



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai)

Accredited by NAAC

ANGUCHETTPALAYAM, PANRUTI – 607 106.

7.1.9 b- Sensitization of students and employees of the institution to the constitutional obligations: values, rights, duties and responsibilities of citizens

INDEX

SL.NO	DESCRIPTION
1	Courses Offered


Dr. R. AROKIASAMY, M.E., Ph.D.,
Principal,
St. Anne's College of Engineering & Technology,
ANGUCHETTPALAYAM,
Sivuvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 110.



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY
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GE8076

PROFESSIONAL ETHICS IN ENGINEERING

LTPC
3003

OBJECTIVES:

- To enable the students to create an awareness on Engineering Ethics and Human Values.
- To instill Moral and Social Values and Loyalty.
- To appreciate the rights of others.

UNIT I HUMAN VALUES

10

Morals, values and Ethics - Integrity - Work ethic - Service learning - Civic virtue - Respect for others - Living peacefully - Caring - Sharing - Honesty - Courage - Valuing time - Cooperation - Commitment - Empathy - Self-confidence - Character - Spirituality - Introduction to Yoga and meditation for professional excellence and stress management.

UNIT II ENGINEERING ETHICS

9

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

UNIT III ENGINEERING AS SOCIAL EXPERIMENTATION

9

Engineering as Experimentation - Engineers as responsible Experimenters - Codes of Ethics - A Balanced Outlook on Law.

UNIT IV SAFETY, RESPONSIBILITIES AND RIGHTS

9

Safety and Risk - Assessment of Safety and Risk - Risk Benefit Analysis and Reducing Risk - Respect for Authority - Collective Bargaining - Confidentiality - Conflicts of Interest - Occupational Crime - Professional Rights - Employee Rights - Intellectual Property Rights (IPR) - Discrimination.

UNIT V GLOBAL ISSUES

8

Multinational Corporations - Environmental Ethics - Computer Ethics - Weapons Development - Engineers as Managers - Consulting Engineers - Engineers as Expert Witnesses and Advisors - Moral Leadership - Code of Conduct - Corporate Social Responsibility.

TOTAL: 45 PERIODS

TEXT BOOKS:

- Mike W. Martin and Roland Schinzinger, "Ethics in Engineering", Tata McGraw Hill, New Delhi, 2003.
- Govindarajan M, Natarajan S, Senthil Kumar V. S, "Engineering Ethics", Prentice Hall of India, New Delhi, 2004.

Name of the Staff : B. Anon Kumar

Department of the Staff : ECE

Department of the Student : ECE

Semester : 08

Subject Code & Name : GE 8076 & Professional Ethics in Engineering

Period From : February 2024 to May 2024

To be Signed at the end of the each Assessment

Assessment Report	CIA-I	CIA-II	CIA-III
Assessment Date	11.03.2024	04.04.2024	29.04.2024
Report Due on	13.03.2024	04.04.2024	30.04.2024
Signature - HoD of Students with Date	<u>[Signature]</u> 13/3	<u>[Signature]</u> 3/4	<u>[Signature]</u> 29/4/24

To be Signed at the end of the Semester

Staff in - charge	HoD of Staff	HOD of Students	Principal
<u>[Signature]</u> 31/5/24	<u>[Signature]</u> 3/5	<u>[Signature]</u> 3/5	<u>[Signature]</u> 31/5/24

Time Table

PERIOD DAY	1	2	3	4	5	6	7	8
Monday		PEE						
Tuesday	PEE				PBE			
Wednesday		PEE						
Thursday								
Friday								

Unit Completion Details

Unit No.	Unit Description	Start Date	Finish Date	No. of Hours
1	Human values	01.02.24	19.2.24	9
2	Senses of Engineering Ethics	18.1.24	31.1.24	9
3	Engg as social responsibility	24.2.24	26.3.24	9
4	Safety, Responsibility, Rights	26.3.24	8.4.24	9
5	Global issues	10.4.24	17.4.24	9

B. Anand
Subject In-Charge

Stef
HoD of Students

3/5
Principal



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Course Outcome:

