Geology Department, Govt. College, Narnaul

Infrastructure Facilities

Laboratories:

Department of Geology, Govt. College, Narnaul have two (02) labs named as Microscopic Lab (Room No. 49) and Geological Museum (Room No. 50). The Microscopic Lab is equipped with various types of sophisticated microscopes like Petrological Microscopes (Appx. 15), Ore Microscopes (05), Micropaleontology Microscopes (01). The Earth material like minerals, rocks, ores and microfossils are studied under microscopes to identify & understand the earth material. We have approximately 100 thin sections of earth material with are observed under microscopes during practical classes.

In The Geological Museum, we have very good collection of hand specimens (Approx. 500) for Minerals, Rocks, Ores and Fossils. These are observed for the identification of Earth material and interpretation of various Geological Processes. Geological Models in the form of charts and clay material are also available for the demonstration.

Both Labs are equipped with Intractive Flat Pannels to demonstrate the dynamic processes through videos and power point presentations.







Geology Lab-I (Microscopy Lab, Room no. 49)



Geology Lab-II (Geological Museum, Room no. 50)

Geo Park:

An open Geopark has been established in the lawn in front of the Geology Department. A variety of earth material samples are displayed in the Geopark.

The objective of Geopark is to aware the Non-Geology students & Society about the diversity in the Earth material and Processes. The samples collected during the Geological fieldworks in the various parts of India are displayed in the Geopark. This Geopark also enhance the beauty of the campus along with knowledge enrichment.





Departmental Library:

The library of Geology department have a collection of approx. 120 books of Earthscience related to it's various domains like General Geology, Physical Geology, Geo Chemistry, Paleontology, structural Geology, Economic Geology etc. Departmental Library also has some collection of useful Geoscientific literature in the form of communications, Field Reports, Journals & Research Papers etc. The Geological literature is mostly donated by the alumni of department.

Along with this some motivational, Inspiring and biographic books are also available in the departmental library.



Smart Class Rooms:

The classrooms of Geology Department are well equipped with ICT tools like interactive flat panels, Computer, Projectors etc. All the faculty members are convenient with use of ICT tools in their teaching work. The faculty members of the department are using power point presentations, videos & animations content for the better conceptual clarity to the students in their classes.

Soil Testing Project:

The Soil Testing Project is supported by Department of Agriculture & Farmer Welfare, District-Mahendergarh. In this project soil testing kit, reagents, chemicals and soil samples are provided by Agriculture departments. Soil samples are analyzed by Students of M.Sc. Geology under the guidance of Sh. Jaipal Singh, Assistant Professor & Nodal Officer in the college for this project. Project is enhancing the practical knowledge of students and data generated will be used to generate the soil heath card for every acre of land & may be utilized for research purpose.





ICT-Facilities

EDUSAT & E-Content Development Studio (ECDS)

EDUSAT:

The Edusat facility provides the satellite based telecast of video lectures for students. At Govt. College, Narnaul, Edusat facility is functioning since 2012. It was started with display of satellite based video lectures on projector screen. Since 2020, the facility has been upgraded with interactive flat panel. The weekly schedule of lectures is shared with students in advance and they may attend the video lectures during free time or as per their interest. During COVID pandemic some lectures were live streamed on YouTube channel of the college so that students may attend online from their living places.





E-Content Development Studio & Video Conference Room:

This facility has been established in 2020, to facilitate the teachers to record their lectures for the development of online courses. The coverage of important events like Science Exhibition, Annual function of the college etc. are done to upload the videos on the YouTube channel of the college so that new students may get an idea about the upcoming events and may prepare in a better way. Through this facility, we also record the video of our interaction with the illustrious alumni of our college so that current students of the college may get guidance and inspiration by viewing these videos. Through Video conference facility, webinars may join by a group of peoples (Students/Faculty) together.







Department of Geology, Govt. College, Narnaul

Geological Field-work

Geology is the kinds of subject which can be best learn in the field where we may observe the earth material in its natural environment so 'Geological Fieldwork' is the integral part of M.Sc. Geology curriculum. As per syllabus and scheme of examination approved by BoS, the students of Geology Department carries Geological Fieldwork of about one week annually under the supervision of in-charge teachers in the area having good exposures of Geological features and earth material i.e Minerals, Rocks, Ores etc.



Department of Geology

Govt. College, Narnaul

Briefing: Students of M.Sc. Geology participated in the online Quiz and Essay writing competition by Atomic Mineral Directorate, Department of Atomic Energy, Govt. of India on the occasion of National Science Day-2023 (in Feb.) and 5 students secured top positions in Northern Region of AMD.

Supporting Documents:

- 1. Result sheet shared by AMD officials
- 2. Certificates of students

lin	and the second of		AMD, N	lorthern Region	
Helen -		CATE		(STANDARD 6 to 8)	
SI.Ne	. Name of the Student	Standard		School Name	Position
01.	Rupesh Nagar	8	C	Ramias International School, New Dethi	1
02.	Saloni Kumari	8	C	Kendriya vidyalaya .Sector 8, R.K. Puram ,New Delhi	I
03.	Mihir Man Singh	8	C	Ramjas International School. New Delhi	111
04.	Anusha Singh	8	B	Ramjas International School, New Delhi	IV
05.	Devansh Pant	7	D	Kendriya vidyalaya ,Sector 8, R.K Puram ,New Delhi	V
-	-	CATE	GORY B	(STANDARD 9 to 12)	
SLN	Name of the Student	Standard	Construction (Construction)	School Name	Position
01.	Ashok Anchara	9	A	Kendriya vidyalaya ,Sector 8, R.K Puram ,New Delhi	
02.	Sautrik Ganguly	9	B	Ramjas International School, R.K. Puram, New Delhi	
03.	Ayush Senapati	9	A	Ramjas International School, R.K. Puram, New Delhi	. 111
04.	Mehak sharma	9	A	Kendriya vidyalaya ,Sector 8, R.K Puram ,New Delhi	IV
05.	Kshitij Mathpal	9	С	Ramjas International School, R.K. Puram, New Delhi	V
01	Look Martin		GORY C	(UNDERGRADUATE) Govt PG College, Panchkula, Sector 1, New Delhi	
01.	Jyoti Malik	UG	CS	Atma Ram Sanatan Dharma College, New Delhi	1
02.	Pranav Raj		A	Atma Ram Sanatan Dharma College, New Delhi	
03.	Sagar Swarup	UG	0.2	Atma Ram Sanatan Dharma College, New Delhi	IV
04.	Jatin Kumar	UG	Physics	Atma Ram Sanatan Dharma College, New Delhi	V
05.	Vaibhav Gandhi		-	O (POSTGRADUATE)	V
SI.No.	Name of the Student	Standard		School Name	Position
01.	Sumit kumar	PG	Geology	Government College, Narnaul	
	Jatin kumar	PG	Geology	Government College, Narnaul	1
02.	11 4	PG	Geology	Government College, Namaul	III
	Haemrai		41	-	
03.	Haemraj Sonia	PG	Geology	Government College, Narnaul	N N





