



VIVEK P.G. COLLEGE
KALWAR, JAIPUR

(Affiliated to University of Rajasthan & Govt. of Rajasthan)

F4(179/60)AAKASHI/ANU/2003/89

Tel: 0141-2589596, 2589665

Mob.: +91-9928144609

E-mail: info@vivekpgcollege.com

Institutional programme
brochure/notice for Certificate/Value
added programs with course modules
and outcomes for Academic Session
2023-24



VIVEK P.G. COLLEGE KALWAR, JAIPUR

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F4(179/60)AAKASHI/ANU/2003/89

Tel: 0141-2589596, 2589665

Mob.: +91-9928144609

E-mail: info@vivekpgcollege.com

Date: 16.08.2023

NOTICE

Subject: Announcement of Add- On Certificate Course on Relation & Function.

Dear Students, We are pleased to inform you that college is offering a Value-Added certificate Course on **Relation & Function** designed to enhance your educational journey and future career prospects for all UG and PG students.

Principal

Coordinator Name

PRINCIPAL
VIVEK PG COLLEGE
KALWAR, JAIPUR-303706

- Copy to -
1. Chairman Sir
 2. IQAC
 3. Notice Board
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VIVEK P.G. COLLEGE KALWAR JAIPUR

(APPROVED WITH GOVT OF RAJASTHAN AND
AFFILIATED TO THE UNIVERSITY OF RAJASTHAN)



ADD - ON CERTIFICATE COURSE

ACADEMIC YEAR 2023-24

DEPT. OF MATH

DURATION : 35 HOURS

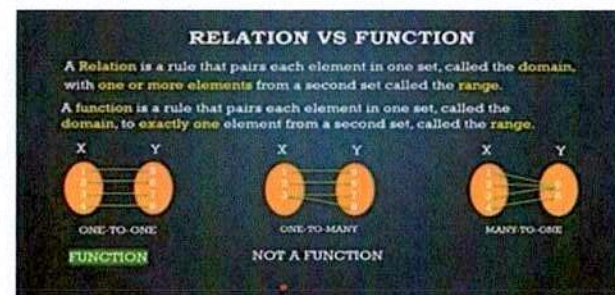
DATE: 17 AUGUST.2023

VENUE - ROOM NO. 36

Relation and Function

COURSE OUTCOMES:

- Analyze the difference between relation and function.
- Determine the types of the function and relation.
- Determine the algebraic properties between two function and relation.
- Determine the range and domain of the function and relation.
- Learn how a function and relation working in our daily life by correlating between two objects.



Coordinator Name - Mr. Sandeep Kumar

Note- 75% Attendance Required

Vivek PG College, Kalwar Jaipur, 303706
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Add- On Certificate course

Course - Relation and Function

1.	Course Name	Relation and Function
2.	Coordinator Name	Mr. Sandeep Kumar
3.	Number of Students	173
4.	Duration	35 Hours

About Course: Definition of relation and function, types of relation and function, domain, range co-domain, of the function and relation. One-one, onto, one—one and onto function, Invertible function algebraic operation between two relation and function .These function are widely use in various branch of the mathematics, physics, commerce and in the scientific field.

		Topics	Hours
Module	I	Definition of relation, types of relation, range and domain of the relation	8
Module	II	D.F of the function, types of the function, one-one function, onto function	7
Module	III	Algebraic operation on the function and relation, difference between relation and function	8
Module	IV	Composition of two function and relation	6
Module	V	Application of the relation and function in many field in our life	6

Course Outcome:

- Analyze the difference between relation and function.
- Determine the types of the function and relation.
- Determine the algebraic properties between two function and relation.
- Determine the range and domain of the function and relation.
- Learn how a function and relation working in our daily life by correlating between two objects.

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Date: 13.11.2023

NOTICE

Subject: Announcement of Value-Added Certificate Course on Artificial Intelligence.

Dear Students, We are pleased to inform you that college is offering a Value-Added certificate Course on **Artificial Intelligence** designed to enhance your educational journey and future career prospects for all UG and PG students.