CO No	Course Outcome	Knowledge Level
CO 1	As a student they must know the concept and importance of engineering ethics.	K2
CO 2	Aware about the overall ethical aspects of engineering.	K2
CO 3	Able to apply the ethics in engineering.	K3
CO 4	Insight the responsibilities in the society.	K3
CO 5	Realize the engineering ethical issues at global level.	K4

CO - PO Mapping

Program Outcome	Course Outcome				
	CO 1	CO 2	CO 3	CO 4	CO 5
PO 1	-	-	-	-	-
PO 2	-	-	-	-	-
PO 3	-	-	-	-	-
PO 4	-	-	-	-	-
PO 5	-	-	-	-	-
PO 6	3	3	3	3	3
PO 7	2	3	3	3	3
PO 8	3	3	3	3	3
PO 9	1	3	2	3	2
PO 10	2	1	1	1	1
PO 11	-	-	-	-	-
PO 12	3	3	2	3	2

Regulation 2017: 1 - Reasonable, 2 - Significant, 3 - Strong
Regulation 2021: 1 - low, 2 - medium, 3 - high, '-' - no correlation

Teaching Aids (Should be written in Log Book)

BB- Black Board	OHP- Over Head Projector	PPT - Power Point	L1 - Lecture 1
T1 - Tutorial 1	A1- Assignment 1	Tx1 - Text Book 1	Rx1 - Reference Book 1
M - Model and Demo	V- Video Lecture	A- Animation	



GE3451 ENVIRONMENTAL SCIENCES AND SUSTAINABILITY L T P C
2 0 0 2

OBJECTIVES

- To introduce the basic concepts of environment, ecosystems and biodiversity and emphasize on the biodiversity of India and its conservation.
- To impart knowledge on the causes, effects and control or prevention measures of environmental pollution and natural disasters.
- To facilitate the understanding of global and Indian scenario of renewable and nonrenewable resources, causes of their degradation and measures to preserve them.
- To familiarize the concept of sustainable development goals and appreciate the interdependence of economic and social aspects of sustainability, recognize and analyze climate changes, concept of carbon credit and the challenges of environmental management.
- To inculcate and embrace sustainability practices and develop a broader understanding on green materials, energy cycles and analyze the role of sustainable urbanization.

UNIT I ENVIRONMENT AND BIODIVERSITY 6

Definition, scope and importance of environment - need for public awareness. Eco-system and Energy flow-ecological succession. Types of biodiversity: genetic, species and ecosystem diversity- values of biodiversity, India as a mega-diversity nation - hot-spots of biodiversity - threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts - endangered and endemic species of India - conservation of biodiversity: In-situ and ex-situ.

UNIT II ENVIRONMENTAL POLLUTION 6

Causes, Effects and Preventive measures of Water, Soil, Air and Noise Pollutions Solid, Hazardous and E-Waste management. Case studies on Occupational Health and Safety Management system (OHSMS). Environmental protection, Environmental protection acts.

UNIT III RENEWABLE SOURCES OF ENERGY 6

Energy management and conservation, New Energy Sources: Need of new sources. Different types new energy sources. Applications of: Hydrogen energy, Ocean energy resources, Tidal energy conversion. Concept, origin and power plants of geothermal energy.

UNIT IV SUSTAINABILITY AND MANAGEMENT 6

Development, GDP, Sustainability- concept, needs and challenges-economic, social and aspects of sustainability-from unsustainability to sustainability-millennium development goals, and protocols- Sustainable Development Goals-targets, indicators and intervention areas Climate change- Global, Regional and local environmental issues and possible solutions-case studies. Concept of Carbon Credit, Carbon Footprint. Environmental management in industry-A case study.