भारत सरकार Government of India परमाणु ऊर्जी विभाग Department of Atomic Energy परमाणु खनिज अन्वेषण एवं अनुसंधान निदेशालय Atomic Minerals Directorate for Exploration and Research राष्ट्रीय विज्ञान दिवस समारोह

राष्ट्राय विज्ञान दिवस समारोह NATIONAL SCIENCE DAY CELEBRATIONS - 2023

वैश्विक भलाई के लिए वैश्विक विज्ञान Global Science for Global Wellbeing

उत्कृष्टता प्रमाण-पत्र Certificate of Excellence

पश्नोत्तरी/ निबंध लेखन प्रतियोगिता में भाग लिया और <u>प्रथम</u> पुरस्कार प्राप्त किया। सुत्री/मास्टर सुमित कुमार ने परमाणु खनिज अन्वेषण एवं अनुसंधान निदेशालय,हैदराबाद द्वारा आयोजित "राष्ट्रीय विज्ञान दिवस समारोह - 2023" के अवसर पर

Research, Hyderabad. occasion of the "National Science Day - 2023" celebrations organised by Atomic Minerals Directorate for Exploration and Ms. / Master Sumit Kumar has participated in the Quiz / Essay Writing competition and has secured First prize on the

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डॉ. टी. एस. सुनील कुमार Dr.T.S.Sunil Kumar अपर निदेशक Additional Director (R & D)

> बी. सरवणन B. Saravanan निदेशक Director

MANAGUA





Atomic Minerals Directorate for Exploration and Research परमाणु ऊर्जा विभाग Department of Atomic Energy परमाणु खनिज अन्वेषण एव अनुसंधान निदेशालय भारत सरकार Government of India

NATIONAL SCIENCE DAY CELEBRATIONS - 2023 राष्ट्रीय विज्ञान दिवस समारोह

Global Science for Global Wellbeing वैश्विक भलाई के लिए वैश्विक विज्ञान

उत्कृष्टता प्रमाण-पत्र Certificate of Excellence

सुत्री/मास्टर हेमराज ने परमाणु खनिज अन्वेषण एवं अनुसंधान निदेशालय,हैदराबाद द्वारा आयोजित "राष्ट्रीय विज्ञान दिवस समारोह - 2023" के अवसर पर **प्रश्नोत्तरी**/ निबंध लेखन प्रतियोगिता में भाग लिया और <u>तृतीय</u> पुरस्कार प्राप्त किया।

occasion of the "National Science Day – 2023" celebrations organised by Atomic Minerals Directorate for Exploration and Ms. / Master Haemraj has participated in the Quiz / Essay Writing competition and has secured Third prize on the Research, Hyderabad

अपर निदेशक Additional Director (R & D) डॉ. टी. एस. सुनील कुमार Dr.T.S.Sunil Kumar

JURMAU

बी. सरवणन B. Saravanan

निदेशक Director

Government College, Narnaul

<u>Library</u>

Indian Knowledge System at Library of Government College Narnaul :

The Indian Knowledge System (IKS) is a rich and ancient heritage that encompasses a diverse range of disciplines, including philosophy, science, medicine, mathematics, arts, and literature. Rooted in the Vedas, Upanishads, and other ancient texts, the Indian Knowledge System places a strong emphasis on holistic learning, interconnectedness, and the pursuit of both material and spiritual well-being. It incorporates practices such as Ayurveda, Yoga, and Vastu Shastra, reflecting a comprehensive understanding of life, health, and the environment. IKS also encompasses classical art forms, music, dance, and literature, showcasing a deep appreciation for aesthetics and cultural expressions. In recent times, there has been a renewed interest in reviving and integrating traditional Indian knowledge with contemporary fields, recognizing its timeless wisdom and relevance in addressing modern challenges. The Indian Knowledge System serves as a valuable source of inspiration and a reservoir of ancient wisdom that continues to influence various aspects of contemporary life and thought.



Computer facility at Library Government College Narnaul



Government College, Narnaul

1. Day and Night Temperature Update Device (District level):

The Day and Night Temperature Update Device represents a significant advancement in temperature monitoring technology. Its ability to provide real-time, day-and-night temperature updates. Whether used in agriculture, meteorology, or smart home environments, this device empowers users with the information they need to make informed decisions based on current and historical temperature trends. This device installed at Government college Narnaul serves as a valuable tool in educational institutions for teaching purposes and research projects related to environmental science and climate studies. By distinguishing between day and night temperatures, the device provides a comprehensive view of the environmental conditions over a 24-hour cycle.



2. Wind Vane

A wind vane, which is installed at the rooftop of our college building also known as a weather vane, is a simple yet effective device designed to indicate the direction of the wind. Typically mounted on a fixed post or elevated structure, a wind vane consists of a freely rotating arrow or pointer that aligns itself with the direction of the prevailing wind. The arrow is usually marked with cardinal points (north, south, east, west) to provide a clear indication of the wind's compass direction. Wind vanes are valuable tools in meteorology, aiding weather observers in understanding local wind patterns. They are commonly found on weather stations, rooftops, and other structures where accurate wind direction information is essential. With their straightforward design, wind vanes offer a visual and intuitive means of gauging the wind's movement, making them a reliable and widely used instrument for wind direction measurement.



3. Rain Gauge

A rain gauge installed at Govt. College Narnaul, is a fundamental instrument designed for the precise measurement of rainfall. Consisting of a cylindrical container with a graduated scale, the rain gauge collects and quantifies the amount of precipitation that falls within its opening. Positioned in open areas away from obstacles, the gauge captures rainwater, allowing for accurate measurement in millimeters or inches. Variations of rain gauges include standard graduated cylinders, tipping bucket gauges, and electronic versions that automatically record rainfall data. The data collected by rain gauges are crucial for meteorologists, hydrologists, and climatologists in understanding local precipitation patterns, water resource management, and climate studies. These devices play a pivotal role in monitoring and forecasting weather conditions, contributing essential information to enhance our understanding of the Earth's hydrological cycle.