Principal

PRINCIPAL

Vivek P.G. Mahavidhyalaya
Kalwar, Jaipur-303706

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Coordinator Name

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ACADEMIC YEAR 2023-2024

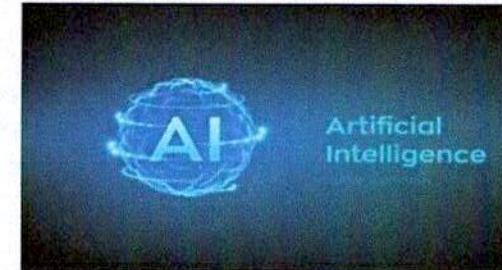
DURATION : 30 HOURS

DATE: 15 NOV. 2023

VENUE: ROOM NO. 20

VALUE ADDED CERTIFICATE COURSE

Artificial Intelligence




COURSE OUTCOMES:

- Explain the basics of AI: basic concepts, history.
- Apply appropriate machine learning and deep learning techniques to solve problems.
- Develop the basic applications which involve natural language processing.
- Understand ethical issues and address them in the light of AI.
- Demonstrate awareness of AI governance and regulations.

Coordinator Name - Mrs. Jyoti Choudhary

Note- 75% Attendance Required

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Value - Added course Course: Artificial Intelligence

1.	Course Name	Artificial Intelligence
2.	Coordinator Name	Miss Jyoti Choudhary
3.	Number of Students	251
4.	Duration	30 Hours


About the Course: This course provides a comprehensive introduction to Artificial Intelligence (AI), covering fundamental concepts, techniques, and applications. It aims to equip students with the knowledge and skills necessary to understand and develop AI solutions.

		Topics	Hours
Module	I	Introduction to AI: Definition and history of AI, Key concepts and terminology, Overview of AI applications in various industries	5
Module	II	Machine Learning: Introduction to machine learning, Supervised vs. unsupervised learning, Key algorithms and techniques	6
Module	III	Deep Learning: Introduction to neural networks, Deep learning architectures, Applications of deep learning	6
Module	IV	Natural Language Processing (NLP): Basics of NLP, Text processing and sentiment analysis	8
Module	V	AI Ethics and Governance: Ethical considerations in AI, AI governance and regulations	5

Course Outcomes:

By the end of this course, students will be able to:

- Explain the basics of AI: basic concepts, history.
- Apply appropriate machine learning and deep learning techniques to solve problems.
- Develop the basic applications which involve natural language processing.
- Understand ethical issues and address them in the light of AI.
- Demonstrate awareness of AI governance and regulations.


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Date: 09.10.2023

NOTICE

Subject: Announcement of Value-Added Certificate Course on Cyber-Security & Ethical Hacking.

Dear Students, We are pleased to inform you that college is offering a Value-Added certificate Course on **Cyber-Security & Ethical Hacking** designed to enhance your educational journey and future career prospects for all UG and PG students.

Principal

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ACADEMIC YEAR 2023-2024
DURATION : 35 HOURS
DATE: 10 OCTOBER 2023
VENUE: COMPUTER LAB

VALUE ADDED CERTIFICATE COURSE

Cyber Security and Ethical Management



COURSE OUTCOMES:

- Understand exactly what cyber security is and why digital information protection is so crucial.
- Explain the different kinds of cyber threats and the mechanisms needed to combat these.
- Apply ethical hacking techniques to find out the weaknesses and implement security on systems.
- Analyze real-life cyber security incidents and provide recommendations to prevent such cyber security breaches.
- Laying a solid foundation that will help in the development of advanced studies and professional careers in cybersecurity and ethical hacking.

Coordinator Name - Mr. Vishal Choudhary

Note- 75% Attendance Required

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Value- Added course

Course - Cyber Security and Ethical Hacking

1.	Course Name	Cyber Security and Ethical Hacking
2.	Coordinator Name	Mr. Vishal Choudhary
3.	Number of Students	260
4.	Duration	35 Hours

About the Course: Cyber security and ethical hacking have become essential skills in the modern digital landscape. With the increasing reliance on technology, there is a growing demand for professionals who can protect data and systems from cyber threats. This course provides an introduction to cyber security concepts, ethical hacking techniques, and best practices. It will enable students to understand the importance of securing digital information and equip them with basic skills to identify and mitigate cyber threats ethically.