UNIT V SUSTAINABILITY PRACTICES 6

Zero waste and R concept, Circular economy, ISO 14000 Series, Material Life cycle assessment, Environmental Impact Assessment Sustainable habitat: Green buildings, Green materials, Energy efficiency, Sustainable transports. Sustainable energy: Non-conventional Sources, Energy Cycles- carbon cycle, emission and sequestration, Green Engineering: Sustainable urbanization- Socio- economical and technological change

TOTAL : 30 PERIODS

TEXT BOOKS:

1. Anubha Kaushik and C. P. Kaushik's "Perspectives in Environmental Studies", 6th Edition, New Age International Publishers ,2018.
2. Benny Joseph, 'Environmental Science and Engineering', Tata McGraw-Hill, New Delhi,
3. Gilbert M.Masters, 'Introduction to Environmental Engineering and Science', 2nd edition, Pearson Education, 2004.
4. Allen, D. T. and Shonnard, D. R., Sustainability Engineering: Concepts, Design and Case Studies, Prentice Hall.
5. Bradley, A.S; Adebayo, A.O., Maria, P. Engineering applications in sustainable design and development, Cengage learning.
6. Environment Impact Assessment Guidelines, Notification of Government of India, 2006.
7. Mackenthun, K.M., Basic Concepts in Environmental Management, Lewis Publication, London, 1998.

REFERENCES :

1. R.K. Trivedi, 'Handbook of Environmental Laws, Rules, Guidelines, Compliances and Standards', Vol. I and II, Enviro Media. 38. Edition 2010.
2. Cunningham, W.P. Cooper, T.H. Gorthani, 'Environmental Encyclopedia', Jaico Publ., House, Mumbai, 2001.
3. Dharmendra S. Sengar, 'Environmental law', Prentice hall of India PVT. LTD, New Delhi, 2007.
4. Rajagopalan, R, 'Environmental Studies-From Crisis to Cure', Oxford University Press, Third Edition, 2015.
5. Erach Dharucha "Textbook of Environmental Studies for Undergraduate Courses" Orient Blackswan Pvt. Ltd. 2013

Name of the Staff : S. RAMYA ASP/CHG

Department of the Staff : SCIENCE AND HUMANITIES

Department of the Student : M.ECH

Semester : IV

Subject Code & Name : GE3451 / Environmental Science and Sustainability

Period From : FEB to JUNE - 2024

To be Signed at the end of the each Assessment

Assessment Report	CIA-I	CIA-II	
Assessment Date	27/4/24	5/6/24	
Report Due on	28/4/24	6/6/24	
Signature - HoD of Students with Date	<i>[Signature]</i> 27/4/24	<i>[Signature]</i> 5/6/24	

To be Signed at the end of the Semester

Staff in - charge	HoD of Staff	HOD of Students	Principal
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i> 1.7.24

Time Table

PERIOD DAY	1	2	3	4	5	6	7	8
Monday				ESS				
Tuesday			ESS					
Wednesday								
Thursday								
Friday								

Unit Completion Details

Unit No.	Unit Description	Start Date	Finish Date	No. of Hours
1	UNIT - I	18/3/24	1/4/24	6
2	UNIT - II	8/4/24	25/4/24	6
3	UNIT - III	29/4/24	26/5/24	6
4	UNIT - IV	2/5/24	5/6/24	6
5	UNIT - V	5/6/24	6/8/24	6

Sdp
Subject In-Charge

[Signature]
HoD of Students

[Signature]
Principal 1.7.24

Course Outcome:

CO No.	COURSE OUTCOME	Knowledge Level
CO 1	To recognize and understand the functions of environment, ecosystems and biodiversity and their conservation.	K4
CO 2	To identify the causes, effects of environmental pollution and natural disasters and contribute to the preventive measures in the society.	K4
CO 3	To identify and apply the understanding of renewable and non-renewable resources and contribute to the sustainable measures to preserve them for future generations.	K4
CO 4	To recognize the different goals of sustainable development and apply them for suitable technological advancement and societal development.	K4
CO 5	To demonstrate the knowledge of sustainability practices and identify green materials, energy cycles and the role of sustainable urbanization.	K4