Computer Department, Govt. College, Narnaul

Infrastructure Facilities

Laboratories:

The Computer Science Department at our institution stands as a hub of academic excellence, offering a diverse range of courses to cater to the evolving landscape of technology. At the postgraduate level, students can pursue a Master's in Computer Science (M.Sc.) to delve deeper into the intricacies of the field, or opt for a Post Graduate Diploma in Computer Applications (PGDCA) to gain specialized skills for immediate industry application.

For undergraduates, the department provides a solid foundation through two bachelor's degree programs – a Bachelor in Computer Applications (BCA) and a Bachelor of Science in Computer Science (B.Sc.). These undergraduate courses are designed to equip students with fundamental knowledge and practical skills essential for a successful career in the dynamic field of computer science.

With a team of ten dedicated faculty members, the department ensures a rich learning environment. The faculty, comprising experienced educators and industry professionals, guide students in both theoretical understanding and practical implementation of concepts. Their expertise covers a wide spectrum of topics, fostering a holistic and comprehensive learning experience for aspiring computer scientists. As a result, the Computer Science Department remains committed to nurturing the next generation of tech leaders and innovators.



Computer Lab-I (Room no. 45)



Computer Lab-II (Room no. 46)



Computer Lab-III (Room no. 47)



Computer Lab-IV (Room no. 48)

Departmental Library:

A departmental library is a critical knowledge hub where students develop reading habits and gain valuable lifelong skills. It is necessary for supporting the curriculum and research. Both students and teachers benefit from well-stocked libraries in a significant way. it is defined as a subject collection in an academic institution, housed either in a separate room of the main Library or in some building outside the main Library. Textbooks, reference books, and educational materials are readily available for students to delve deeper into the subjects they are studying. Moreover, the library also houses a variety of fiction and non-fiction books that can broaden students' knowledge and stimulate their curiosity.



Computer Department Library

Expert Talk:-

1.Machine learning:-





2. AI:-



M.Sc. First Year

<u>Semester-I</u>

Course No.	Paper	(L:T:P)	Credits	UniversityExams	Internal Assessment	Total
M.SC2101	Discrete Mathematics	4.0.0	4	80	20	100
		4:0:0	4	80	20	100
M.SC2102	Data Structures and Algorithms	4:0:0	4	80	20	100
M.SC2103	Database Design Concepts	4:0:0	4	80	20	100
M.SC2104	Modern Operating Systemwith UNIX	4:0:0	4	80	20	100
M.SC2105	Computer Organizationand Architecture	4:0:0	4	80	20	100
M.SC2106	Software Lab-1 Data Structure Lab	0:0:4	2	80	20	100
M.SC2107	Software Lab-2 UNIX and DBMS Lab	0:0:4	2	80	20	100
M.SC2108	Seminar	-	1	-	-	25
			25	560	140	725

Practical Examination of M.SC.-2106 & 2107 may be conducted on the same day in 2 sittings each maximum of 4 hours.

M.SC. First Year

Semester-II

Course No.	Paper	(L:T:P)	Credits	University Exams	Internal Assessment	Total
M.SC2201	Object Oriented Programming with Java	4:0:0	4	80	20	100
M.SC2202	Theory of Computation	4:0:0	4	80	20	100
M.SC2203	Computer Networks	4:0:0	4	80	20	100
M.SC2204	Computer Graphics & Multimedia	4:0:0	4	80	20	100
M.SC2205	Software Engineering & Testing	4:0:0	4	80	20	100
M.SC2206	Software Lab-3JAVA Lab	0:0:4	2	80	20	100
M.SC2207	Software Lab-4CG Lab	0:0:4	2	80	20	100
M.SC2208	Seminar	-	1	-	-	25
	Total Credits		25	560	140	725

Practical Examination of M.SC.-2206 & 2207 may be conducted on the same day in 2 sittings each maximum of 4hours.

M.SC. Second Year

Semester-III

Course No.	Paper	(L:T:P)	Credits	UniversityExams	Internal Assessment	Total
M.SC2301	Artificial Intelligence	4:0:0	4	80	20	100
M.SC2302	Data Mining andwarehouse	4:0:0	4	80	20	100
M.SC2303	Analysis DesignAlgorithms	4:0:0	4	80	20	100
M.SC2304	Scripting Technology	4:0:0	4	80	20	100
M.SC2305	Elective-I (See inList)	4:0:0	4	80	20	100
M.SC2306	Software Lab-5 MATLAB and Prolog Lab	0:0:4	2	80	20	100
M.SC2307	Software Lab-6 Web Technology Lab	0:0:4	2	80	20	100
M.SC2308	Seminar	-	1	-	-	25
	Total Credits		25	560	140	725

Practical Examination of M.SC.-2306 & 2307 may be conducted on the same day in 2 sittings each maximum of 4hours.

M.SC. Second Year

Semester-IV

Course No.	Paper	(L:T:P)	Credits	UniversityExams	Internal Assessment	Total
M.SC2401	Machine Learning & DataAnalytics using Python	4:0:0	4	80	20	100
M.SC2402	Blockchain Technologyand Quantum Computing	4:0:0	4	80	20	100
M.SC2403	Principles of Systems Programming & CompilerDesign	4:0:0	4	80	20	100
M.SC2404	Cloud Computing	4:0:0	4	80	20	100
M.SC2405	Elective-II	4:0:0	4	80	20	100
M.SC2406	Software Lab-7Python Lab	0:0:4	2	80	20	100
M.SC2407	Project	0:0:6	3	80	20	100
M.SC2408	Elective - III	-	3			-
	Total Credits		28	560	140	700

1. Industrial visit may also be conducted.

2. Practical Examination of M.SC.-2306 may be conducted on the same day in 2 sittings each maximum of 4hours.

Note: For Elective-III course, the students will opt the NPTEL courses/online mode class by the university) and submit the certificate in the University/College. The credits will be transferred accordingly in their mark sheet by the university.