		Topics	Hours
Module	I	Introduction to Cyber security: Overview of cyber security, Types of cyber threats (malware, phishing, ransomware, etc.), Importance of cyber security in the modern world Basics of cryptography and encryption.	7
Module	II	Cyber security Tools and Techniques: Firewalls, antivirus software, and intrusion detection systems Network security fundamentals Secure coding practices Security protocols and standards.	8
Module	III	Ethical Hacking Fundamentals: Introduction to ethical hacking and its role in cyber security, Difference between ethical hacking and malicious hacking, Legal and ethical considerations in hacking.	8
Module	IV	Ethical Hacking Techniques Reconnaissance: Information gathering and foot printing Scanning and enumeration techniques Vulnerability analysis and exploitation Post-exploitation techniques and maintaining access.	7
Module	V	Case Studies and Practical Applications Real	5


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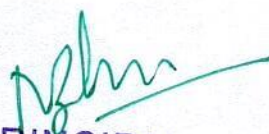
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Course Outcomes:

- Understand exactly what cyber security is and why digital information protection is so crucial.
- Explain the different kinds of cyber threats and the mechanisms needed to combat these.
- Apply ethical hacking techniques to find out the weaknesses and implement security on systems.
Analyze real-life cyber security incidents and provide recommendations to prevent such cyber security breaches.
- Laying a solid foundation that will help in the development of advanced studies and professional careers in cybersecurity and ethical hacking.


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Date: 19.01.2023

NOTICE

Subject: Announcement of Value-Added Certificate Course on GST & Taxation.

Dear Students, We are pleased to inform you that college is offering a Value-Added certificate Course on **GST & Taxation** designed to enhance your educational journey and future career prospects for all UG and PG students.


Principal


Coordinator Name

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ADD - ON CERTIFICATE COURSE

ACADEMIC YEAR 2023-24

DEPT. OF A.B.S.T.

DURATION : 35 HOURS

DATE: 20 JAN. 2023

VENUE - ROOM NO. 25

GST & Taxation



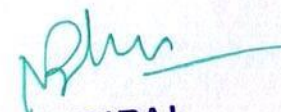
COURSE OUTCOMES:

- Understand both GST and the concept of taxation systems in India in detail.
- Be proficient in the process of registration, return filling, and compliance matters in GST.
- Obtain practical experience in issuing of GST invoice, refund matters, and tax planning.
- Understand the recent amendments and evolutionary nature of GST.
- Face the Challenge: Be able to face challenges in regard to taxation-related issues in professional and business worlds.

Coordinator Name - Mr.Imran Khan

Note- 75% Attendance Required

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Add – On Course Course - GST & Taxation

1.	Course Name	GST & Taxation
2.	Coordinator Name	Mr.Imran Khan
3.	Number of Students	84
4.	Duration	35 Hours

About the Course: This course helps students understand the role of taxes in nation-building and the evolution of GST as a reformative step in India's tax system. GST is a comprehensive, indirect tax levied on the supply of goods and services in India. Taxation, in general, is the method by which governments collect revenue from individuals and business to fund public services, infrastructure, and welfare programs.

		Topics	Hours
Module	I	Introduction to Taxation, Introduction to Goods and Services Tax (GST)	4
Module	II	GST Overview: GST Structure: Central GST (CGST), State GST (SGST), Integrated GST (IGST), GST Registration Process	6
Module	III	GST Compliance: Filing GST Returns, GST Audit Process	6
Module	IV	Practical Aspects of GST: Invoice Generation under GST, GST Payment Methods, Dealing with GST Refunds	4
Module	V	Direct and Indirect Taxation	4
Module	VI	Recent Amendments and Updates in GST Law	6
Module	VII	Case Studies and Practical Applications	5

Course Outcomes:

Upon completion of this course, participants will:

- Understand both GST and the concept of taxation systems in India in detail.


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- Be proficient in the process of registration, return filling, and compliance matters in GST.
- Obtain practical experience in issuing of GST invoice, refund matters, and tax planning.
- Understand the recent amendments and evolutionary nature of GST.
- Face the Challenge: Be able to face challenges in regard to taxation-related issues in professional and business worlds.

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Date: 17.02.2023

NOTICE

Subject: Announcement of Value-Added Certificate Course on Sustainable Business Practices.


Dear Students, We are pleased to inform you that college is offering a Value-Added certificate Course on **Sustainable Business Practices** designed to enhance your educational journey and future career prospects for all UG and PG students.