CO -PO Mapping

Program Outcome	COURSE OUTCOME				
	CO 1	CO 2	CO 3	CO 4	CO 5
PO 1	2	3	3	3	3
PO 2	1	2	-	2	2
PO 3	-	-	1	1	1
PO 4	-	-	-	1	-
PO 5	-	-	-	-	-
PO 6	2	3	2	2	2
PO 7	3	3	2	2	2
PO 8	-	-	-	-	-
PO 9	-	-	-	-	-
PO 10	-	-	-	-	-
PO 11	-	-	-	-	-
PO 12	2	2	2	2	1
PSO 1	-	-	-	-	-
PSO 2	-	-	-	-	-
PSO 3	-	-	-	-	-

Regulation 2021: 1 - Reasonable, 2 - Significant, 3 - Strong

Teaching Aids:

T1 - Text book, R1 - Reference book, BB - black board, PPT - power point, OHP - overhead projector, A - animations, M - models and demo, V - video lecture, L - lecture, T - tutorial, A1 - assignment





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MX308 WELL-BEING WITH TRADITIONAL PRACTICES-YOGA, AYURVEDA AND SIDDHA

LTP C
 3000

COURSE OBJECTIVES:

- To enjoy life happily with fun filled new style activities that help to maintain health also
- To adapt a few lifestyle changes that will prevent many health disorders
- To be cool and handle every emotion very smoothly in every walk of life
- To learn to eat cost effective but healthy foods that are rich in essential nutrients
- To develop immunity naturally that will improve resistance against many health disorders

UNIT I HEALTH AND ITS IMPORTANCE

2+4

Health: Definition - Importance of maintaining health - More importance on prevention than treatment
 Types of health: Physical health - Mental health - Social health - Financial health - Emotional health - Spiritual health - Intellectual health - Relationship health - Environmental health - Occupational/Professional health. Present health status - The life expectancy - present status - mortality rate - dreadful diseases - Non-communicable diseases (NCDs) the leading cause of death - 60% - heart disease - cancer - diabetes - chronic pulmonary diseases - risk factors - tobacco - alcohol - unhealthy diet - lack of physical activities Types of diseases and disorders - Lifestyle disorders - Obesity - Diabetes - Cardiovascular diseases - Cancer - Strokes - COPD - Arthritis - Mental health issue
 Causes of the above diseases/ disorders - Importance of prevention of illness - Takes care of health - Improves quality of life - Reduces absenteeism - Increase satisfaction - Saves time Simple lifestyle modifications to maintain health - Healthy Eating habits (Balanced diet according to age) Physical Activities (Stretching exercise, aerobics, resistive exercise) - Maintaining BMI - Importance and actions to be taken

UNIT II DIET

4+6

Role of diet in maintaining health - energy one needs to keep active throughout the day - nutrients one needs for growth and repair - help one to stay strong and healthy - help to prevent diet-related illness, such as some cancers - keeps active and - help one to maintain a healthy weight - help to reduce risk of developing lifestyle disorders like diabetes - arthritis - hypertension - PCOD - infertility - ADHD - sleeplessness - help to reduce the risk of heart diseases - keeps the teeth and bones strong.
Balanced Diet and its 7 Components - Carbohydrates - Proteins - Fats - Vitamins - Minerals - Fibre and Water.

Food additives and their merits & demerits - Effects of food additives - Types of food additives - Food additives and processed foods - Food additives and their reactions

Definition of BMI and maintaining it with diet

Importance - Consequences of not maintaining BMI - different steps to maintain optimal BM

Common cooking mistakes

Different cooking methods, merits and demerits of each method

Name of the Staff

T. GAYATHRI

Department of the Staff

CSE

Department of the Student

CSE

Semester

VI

Subject Code & Name

MX3085 Well-Being with Traditional Practices
 YOGA, AYURVEDA AND SIDDHA

Period

From Feb'24 to May 2024

To be Signed at the end of the each Assessment

Assessment Report	CIA-2		
Assessment Date	18/3/24		
Report Due on	18/3/24		
Signature - HoD of Students with Date	R. G. S.		