General Instructions

Seminar

Max. Marks-25

Students are required to prepare a presentation on any topic, not from syllabus, assigned by the teacher concerned in the department on the theme/topic such as review of research papers/articles published in national or internal journal or any other research based paper in his/her area of interest. Every candidate will have to deliver a seminar of 15-20 minutes duration on the assigned topic. The seminar will be delivered in the presence of students and teachers of the department on any fixed week day of the semester.

The seminar will be evaluated by an internal committee of two internal teachers, constituted by the Chairperson of the Department. The evaluation (internal evaluation only) will be based on the presentation of the student, depth of subject matter of the topic and answer to questions. There will be a Coordinator to be nominated by the Chairperson of the Department among the teachers of the Department.

Distribution of marks will be as follows:

- 1. Presentation = 10 Marks
- 2. Relevancy & Depth of subject matter of the topic = 10 Marks
- 3. Answers to the Questions = 5 Marks

PGDCA Semester-I

Course No.	Paper	(L:T:P)	Credits	University Exams	Internal Assessment	Total
PGDCA -2101	Object Oriented Programming with Java	5:0:0	5	80	20	100
PGDCA -2102	Modern OperatingSystem with UNIX	5:0:0	5	80	20	100
PGDCA -2103	Computer Networks	5:0:0	5	80	20	100
PGDCA -2104	Computer Graphics & Multimedia	4:0:0	4	80	20	100
PGDCA -2105	Software Engineering & Testing	4:0:0	4	80	20	100
PGDCA -2106	Software Lab-1 Java Programming Lab	0:0:4	2	80	20	100
PGDCA -2107	Software Lab-2 CG Lab	0:0:4	2	80	20	100
PGDCA -2108	Software Lab-3Unix Lab	0:0:4	2	80	20	100
PGDCA -2109	Seminar	-	1	-	-	25
PGDCA -2110	Self Study Paper	-	1	-	-	25
			31	640	160	850

*Practical Examination of PGDCA -2106, 2107 & 2108 may be conducted on the same day in 2 sittings each maximum of 4 hours.

PGDCA Semester-II

Course No.	Paper	(L:T:P)	Credits	University Exams	Internal Assessment	Total
PGDCA-2201	Data Structures and Algorithms	4:0:0	4	80	20	100
PGDCA-2202	Database Design Concepts	4:0:0	4	80	20	100
PGDCA-2203	Python Programming	4:0:0	4	80	20	100
PGDCA-2204	Cloud Computing	4:0:0	4	80	20	100
PGDCA-2205	Artificial Intelligence	4:0:0	4	80	20	100
PGDCA-2206	Software Lab-4 A. Data Structures Lab B. Python Programming Lab	0:0:4	2	80	20	100
PGDCA-2207	Software Lab-5 Database Lab	0:0:4	2	80	20	100
PGDCA-2208	Project	0:0:4	2	80	20	100
PGDCA-2209	Seminar	-	1	-	-	25
PGDCA-2210	Self Study Paper	-	1	-	-	25
	Total Credits		28	640	160	850

*Practical Examination of PGDCA-2206, 2207 & 2208 may be conducted on the same day in 2 sittings each maximum of 4 hours.

Government College, Narnaul

scientific and innovative atmosphere for academic pursuits at Department of Mathematics

Usefulness of various subject taught at department of mathematics:

- The operating system is used everywhere today, such as banks, schools, hospitals, companies, mobiles, etc. No device can operate without an operating system because it controls all the user's commands.
- LINUX/UNIX operating system is used in the bank because it is a very secure operating system.
- MATLAB is vast software that allows symbolic calculations and the manipulation of complex mathematical formulas. It contains extensive capabilities for generating graphs and other useful tools for mathematicians, engineers, researchers and economists alike.
- Statistics is used in many sectors such as psychology, geology, sociology, weather forecasting, probability and much more. The goal of statistics is to gain understanding from the data, it focuses on applications, and hence, it is distinctively considered as a mathematical science.
- In a nutshell, a database management system works as follows: It organizes your database files and provides end users more access and control over their data. To accomplish this, A DBMS allows users to manipulate the data in their database files, including creating, editing, and updating it when needed.
- Operations research (OR) is the mathematical study of resource allocation problems, decisions, games, uncertainty, scheduling and optimization. The various sub-disciplines of OR yield both analytic and computational tools that allow for mathematical modelling and efficient problem solving. Use of ICT:
- The use of ICT :(Information, Communication, and Technology) in Mathematics provides great support for teaching and learning in Mathematics. ICT gives educators the chance to take advantage of the notion that it can help students in visualising mathematical ideas and concepts. However, ICT can really provide effective support where teachers are equipped with the necessary abilities on how to use technologies in the Mathematics teaching and learning process.





Indira Gandhi University, Meerpur (Rewari) Scheme of Examination M.Sc.(Mathematics with Computer Science) Learning Outcomes Based Curriculum Framework (LOCF) w.e.f. Session 2023-24

Semester-I

Core Courses

Course	Title of the Course	Theory	Internal	Practical	Credits	Total
Code		Marks	Marks	Marks	L:T:P	Credits
23MCS-101	Abstract Algebra	80	20	-	4:1:0	5
23MCS-102	Mathematical Analysis	80	20	-	4:1:0	5
23MCS-103	Ordinary Differential Equations	80	20	-	4:1:0	5
23MCS-104	Complex Analysis	80	20	-	4:1:0	5
MCS-105	Programming in C and	60	-	40	2:0:2	4
	Data Structure					
MCS-106	Operating System and Unix	60	-	40	2:0:2	4

Total Credits : 28 Max Marks : 600

Note: The criteria for awarding internal assessment of 20 marks for each paper shall be as under : (i) Sessional test : 10 marks

(1) Sessional test	: 10 marks
(ii) Assignment/Presentation	: 5 marks
(iii) Attendance	: 5 marks
Less than 65%	: 0 marks
65% and above but upto 70%	: 2 marks
Above 70% but up to 75%	: 3 marks
Above 75% but up to 80%	: 4 marks
Above 80%	: 5 marks

Scheme of Examination M.Sc.(Mathematics with Computer Science) Learning Outcomes Based Curriculum Framework (LOCF) w.e.f. Session 2023-24

Semester-II

Core Courses

Course Code	Title of the Course	Theory	Internal	Practical	Credits	Total
		Marks	Marks	Marks	L:T:P	Credits
23MCS-201	Field Extensions and Galois Theory	80	20	-	4:1:0	5
23MCS-202	Measure and Integration Theory	80	20	-	4:1:0	5
23MCS-203	Integral Equations and	80	20	-	4:1:0	5
	Calculus of Variations					
23MCS-204	General Topology	80	20	-	4:1:0	5
MCS-205	Object Oriented Programming	60	-	40	2:0:2	4
	with C++					

