



Circular







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8-11-21

According to the Department of Physics resolved to start a Certificate Course on "Cross-Cutting issues in Nuclear energy" from 15-12-21 for 45 hr during working days in physics lab. All final year students are requested to enroll your names to in charge of physics as or before 10-11-21.

1.  PRINCIPAL
GOVT DEGREE COLLEGE
PALAKONDA
Parvathipuram Manyam Dist.

1. 
2. 

1. III mpc
2. II mpc 
3. I mpc 
4. III CBZ
5. II CBZ 
6. I CBZ 
7. III Bcom
8. II Bcom 
9. I Bcom 
10. III BA
11. II BA
12. I BA

SECTION - I

Note: Answer any five of the following

5x5=25marks

1. Define the term "cross-cutting issues" in the context of nuclear energy and provide examples.
2. Explain how an interdisciplinary approach can enhance the understanding and management of cross-cutting issues in the nuclear energy sector.
3. Discuss the key regulatory frameworks governing nuclear energy. How do these frameworks address cross-cutting issues such as safety and environmental concerns?
4. Describe the importance of international collaboration in addressing cross-cutting issues in nuclear energy. Provide examples of successful collaborative initiatives.
5. How do technological advancements impact cross-cutting issues in nuclear energy? Provide specific examples and discuss their implications.
6. Identify and discuss ethical considerations related to nuclear energy, specifically in the context of cross-cutting issues. How can ethical practices be integrated into decision-making?
7. Outline the safety measures that should be implemented to address cross-cutting issues in nuclear energy. Provide examples and discuss their significance.
8. Analyze the environmental impact of nuclear energy, considering cross-cutting issues. How can the industry mitigate negative effects and promote sustainability?
9. Explain the importance of stakeholder engagement in managing cross-cutting issues in nuclear energy. Provide strategies for effective communication with various stakeholders.
10. Identify and discuss two current challenges in the nuclear energy sector that involve cross-cutting issues. How can these challenges be addressed from a theoretical standpoint?

SECTION - II

Answer all the five questions.

5x10=50 marks

11.
 - a. Discuss the importance of adopting an interdisciplinary approach in understanding and addressing cross-cutting issues in the field of nuclear energy. Provide examples to illustrate your points.
(Or)
 - b. Explore the ethical dilemmas associated with cross-cutting issues in nuclear energy. Discuss the principles and frameworks that can guide ethical decision-making in the industry.

- a) Analyze the role of international collaboration in managing cross-cutting issues in the nuclear energy sector. Discuss challenges and opportunities for global cooperation. (Or)
- b) Examine the regulatory frameworks that govern nuclear energy. How do these regulations address cross-cutting issues, and what improvements could be made to enhance safety and sustainability?

13.

a) Explore the impact of technological advancements on cross-cutting issues in nuclear energy. Discuss specific innovations and their potential implications for the industry.

(Or)

b) Assess the environmental impact of nuclear energy and discuss strategies for achieving sustainability. How can the industry balance energy production with environmental conservation?

14.

a) Discuss the principles of risk management in the context of cross-cutting issues in nuclear energy. Provide examples and evaluate the effectiveness of current risk mitigation strategies. (Or)

b) Analyze the role of effective communication in managing public perception of nuclear energy. How can the industry address concerns and build public trust regarding cross-cutting issues?

15.

a) Explore the social and cultural factors that influence the management of cross-cutting issues in nuclear energy. How can these factors be taken into account in decision-making processes? (Or)

b) Identify and discuss two significant challenges and opportunities that the nuclear energy sector may face in the future regarding cross-cutting issues. Propose strategies for navigating these challenges and leveraging opportunities.

Marks and Issue of Certificate

Sl No	Name of the Student	Marks obtained	Group	Certificate Received Sign
1.	Kodiboina Durgalak	21	III mpc	K. Durga Rao
2.	vempatapu Eswararao	20	III mpc	V. Eswararao
3.	Utlapu Rajeswari	23	III mpc	U. Rajeswari
4.	Chirtada Hemalatha	24	III mpc	CH. Hemalatha
5.	Tamarapu Subapundarik	22	III mpc	T. Subapundarik
6.	N. Sai Sankarasa	23	III mpc	N. sankarasa
7.	K. Suneel Kumar	24	III mpc	K. suneel kumar
8.	N. Sandhya Rani	23	III mpc	N. Sandhya Rani
9.	M. Anjali	22	III mpc	M. Anjali
10.	V. pradheep	23	III mpc	v. pradheep
11.	A. Sumanth	20	III mpc	A. Sumanth
12.	G. Mahesh	21	III mpc	G. Mahesh
13.	p. Siva Ganesh	20	III mpc	p. siva Ganesh.
14.	K. durgarao	20	III mpc	K. durgarao
15.	A. Ramya	23	III mpc	A. Ramya
16.	V. triveeni	25	III mpc	V. Triveeni
17.	S. Tejaswara Rao	23	III mpc	S. Tejaswara Rao
18.	B. Raj Kumar	23	III mpc	B. Raj Kumar
19.	S. Neelima	25	III mpc	S. Neelima
20.	V. Sai Krishna	23	III mpc	V. Sai Krishna
21.	M. Anjali	22	III mpc	m. Anjali
22.	M. Pervathi	21	III mpc	M. Pervathi
23.	CH. Damayanthi	22	III mpc	CH. Damayanthi
24.	S. Sandhya Rani	23	III mpc	S. Sandhya Rani
25.	K. Lavanya	21	III mpc	K. Lavanya
26.	K. Mohan	22	III mpc	K. Mohan
28.	P. Jagadeesh	23	III mpc	P. Jagadeesh
28.	S. Kulasekar	20	III mpc	S. Kulasekar
29.	N. Simhachalam	20	III mpc	N. Simhachalam
30.	R. Ganesh	21	III mpc	R. Ganesh
31.	S. Kasthika	22	III mpc	S. Kasthika



Government Degree College Palakonda.

Department of Physics Certificate

This is to certify that Mr/ Ms S. NEELIMA Student of
Year Regd ID has under gone Four Weeks training on Cross cutting Issues in Nuclear

Energy from 15-11-2021 to 31-12-2021 during the academic year 2021-2022.

In Charge of the Dept

IQAC COORDINATOR

GDC PALAKONDA
Parvathipurathu Manayam Dist.

Principal

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