To be Signed at the end of the Semester

Staff in - charge	HoD of Staff	HOD of Students	Principal



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MX3088 STATE, NATION BUILDING AND POLITICS IN INDIA L T P C 3 0 0 0

COURSE OBJECTIVES

The objective of the course is to provide an understanding of the state, how it works through its mainorgans, primacy of politics and political process, the concept of sovereignty and its changing contours in a globalized world. In the light of this, an attempt will be made to acquaint the students with the main development and legacies of national movement and constitutional development in India, reasons for adopting a Parliamentary-federal system, the broad philosophy of the Constitution of India and the changing nature of Indian Political System. Challenges/ problems and issues concerning national integration and nation-building will also be discussed in the contemporary context with the aim of developing a future vision for a better India.

TOPICS

Understanding the need and role of State and politics.
 Development of Nation-State, sovereignty, sovereignty in a globalized world.

1885 Indian National Congress and development of national movement – its legacies. Constitution making and the Constitution of India.

Goals, objective and philosophy.
 Why a federal system?
 National integration and nation-building.

Challenges of nation-building – State against democracy (Kothari)
 New social movements.

The changing nature of Indian Political System, the future scenario. What can we do? **TOTAL: 45 PERIODS**

SUGGESTED READING:

- i. Sunil Khilnani, The Idea of India. Penguin India Ltd., New Delhi.
- ii. Madhav Khosla, The Indian Constitution, Oxford University Press. New Delhi, 2012.
- iii. Brij Kishore Sharma, Introduction to the Indian Constitution, PHI, New Delhi, latest edition.
- iv. Sumantra Bose, Transforming India: Challenges to the World's Largest Democracy, Picador India, 2013.
- v. Atul Kohli, Democracy and Discontent: India's Growing Crisis of Governability, Cambridge University Press, Cambridge, U. K., 1991.
- vi. M. P. Singh and Rekha Saxena, Indian Politics: Contemporary Issues and Concerns, PHI, New Delhi, 2008, latest edition.
- vii. Rajni Kothari, Rethinking Democracy, Orient Longman, New Delhi, 2005.

OUTCOME OF THE COURSE:

It is expected that this course will make students aware of the theoretical aspect of the state, its organs, its operationalization aspect, the background and philosophy behind the founding of the present political system, broad streams and challenges of national integration and nation-building in India. It will equip the students with the real understanding of our political system/ process in correct perspective and make them sit up and think for devising ways for better participation in the system with a view to making the governance and delivery system better for the common man who is often left unheard and unattended in our democratic setup besides generating a lot of dissatisfaction and difficulties for the system.

Name of the Staff : K. SARAVANAN
 Department of the Staff : MECHANICAL ENGINEERING
 Department of the Student : MECHANICAL ENGINEERING
 Semester : VI SEMESTER
 Subject Code & Name : MX3088, STATE, NATION BUILDING AND POLITICS IN INDIA
 Period From : FEB' 2024 to MAY' 2024

To be Signed at the end of the each Assessment

Assessment Report	—	<u>I</u>	<u>II</u>
Assessment Date	—	<u>16.03.2024</u>	<u>23.04.2024</u>
Report Due on	—	<u>18.03.2024</u>	<u>24.04.2024</u>
Signature - HoD of Students with Date	—	<u>K. Saravanan</u> <u>15/3/24</u>	<u>K. Saravanan</u> <u>24/4/24</u>

To be Signed at the end of the Semester

Staff in - charge	HoD of Staff	HOD of Students	Principal
<u>K. Saravanan</u> <u>03/5/2024</u>	<u>K. Saravanan</u> <u>4/5/24</u>	<u>K. Saravanan</u> <u>4/5/24</u>	<u>[Signature]</u> <u>24/5/24</u>

Time Table

PERIOD DAY	1	2	3	4	5	6	7	8
Monday			SNB					
Tuesday								
Wednesday		SNB						
Thursday							SNB	
Friday								

Unit Completion Details

Unit No.	Unit Description	Start Date	Finish Date	No. of Hours
1	Understanding the need and role of state and politics	1.2.24	24.2.24	09
2	The Idea of India	28.2.24	28.3.24	09
3	Constitution making and Constitution of India	28.3.24	14.4.24	09
4	National Integration and Nation Building	14.4.24	29.4.24	09
5	The changing nature of Indian political systems	29.4.24	03.5.24	09