Discipline Centric Elective Courses (Any one)

Course Code	Title of the Course	Theory	Practical	Credits	Total
		Marks	Marks	L:T:P	Credits
MCS-208	Data Communication and Networking	60	40	2:0:2	4
MCS-209	Information and Communication Technology	60	40	2:0:2	4

Foundation Elective Course

To be chosen from the pool of Foundation Elective Courses	Max. Marks	Credits
provided by the University	50	2

Total Credits : 30 Max Marks : 650

Scheme of Examination M.Sc.(Mathematics with Computer Science) Learning Outcomes Based Curriculum Framework (LOCF) w.e.f. Session 2024-25

${\bf Semester-III}$

Core Courses

Course Code	Title of the Course	Theory	Internal	Practical	Credits	Total
		Marks	Marks	Marks	L:T:P	Credits
24MCS-301	Functional Analysis	80	20	-	3:1:0	4
24MCS-302	Partial Differential Equations	80	20	-	3:1:0	4
24MCS-303	Fluid Dynamics	80	20	-	3:1:0	4
24MCS-304	Mathematical Statistics	80	20	-	3:1:0	4

Discipline Centric Elective Courses (Any two)

Course Code	Title of the Course	Theory	Internal	Practical	Credits	Total
		Marks	Marks	Marks	L:T:P	Credits
MCS-307	Computer Graphics and Multimedia	60	-	40	2:0:2	4
MCS-308	MATLAB	60	-	40	2:0:2	4
MCS-309	Software Engineering	80	20	-	4:0:0	4
MCS-310	Core Java	60	-	40	2:0:2	4
MCS-311	Information Security	60	-	40	2:0:2	4
MCS-312	Cyber Security	60	-	40	2:0:2	4

Open Elective Course

To be chosen from the pool of open elective courses provided by the University	Max. Marks	Credits
(excluding the open elective course offered by the Department of Mathematics)	100	3

Total Credits : 27 Max Marks : 700

Note: Optional papers can be offered subject to the availability of requisite resources/faculty.

Scheme of Examination M.Sc.(Mathematics with Computer Science) Learning Outcomes Based Curriculum Framework (LOCF) w.e.f. Session 2024-25

Semester-IV

Core Courses

Course Code	Title of the Course	Theory	Internal	Credits	Total
		Marks	Marks	L:T:P	Credits
24MCS-401	Inner Product Spaces and Measure Theory	80	20	3:1:0	4
24MCS-402	Classical Mechanics	80	20	3:1:0	4
24MCS-403	Discrete Mathematics	80	20	3:1:0	4
24MCS-404	Operations Research Techniques	80	20	3:1:0	4

Discipline Centric Elective Courses (Any two)

Course Code	Title of the Course	Theory	Internal	Practical	Credits	Total
		Marks	Marks	Marks	L:T:P	Credits
MCS-407	Database Management System	60	-	40	2:0:2	4
MCS-408	Data and File Structure	60	-	40	2:0:2	4
MCS-409	Network Security	60	-	40	2:0:2	4
MCS-410	Digital Image Processing	60	-	40	2:0:2	4
MCS-411	Artificial Intelligence and Expert Systems	60	-	40	2:0:2	4
MCS-412	Data Warehousing and Mining	60	-	40	2:0:2	4

Total Credits : 24 Max Marks : 600

Total Credits of the Programme : 28 + 30 + 27 + 24 = 109Max Marks of the Programme : 600 + 650 + 700 + 600 = 2550

Note: Optional papers can be offered subject to the availability of requisite resources/faculty.

Department of Physics

Physics Laboratories

Department of Physics have two physics laboratories named junior lab (room no-27) and senior lab(room no-26) which are is very well equipped with Modern Experimental Apparatus. Physics Laboratory is designed for Eight Experiments for each semester including computers programming in Fortran language. AIM of the Laboratory course is to gain Practical Knowledge through observation and Practice. Teachers in the department motivate the undergraduate students by learning by doing method.

The curriculum for the physics laboratory is designed to get hands on experience on the theoretical concepts in the classroom. Students at physics laboratory perform experiments related to mechanics, optics, Thermodynamics, electricity and magnetism and electronics. The physics labs contain equipment like Hall Effect, Four probe, transistor characteristics and amplifier, series/parallel resonance circuit, laser related experiment, mechanics section experimental setup CRO, Newton Ring Experimental setup, young Modulus Determination Experimental setup, CRO, and various Electronics and mechanics Setup etc.

In addition, we have two dark rooms for various optics related experiments such as Newton rings, Young's double experiment, angle of prism/ minimum deviation of prism, diffraction grating resolving power of telescope, He-Ne laser and many more.





Departmental Library

Our Physics Department's library is like a treasure trove of knowledge. It has lots of books and resources about how things work in the universe, from basic physics to super advanced stuff like quantum theory. You can also find information online there. This library is where curious minds meet, where we learn new things, get inspired, and explore the mysteries of physics together. This library contains text books on mechanics, electricity, thermodynamics, optics statistical mechanics, solid state physics, nuclear physics, quantum and classical mechanics, experimental physics and many more.



Smart board

One of the lab in the department of physics is also equipped with smart board and related accessories interactive flat panels, Computer, Projectors etc. All the faculty members are convenient with use of ICT tools in their teaching work. The faculty members of the department are using power point presentations, videos & animations content for the better conceptual clarity to the students in their classes



DEPARTMENT OF ZOOLOGY, GOVT. COLLEGE NARNAUL

The Zoology Department at our esteemed institution is a thriving hub of scientific exploration, dedicated to unravelling the mysteries of the animal kingdom. Our department proudly offers both undergraduate (UG) and postgraduate (PG) courses in zoology, providing students with a robust foundation in the biological sciences. Our commitment to fostering a deep understanding of animal diversity, behaviour, and ecology sets the stage for future leaders in the field.

At the heart of our department's success are two ultra-modern laboratories that serve as the epicentre for cutting-edge research and hands-on learning. These state-of-theart facilities are equipped with advanced technologies, enabling students to engage in impactful experiments, molecular studies, and ecological investigations. The laboratories provide an immersive experience, allowing students to bridge theoretical knowledge with practical applications, preparing them for real-world challenges in the field of zoology.



