SCIENCE AND TECHNOLOGY

THALAKKOTTUKKARA, THRISSUR, KERALA



CERTIFICATE

This is to certify that the report 'MICROBE INDUCED CALCIUM CARBONATE PRECIPITATION MEDIATED BRICK MANUFACTURING' submitted by RAHNA K RAJEEV (VAS19CE069), JOHN J EMMATTY (VAS19CE048) and HELMA MARIYA DAVIS (VAS19CE044) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of Bachelor of Technology in Civil Engineering is a bonafide record of the project work carried out by us under our guidance and supervision. This report in any form has not submitted to any other University or Institute for any purpose.

Internal Supervisor:

Dr. Anjali P Sasidharan

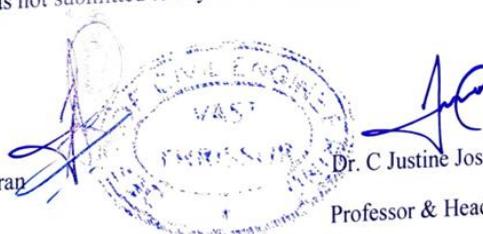
Assistant Professor

Department of Civil Engineering

Dr. C Justine Jose

Professor & Head

Department of Civil Engineering



PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara, P.O.

Thrissur - 680501



Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

PROJECT FROM EEE DEPARTMENT

EEE students develop solar powered system to destroy farm pests - Ne... <https://news.vidyaacademy.ac.in/2021/06/24/eee-students-develop-sola...>

EEE students develop solar powered system to destroy farm pests



A group of EEE students of Vidya, as part of their final year main project, developed a solar powered system that would destroy crop pests and would convert the dead pests to organic manure. The fully solar powered machine can function during day time as well as night time. The machine uses hormones in day time to attract insects to the machine. It also uses ultrasonic technology and yellow and blue light at night to attract insects. Pests are destroyed using high voltage electric energy. A layman can use it easily because of the low current flow. The machine also has the facility to combine these dying pests with organic matter and compost it into organic manure. It helps to keep away other animals which enter the farm to eat the pests. The machine is also equipped with a safety feature to protect it from rain. The team have set up compartments for storing the belongings of those working in the fields and a mobile phone charge point in the system.

The team

The team consisted of Ushas Andrews from Kanjani, Kevin George from Palazhi, Manalur, Swathi K Sunil from Kandassamkadavu and Jincy Jose from Anthikad. Mr Vishnu Rach, Mr Sankaran Namboothiri and Mr Ashwin T Surendran, AP's in the EEE Dept, coordinated the project led by Dr Mary Varghese (Head of EEE Dept). The project was selected as the best project in a competition conducted by the IEDC Club of the college. The students are now working with the Department of Agriculture to bring the machine to market.

News in TV channels

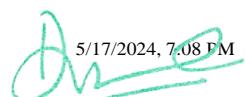
THE TIMES OF INDIA
Shared from the 6/22/2021 The Times Of India - Kochi eEdition

A device to turn pests into manure

TIMES NEWS NETWORK

1 of 2



 5/17/2024, 7:08 PM

PRINCIPAL

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara, P.O.

Thrissur - 680501



Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366

Thrissur: A

group of engineering students have developed a solar farming support machine that completely destroys crop pests and converts them into organic manure. The fully solar-powered machine will function during day and night too. At night, it is powered by the battery solar-charged during the day.



The machine has been developed by the students of the electrical and electronics engineering branch at Vidya Engineering College, Kechery, in the district. The project was part of their efforts to address the widespread pest attack in the farm area in Manalur constituency, where their college is located. The constituency is one of the major farming areas of the district.

Dim light is used at night so that it uses less power. Hormones are used to attract insects to the machine, according to a release received from the college. The machine uses ultrasonic technology and yellow and blue lights to attract the insects at night. Pests are destroyed using high voltage. The machine can be used by even those who are not tech-savvy because of the low current flow.

The release said the machine also has the facility to combine these dying pests with organic matter and compost it into organic manure. It helps to prevent other animals which enter the farm to eat the pests. In addition, the machine is equipped with a safety feature during rainy seasons. The students have set up compartments for storing the belongings of those working in the fields and a mobile phone charge point in the machine, the release said.



PRINCIPAL
VIDYA ACADEMY OF SCIENCE & TECHNOLOGY
Thalakkottukara, P.O.
Thrissur - 680501