K. S. V
Subject In-Charge

K. S. V
HoD of Students

K. S. V
Principal



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Course Outcomes:

CO No	Course Outcome	Knowledge Level
CO1	To understand a broad and coherent body of knowledge with depth in the underlying principles and concepts.	K2
CO2	To understand Integrate knowledge of the diversity of cultures and peoples.	K2
CO3	To understand the critical thinking, independent judgment, intercultural sensitivity and regional, national and global perspectives to identify and solve problems in the discipline of the Political Science.	K2
CO4	To understand the capacity for reflection, planning, ethical decisionmaking and inter-disciplinary team work in diverse contexts of community engagement.	K2
CO5	To understand the Complete Knowledge about Indian Government and Politics.	K2

BLOOM'S TAXONOMY: K-Level [K1-Remember, K2-Understand, K3-Apply, K4- Analyze, K5-Evaluate, K6-Create]

CO - PO Mapping

Program Outcome	Course Outcomes				
	CO 1	CO 2	CO 3	CO 4	CO 5
PO 1					
PO 2					
PO 3					
PO 4					
PO 5					
PO 6	1	1	1	1	1
PO 7	2	2	2	2	2
PO 8	3	3	3	3	3
PO 9	2	2	2	2	2
PO 10					
PO 11					
PO 12					
PSO 1	2	2	2	2	2
PSO 2	2	2	2	2	2
PSO 3	2	2	2	2	2

Regulation 2021: Teaching Aids

BB- Black Board	OHP- Over Head Projector	PPT - Power Point	L1 - Lecture 1
T1 - Tutorial 1	A1- Assignment 1	Tx1 - Text Book 1	Rx1 - Reference Book 1
M - Model and Demo	V- Video Lecture	A- Animation	



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FOOD, NUTRITION AND HEALTH

LTPC3003

OBT351

COURSE OBJECTIVES:

- Build knowledge and an overview on general aspects of nutrition and health.
- Distinguish the nutritive value of various food items, BMI calculation differentiating super junk, and functional foods in the market.
- To Solve the real-world problems based on nutrition and health.

UNIT-I FOOD AND MICROBIOLOGY OF HEALTH: 9

Food resources (plant, animal, microbes): Overview of current production systems; constraints and necessity of novel strategies. Functional and "Super" Foods - role in optimal nutrition. Sugar, protein and fat substitutes. Food and behaviour- physiological disturbances in alcoholism, drug abuse and smoking. Food Related Laws: Inspection - Microbial Indicators of product quality - Indicators of food safety - 229 Microbiological safety of foods - control strategies - Hazard Analysis Critical Point System (HACCP concept)- Microbiological criteria.

UNIT-II NUTRIENTS AND FOOD ADDITIVES: 9

Macro nutrients- carbohydrates, proteins and lipids. Micronutrients-Minerals: Calcium, Magnesium, Iron, Zinc, Copper and Selenium; Vitamins. Nutritional Physiology: Digestion, absorption, and utilization of major and minor nutrients. Biotechnology of food additives- Bioflavors and colors, microbial polysaccharides, recombinant enzymes in food sector.

UNIT-III NANO FOOD TECHNOLOGY: 9

Nano materials as food components, food packaging and nano materials, policies on usage of nanomaterials in foods. Food product development: steps involved in food product development, shelf-life assessment.

UNIT-IV FOOD RELATED NUTRITIONAL DISORDERS AND ENERGY CALCULATION: 9

Type I Disorders-Causes of life style and stress related diseases. Cardio-vascular diseases, hypertension, obesity. Type-II Disorders: Cancer, diabetes, ulcers, electrolyte and water imbalance. Health indices. Preventive and remedial measures. Energy balance and methods to calculate individual nutrient and energy needs. Planning a healthy diet.