Our distinguished faculty, comprised of accomplished researchers and educators, guide students through a dynamic curriculum that integrates traditional teachings with contemporary advancements. The UG and PG courses encompass a broad spectrum of topics, from evolutionary biology to animal physiology, conservation biology, and ethology.


Graduates from our program emerge with a profound understanding of the intricacies of the animal world, poised for impactful careers in research, conservation, academia, and beyond. Join us at the forefront of zoological exploration, where passion meets purpose, and scientific inquiry shapes the future of our planet

Smart Class Rooms:

The classrooms of Zoology Department are well equipped with ICT tools like interactive flat panels, Computer, Projectors etc. All the faculty members are convenient with use of ICT tools in their teaching work. The faculty members of the department are using power point presentations, videos & animations content for the better conceptual clarity to the students in their classes.

Departmental Library:

The library of Zoology department has a collection of approx. 105 books of Endocrinology related to its various domains like General Zoology, Physical Zoology, Cell biology, Palaeontology, structural Zoology, Economic Zoology, Vertebrates and Invertebrates etc.



कार्यालय प्राचार्य राजकीय महाविद्यालय, नारनौल। कार्यालय आदेश – १५१८ दिनांकः – ०१/०२/११

महाविद्यालय के छात्र∕छात्राओं के सांसकृतिक∕शक्षैणिक⁄ऐतिहासिक भ्रमाण हेतु जो tour राजस्थान में विभिन्न एतिहासिक स्थानों पर दिनांक 9–2–2019 सॉय से 13–2–2019 प्रातः तक जाना है उसके लिए निम्नलिखित प्राध्यापकों को tour ले जाने हेतु नियुक्त किया जाता हैं।

क० सं०	प्राध्यापक का नाम
1.	Dr. Hawa Singh Yadav, Tour Incharge
2	Dr. Meena Yadath Chander Mohan
3.	Ms. Poonam/Yadav
4.	Dr. Kanta Yada
5.	Sh. Arvind Yadav
6.	Dr.Dheeraj Kumar

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Note: Ms.Poonam Yadav W/o Sh. Arvind Yadav and Dr.Kanta Yadav W/o Dr. Dheeraj Kumar are couple cases. Hence Sh.Arvind Kumar and Dr. Dheeraj Kumar are deputed on duty leave for the extra security of girl students without TA/DA.

Mala प्राचार्य राजकीय महाविद्यालय, नारनौल

कार्यालय प्राचार्य राजकीय महाविद्यालय, नारनौल

कार्यालय आदेश 9444

दिनांकः- 16.02.2019

महाविद्यालय के छात्र/छात्राओं के सास्कृतिक/शैक्षिणिक/ऐतिहासिक भ्रमण हेतू जो Tour राजस्थान में विभिन्न ऐतिहासिक स्थानों पर दिनांक 16.02.2019 सांय से 20.02.2019 प्रातः तक जाना है उसके लिए निम्नलिखित प्राध्यापकों को Tour ले जाने हेतू नियुक्त किया जाता है।

कं० सं०	प्राध्यापक का नाम
1.	Dr. Hawa Singh Tour Incharge
2.	Dr. Chander Mohan Member

Date: Page No.: HEILGENERY & MONTON 2151 Ta SIRT Agerria vi at misit m lick -allo 2154 \$ 79 215 Tour 6 13.0 そん ほうろ 9/2/2019 To 16/2/2019 5 20.2. Egnistienty SII Egilde 20.2-64 رردر मायो के राजास्यान राज्य stat a ろ 19 12 m Carlos Pacillay 11 4 93 5211311 6211EM 2-311-1193 SIMALY 135 -1 , , 27,7 , 2glast 318 1 5 21 2 41 3211371 Boy nisilis 42/23 37 STENT 09 56 A JUR igni RAZ 05 1 mo 29 Pacifiant of 324, 12 F -51215 माहिएट आहू, आजमेर, पुढवर, सिरोह हारि स्वानों 57 मुम्म ग्रियोग / 5143 1513 Ort HOD Mano J pumar



Date : age No.: on occasion of world Environment day Deptt of Geography has arganised Two days Environment Conservation mativation Programmed Lineo Postelmilip I hangoli, Deboli and Essay writip Compitations from 4-5 June 2022. on 11 last day i.e. st gyre 2022. Dr Satyabis, DBSD. Port. and Princips Yaduvanshi degre calle fe, Patikara regrand has delivered an extension Lastule to save an mother produkt Farth." occasion of world Environment day talk Earth (Dr H-J. Y-dow) bumar Manot

कार्यालय प्राचार्य, राजकीय महाविद्यालय नारनौल

uld क्रमांक: राठमठनाठ / 2023 / 2498 Parias: 10/01/2023 महाविद्यालय के भूगोल विभाग का एक भोगोलिक ग्रमण दल भौगोलिक सर्वेक्षण के लिए दिनांक 12/01/2023 सायं रो 16/01/2023 सुबह तक राजस्थान के विभिन्न भौगोलिक स्थलों यथा माउंट आबू उदयपुर एवं Content का राजस्थान के विभिन्न भौगोलिक स्थलों यथा माउंट आबू उदयपुर एवं Content का राज राजस्थान के है। उक्त टूर के लिए निम्न प्राध्यापकों की इयूटी लगाई काल छिन् 1 डॉठ हवा सिंह यादव, एसोठ प्रोठ भूगोल (टूर रंगाव) भूटिंग 2. डॉठ सुमाष चन्द्र, सहायक प्राध्यापक भूगोल 3. श्रीमति पूनम राव, सहायक प्राध्यापक भूगोल 4. श्रीमति पूनम यादव, सहायक प्राध्यापक भूगोल भी अर्ट्या क्रिक्त प्राध्यापक भूगोल स्थल देवर की क्रम्प क्रम्प भूगोल स्थल देवर की क्रम्प का प्राच्यापक भूगोल स्थल देवर की क्रम्प राज्य प्राच्यापक भूगोल स्थल देवर की क्रम्प का का क्रम्प भूगोल स्थल देवर की क्रम्प का का क्रम्प का स्थलम् राजकीय मह्याप्रिल्य नारनील। Govi College Narnau

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GEOGRAPHY LAB -

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Govt College Narnaul, Botany Department

Infrastructure Facilities

Laboratories :

Department of Botany, Govt. College Narnaul have two (02) labs . The lab has sophisticated equipments to perform studies in Plant Anatomy , Plant Taxonomy and various experiments in Plant Physiology , cytology , Molecular Biology , Bioinformatics and Ecology.