Principal


Coordinator Name

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ACADEMIC YEAR 2023-24

DURATION : 30 HOURS

DATE: 18 FEB. 2023

VENUE: ROOM NO. 20

VALUE ADDED CERTIFICATE COURSE

Sustainable Business Practices




COURSE OUTCOMES:

- Understand the key concepts of sustainability and their application to business.
- Analyze the environmental, social, and economic impacts of business activities.
- Evaluate various industries for sustainable businesses and practices.
- Develop and implement strategies in an organization with an aim to enhance sustainability.
- Apply ethical principles and good governance practices in the advancement of sustainability.
- Create a comprehensive business plan in sustainability, integrating ESG principles

Coordinator Name - Dr. Payoj Raj Singh

Note- 75% Attendance Required

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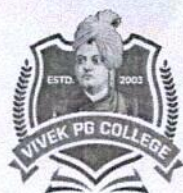
Value-Added Course Course - Sustainable Business Practices

1	Course Name	Sustainable Business Practices
2	Coordinator Name	Dr. Payoj Raj Singh
3	Classes	342
4	Duration	30 Hours

About the Course: This course will help students acquire knowledge on how business functions can be practiced sustainably. It covers how a company can integrate environmental, social, and governance issues into its strategy to heed the call for sustainable development. The course shall make a student equipped with relevant knowledge and skills to contribute towards the sustainable growth of organizations while offering solutions to key global challenges such as climate change, resource scarcity, and social inequality.

		Topics	Hours
Module	I	Introduction to Sustainability: Concept of and brief history of sustainability, Triple bottom line: Environmental, Social and Economic dimensions, Global challenges in sustainability and their impact on business, Sustainable Development Goals (SDGs) and their relevance for business	5
Module	II	Environmental Sustainability: Resource efficiency and concepts of waste management, Carbon footprint reduction strategy and renewable energy promotion, Sustainable supply chain management, Case studies on environmental sustainability in business	5
Module	III	Social Sustainability: Business' role in the solution of social problems, Corporate Social Responsibility: how to be responsible, Communication with the stakeholders and community development, Business and social sustainability	5
Module	IV	Economic Sustainability: New and more sustainable business models and circular economy, Innovation as driver of sustainability, Economic performance vs social and environmental responsibilities, Business economic sustainability	5

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Module	V	Governance and Ethics: Corporate governance, Business ethics, The role and value of transparency and accountability in sustainable business practices, Case studies in governance and business ethics	5
Module	VI	Applying it to Business: The sustainability business plan, How to implement sustainability in any given organization, Measuring and reporting the performance of sustainability	5

Course Outcomes:

- ✓ Understand the key concepts of sustainability and their application to business.
- ✓ Analyze the environmental, social, and economic impacts of business activities.
- ✓ Evaluate various industries for sustainable businesses and practices.
- ✓ Develop and implement strategies in an organization with an aim to enhance sustainability.
- ✓ Apply ethical principles and good governance practices in the advancement of sustainability.
- ✓ Create a comprehensive business plan in sustainability, integrating ESG principles.

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Date: 24.07.2023

NOTICE

Subject: Announcement of Add- On Certificate Course on Pharmaceutical Chemistry.

Dear Students, We are pleased to inform you that college is offering a Value-Added certificate Course on **Pharmaceutical Chemistry** designed to enhance your educational journey and future career prospects for all UG and PG students.

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Coordinator Name

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ADD - ON CERTIFICATE COURSE

ACADEMIC YEAR 2023-24
DEPT. OF CHEMISTRY
DURATION : 30 HOURS
DATE: 25 JULY.,2023
VENUE - ROOM NO. 35

Pharmaceutical Chemistry



COURSE OUTCOMES:

- Helps in correlating between pharmacy and chemistry.
- To understand the drug metabolic pathways.
- To know the structural activity relationship of different class of drugs.
- Focused on quality aspects of medicines

Coordinator Name - Mrs. Anita Kumawat

Note- 75% Attendance Required

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Add – On Course Course - Pharmaceutical chemistry


1.	Course Name	Pharmaceutical chemistry
2.	Coordinator Name	Mrs. Anita Kumawat
3.	Number of Students	218
4.	Duration	30 Hours

About the course: This course enables the students to embrace the knowledge about various steps involved in pharmaceutical chemistry. It covers the collection, analysis, monitoring and prevention of adverse effects in drugs and therapies. It focuses on the safety and efficacy of drugs, and touches on almost every aspect of their life cycle.

		Topics	Hours
Module	I	Identification, synthesis and development of new chemical entities that can be used for therapeutic purpose.	8
Module	II	Drug target interactions.	6
Module	III	Acid base properties, equilibrium and stereo chemistry of drugs.	8
Module	IV	Chromatographic analysis of pharmaceutical agents.	8

Course Outcomes:-

- Helps in correlating between pharmacy and chemistry.
- To understand the drug metabolic pathways.
- To know the structural activity relationship of different class of drugs.
- Focused on quality aspects of medicines.


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