UNIT-V CONSUMERS ON GM FOODS AND CONTEMPORARY ISSUES: 9

Global perspective of consumers on GM foods; Major concerns of transgenic, foods GM ingredients in food products (labeling, bioavailability, safety aspects); regulatory agencies involved in GM foods, Case studies- GM foods

TOTAL:45 PERIODS

TEXT BOOK(S):

1. P.J. Fellows.2009. Food Processing Technology -Principles and Practice (Third Edition). A volume in Woodhead Publishing Series in Food Science, Technology and Nutrition.
2. Kalidas Shetty, Gopinadhan Paliyath, Anthony Pometto, Robert E. Levin. 2015. Food Biotechnology. CRC Press. Second edition.

REFERENCE BOOKS:

1. Understanding Nutrition. 2010. Ellie Whitney, Sharon Rady Rolfes, 11e. Thompson Wadsworth. 2.
2. Nutritional Sciences- From Fundamentals to Food.2013. Michelle McGuire, Kathy A. Beerman, 2 nd e. Thompson Wadsworth

Name of the Staff : V.VENKATESAN

Department of the Staff : ECE

Department of the Student : ECE

Semester : VI

Subject Code & Name : OBT351 - FOOD, NUTRITION AND HEALTH

Period From : JAN 2024 to MAY 2024

To be Signed at the end of the each Assessment

Assessment Report	CIA-1	CIA-II	
Assessment Date	11.03.2024	25.4.2024	
Report Due on	13.03.2024	26.4.2024	
Signature - HoD of Students with Date	<i>[Signature]</i>	<i>[Signature]</i>	

To be Signed at the end of the Semester

Staff in - charge	HoD of Staff	HOD of Students	Principal
V.Venkatesan	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

Time Table

PERIOD DAY	1	2	3	4	5	6	7	8
Monday								
Tuesday								
Wednesday								
Thursday								
Friday								

Unit Completion Details

Unit No.	Unit Description	Start Date	Finish Date	No. of Hours
1	FOOD AND MICRO BIOLOGY OF HEALTH	1-2-2024	14-2-2024	9
2	NUTRITION AND FOOD ADDITIVES	20-2-2024	5-3-2024	9
3	NANO FOOD TECHNOLOGY	7-3-2024	27-3-2024	9
4	FOOD RELATED NUTRITIONAL DISORDERS	2-4-2024	13-4-2024	9
5	CONSUMES OF GM FOODS & CONTEMPORARY ISSUES	16-4-2024	28-4-24	9

V. V. Venkatesan
Subject In-Charge

[Signature]
HoD of Students

[Signature]
Principal



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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Course Outcome:

CO No	Course Outcome	Knowledge Level
CO1	To be able to understand the nutritional values of the various types of foods	K3
CO2	To be able to Analyze the role of food in the metabolic activity of the healthy diet	K4
CO3	To be able to Infer the BMI calculation and stress related diseases	K4
CO4	To be able to Elaborate the independent decision on the choice of food to prevent life style disorders and diseases	K3
CO5	To be able to Assess about the food laws governance	K2
CO6	To be able to Compare junk, modified and super foods	K2

CO - PO Mapping

Program Outcome	Course Outcome					
	CO 1	CO 2	CO 3	CO 4	CO 5	CO 6
PO 1	3	3	3	3	3	3
PO 2	3	2	3	3	2	2
PO 3	3	2	3	2	3	2
PO 4	3	3	2	3	2	1
PO 5	2	2	1	2	2	1
PO 6	3	3	3	3	1	1
PO 7	-	-	-	-	-	-
PO 8	-	-	-	-	-	-
PO 9	-	-	-	-	-	-
PO 10	-	-	-	-	-	-
PO 11	-	-	-	-	-	-
PO 12	1	1	1	1	1	1
PSO 1	3	3	3	3	3	3
PSO 2	3	3	3	3	3	3
PSO 3	3	3	3	3	3	3

Regulation 2021: 1 - low, 2 - medium, 3 - high, '-' - no correlation

Teaching Aids (Should be written in Log Book)

BB- Black Board	OHP- Over Head Projector	PPT - Power Point	L1 - Lecture 1
T1 - Tutorial 1	A1- Assignment 1	Tx1 - Text Book 1	Rx1 - Reference Book 1
M - Model and Demo	V- Video Lecture	A- Animation	