Labs and Facilities

- . Botany Lab 1 (General lab)
- . Botany Lab 2 (Plant Systematic lab)

Botany Museum – has a well displayed Museum with preserved plant specimens of Algae , Fungi ,
Lichen , Bryophytes , Pteridophytes , Gymnosperm ,Xerophytes , Hydrophytes , insectivorous plants and epiphytes . Herbarium of valuable plants collected during various study tours are also kept for references
An inoculation room with Laminar air Flow chamber is used to create a contamination free work environment for inoculation purposes.



Botany Lab 1 (General Lab)

Botany Lab 2 (Plant Systematic Lab)



Botanical Garden :

A botanical Garden has been established in lawn of the Botany Department . A variety of medicinal plants , Angiospermic plants , gymnospermic plants , mosses and ferns etc are grown in the botany garden .

The objective of Botanical Garden is to aware all college students & society about the diversity of plants and medicinal uses .



Departmental Library:

The library of Botany department have a collection of approx. .100 books of botany related of its various domains like Plant Genetics, Plant Taxonomy, Plant physiology, Fungi, Algae, Angiosperm, Gymnosperm, Plant Ecology etc. Departmental library also have collection of botanical literature in the form of Field Reports, Journals and Research Papers etc.

Smart class room

The classroom of Botany Department are well equipped with ICT tools like interactive flat panels , computer , Projectors etc . All faculty members using power point presentation , videos and animation content for the better conceptual clarity to the students in their classes .

Gout. College Narnaul Department of Chemistry Chemical Society

All the Students are informed that chemical Society will organize "Know your lab" contest and Seminar on dated 30-11-2022 and 29-11-2022 respectively. Participation of all Students are "muited Give their name to Dr Bhupender, Dharmeet Sami and Brahmdutt. Ull 28-11-2022.

Ship 25/11/22 HOD chemistry dept.

: NAME		,	Page No 21 Date _/ _20_	
	Roll NO	CUAJ	CONTACT	SIGN.
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Deepika	191131104134	Bisc Tod (M)	9588751796	Deepika
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Akash	211121103029	BSC1 ^{SI}) (NM)	9467949308	Akash
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'नो यूअर लैब' प्रतियोगिता में विपिन और राहुल ने मारी बाजी



स्टाफ सदस्यों के साथ विजेता विद्यार्थी। संवाव

नारनौल। राजकीय महाविद्यालय नारनौल में केमिकल सोसायटी के द्वारा 'नो यूअर लैब' प्रतियोगिता का आयोजन किया गया। भविष्य के शिक्षकों विषय पर आधारित प्रतियोगिता का शुभारंभ बतौर मुख्य अतिथि डॉ. राष्ट्रपाल द्वारा किया वया।

कार्यक्रम की अध्यक्षता रसायन विभागाध्यक्ष डॉ. भूषेंद्र यादव तथा संचालन ध्वनित सैनी और पारुल यादव ने को। डॉ. सरिता यादव, डॉ. हिमालिका और डॉ. सुमन शर्मा ने निर्णायक मंडल को भूमिका निभाई। प्रतियोगिता में प्रथम स्थान विपिन वोएससी अंतिम वर्ष और राहुल वीएससी प्रथम वर्ष, द्वितीय स्थान लक्ष्य वीएससी द्वितीय वर्ष, पल्लवो बोएससी प्रथम वर्ष एवं तृतीय स्थान रवीना वीएससी तृतीय वर्ष और सन्नी बोएससी प्रथम वर्ष ने प्राप्त किया।

Allin for all 122

The Krencipal Govt. College Narnaul Subject: Permission for conducting Seminar "Teacher for future" on dated 29-11-2022.

Kespected Sis. With due respect, we want to Enform you that Chemical society willing to conduct seminar "Teacher For Future" for P.G students Kindly grant us permission to conduct seminar Thanking you in anticipation. Yours pairtufully Department of Chemistry Hos dept

Parul Yadau Again "Rechand Dut Rehr

TO

Judges for the above mentioned activities are as

follows (i) Dr. Sonu Jaglan (11) Dr. Vijender Bingli for aller

राष्ट्रपाल ने किया। कार्यक्रम की अध्यक्षता रसायनिक विभागाध्यक्ष डॉ. भूपेंद्र यादव तथा संचालन व्रह्मदत्त आर्य ने किया। प्रतियोगिता में 22 प्रतिभागियों ने सामाजिक, वैज्ञानिक व अन्य मुख्य विपयों पर अपने-अपने व्यक्तव्यों को उजागर किया। डॉ. जयपाल व डॉ. विजेंद्र सिंह ने निर्णायक मंडल की भूमिका निभाई। प्रतियोगिता में प्रथम स्थान छात्रा मेधा शर्मा, द्वितीय मुस्कान व तृतीय रिंकू ने प्राप्त किया। इस मौके पर रसायानिक विभाग से धवनीत, पारूल, हिमालिका, सुमन, पुष्पा, संजीता, सरिता व डॉ. धीरज मौजूद रहे। संवाद

नारनौल। राजकीय महाविद्यालय नारनौल में केमिकल सोसाइटी द्वारा टीचर ऑफ फ्यूर्चर प्रतियोगिता का आयोजन किया गया। भविष्य के शिक्षकों विषय पर आधरित प्रतियोगिता का शुभारंभ मुख्यतिथि डॉ. राष्ट्रपाल ने किया।

छात्रा मेधा शर्मा रही प्रतियोगिता में प्रथम



त्रिधारा पत्रिका का संपादक मण्डल



बाएं से बांए - श्री सोनू जानलान संपादक विज्ञान अनुभान, श्री अनिश कुमार संपादक वाणिज्य अनुभान, श्री सुधीर कुमार अंग्रेजी अनुभान,डॉ. पूर्ण प्रभा प्राचार्या संरक्षक, श्री नरेश यादव मुख्य संपादक, श्री सतीश कुमार सैनी संपादक कम्प्युटर अनुभान श्रीमती मीना कुमारी संपादक हिन्दी (क्वं संस्कृत अनुभान



पूर्व सांसद डॉ. सुधा यादव एवं डॉ. टंकेश्वर कुमार, कुलपति केन्द्रीय विश्वविद्यालय, हरियाणा को रमृति चिन्ह भेट करते हुए



IGU के वी.सी श्री जे. पी यादव का बुके देकर सम्मान करते हुए प्राचार्य

आजाबी के अमृत महोत्सव के अवसर पर महाविद्यालय द्वारा आयोजित तिरंगा यात्रा का प्राचार्य डा. पूर्ण प्रभा द्वारा नेतृत्व

















महाविद्यालय द्वारा आयोजित शैक्षणिक ञतिविधियों की झलक



















संरक्षक डॉ. पूर्ण प्रभा (HES-I) _{प्राचार्या} प्रधान संपादक डॉ. नरेश यादव (HES-I) एसोसिएट प्रोफैसर संपादक मण्डल

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English Section

World of Foreign Words and Phrases New Education Policy 2020 and Higher Education Role of Education in Girl'S Life Gems Lockdown Life The Twelve Steps To Self-Care Population, New Education Policy, Does Money Make Many Things? Importance of Good Health in Our Life Song of Unborn Girl Corruption Contradictions of Life Some Important Symbols Literature is the Mirror Society, Slum Education Women Empowerment Immature Thinking, Mature Thinking Front line Health Workers : The Warriors of the COVID19 Pandemic New Education Policy 2020 Technology Boon or Bane Role of NCC and How to Enhance its Relevance for the Future Failures are the Pillars of Success

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9

Dr. Naresh Yadav Dr. Sudhir Kumar Sahil Khan

Sakshi Sharma Radhika Yadav Mahima Raghav Ritika Yakshma

Nisha Renu Kumari Preeti Kumari Adarsh Bhawana Kanishak Kumar Ankit Yadav Himani

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नारनौल/रेवाड़ी work is first whit- are set a www.gurgsonloday.in राजकीय महाविद्यालय नारनौल में दीपावली मेले का आयोजन

सुरेंद्र चौधरी, गुढ़गांव दुवे

नारनीलः राजकीय महाविद्यालय भारतील के प्रांगण में दिवाली मेले और सांस्कृतिक कार्यक्रमी की मनमोहक प्रस्तृतियों का आयोजन प्राचार्य ही पूर्ण प्रभा की आध्यक्षता में बढी धुमधाम से मनाया गया। इस दिपावली मेले का मुभारंभ मां सरस्वती का पूजन और प्राधार्य के करकमली द्वारा रिव्यन कार कर विकास मामा।

प्राचार्य ही पूर्ण प्रभा मे विधार्थियों को संबोधित करते हुए कता कि महाविद्यालय में आने वाले दिपावली पर्व से पहले आनंदमय सांस्कृतिक जल्बन दिन बनाने के लिए, इस प्रकार के मेले का आयोजन से विधार्थियों में देश की सांस्कृतिक विरासत त्योष्टारों और आधुनिक हुनर सिखने का मौका विरुत्ता है। साथ ही साथ इस प्रकार की मलिविधियों से विध्वविधियों बत सर्वागीण विवतन सोता है हम दिपावली मेले के मौके पर छात्र-रात्राओं ने खारा सामग्री के स्टॉलो. हस्त कला में सम्बंधित उत्पादीं,



राजकीय महाविधालय नारनील में दीपावली मेले का उद्घाटन करती प्रायार्थ जों पूर्णप्रभा तथा छात्रों द्वारा लगाई गई खाद्य स्टालों पर विभिन्न प्रकार के व्यंजनों का स्वाद लेते छात्र एवं स्टाफ के सदस्यगण।

खेल कद की स्टाली, पेड पीधों और सींदर्य उत्पादों की स्टालों को लगाकर अपनी प्रतिधा का प्रदर्शन किया। इन दुकानों को चैनरों और मिडी के लालटेनों से सजाया गया 101

इस सम्पूर्ण कार्यक्रम में करीब 20 स्टाली को लगाया गया। मधी स्टाली पर मलवित्यालय स्टाफ सहस्यों और विद्यार्थियों ने जयबार खरीदारी की साथ ही तरह तरह के खाख पदार्थ पानी पुडी, चीला, डोसा, इडली, सांधर बहा, पेय पदार्थ दाल रोटी, प्ररूट चाट, सभी का विद्यार्थियों ने जमकर स्वाद का आनन्द लिया। सभी विभागों के सत्य पाल सलोविया के πť.

तत्वावधान में आयोजित स्टॉल्स प्रतियोगिता में सबसे ज्यादा जल्पादी को विक्री कर अर्थ शास्त्र विभाग ने प्रथम, हिंदी विभाग ने हितीय ufter firetat : तथा ज्योलीजी विभाग ने तुतीय पुरस्कार जीता इस मेले में प्राणी शास्त्र विभाग की टीम कुलसचिव

टिशायिटेंगों में फिया इंवेस्टमेंट के खेलों के माध्यम से टिकट किसी कर अपने प्रदर्शन में मायका दिल

इस मेले में जी चित्रेंद्र जी हिमालिका, जी पासल, जॉ मरिता, डॉ ध्वनित ने निर्णायक मंडल की भूमिका निभाई। उप .0. 3

पापार्य जी जगवीन सिंह और and watch it formfrint wh इस मेले में प्रदर्शनी लगाने के लिए प्रेरित किया। उन्होंने बताया कि आस्तीय परंपरा ब संस्कृति का प्रतीक दीपावली पत्रों के आवसर पर इस प्रकार के मेले के आयोजन का उद्देश्य छात्राओं में मार्केटिंग के गुर और हुनर विकसित करना है ताफि को अपने भाषी जीवन में आजीविका के लिए काम आने वाले गुणों को विकसित कर TRA' I

पविलक्ष रिलेशन अफिसर जी चंद्रमोहन ने बताया कि रीपावली मेले में अनेक प्रकार की प्रदर्शनी लगाई गई जिसमें कपहें, मिपट, रोजमर्स की सामान्य वरसर्च व भिन्न-भिन्न खाच पदार्थों की स्टॉलें थी। प्रदर्शनी में सामाओं ने अनेक प्रकार की खेल गतिविधियों से सभी का मनोर'जन किया। इस अलगर पर महाविद्यालय परिवार के सभी स्टाफ के सदस्यों के साथ बडी संख्या में विद्यार्थी उपरिश्वत रहे। 11 11