

दयानन्द महिला महाविद्यालय, कुरुक्षेत्र  
सूचना

दिनांक 03.12.2021

महाविद्यालय की सभी छात्राओं को सूचित किया जाता है कि महाविद्यालय में निम्नलिखित "Value Added Course" (30 Hours) निःशुल्क चलाए जा रहे हैं, जिनमें किसी भी संकाय की छात्राएं Admission ले सकती हैं। ये Courses सामान्य Courses के साथ चलाए जा रहे हैं। इससे सम्बन्धित जानकारी व Admission लेने हेतु निम्न प्राध्यापिकाओं से दिनांक 10.12.2021 तक सम्पर्क करें।

Retail Management	Mrs. Minakshi Thakral Mrs. Sapna Arora
Basics of Marketing	Mrs. Minakshi Thakral Mrs. Sapna Arora
Stress Management	Mrs. Urmila Singh Dr. Urmila Panghal
Yoga	Dr. Anu Chauhan
Nutrition & Fitness	Dr. Shweta Saini Ms. Upasana
मानव जीवन में नैतिक मूल्य	Dr. Suman Rajan Dr. Manjeet Dr. Seema Dr. Reeja Dr. Arti Aggarwal
Indian Constitution	Mrs. Saroj Bala
Indian National Movement	Dr. Rukmesh
Science Around Us	Mrs. Asha Malik Ms. Suman Rani

Principal  
31/12/21

Principal  
Dayanand Mahila Mahavidyalaya  
Kurukshetra (Haryana)

Attached to be true copy

Convenor  
IQAC  
Dayanand Mahila Mahavidyalaya  
Kurukshetra

श्रीमती मीनाक्षी ठाकुर  
श्रीमती उर्मिला सिंह  
डॉ० उर्मिला पंगवाल  
श्रीमती सपना अरोड़ा  
डॉ० सुमन राजान  
डॉ० अनु चौहान  
श्रीमती सरोज बाल  
डॉ० रुक्मेश  
श्रीमती अशा मलिक

Principal  
Dayanand Mahila Mahavidyalaya  
Kurukshetra (Haryana)

## Value added Course

### "SCIENCE AROUND US"

## DEPARTMENT – CHEMISTRY & PHYSICS

Session 2021-22

TIME: 30 HOURS

### Unit-I

<b>FOOD ADULTERATION</b>	Defination, Types of adulterants in food items, their impact on human health. Test for analysis of adulterants in milk & milk product, turmeric, chilli powder, sugar, oil/ghee, Besan, Honey.	3 Hours
<b>NATURAL PRODUCTS</b>	Chemistry of fruits & vegetables, different colour development, chemical constituents present in them & their deficiency disorder.	3 Hours
<b>MEDICINAL CHEMISTRY</b>	Drugs-Types- Antacids, Tranquilizers, Analgesics, Antibiotic, Antiseptics, Disinfectants. Chemicals & Drugs in food like Artificial sweetening agents, preservatives, antioxidants. Vaccine – Defination, Types, General mechanism in human body. Case study – Polio Vaccine, Covid-19 Vaccine	3 Hours
<b>POLYMERS</b>	Classification, Examples & uses in daily life, Natural & Synthetic Rubber. Alloys, their composition & uses	1.5 Hours
<b>ACID-BASE CONCEPT</b>	Defination of Acids, bases & Neutral substances, Acid-Base reactions, Natural & Synthetic indicators.	1.5 Hours
<b>CHEMISTRY IN DAILY LIFE</b>	i) Chemistry of soaps & detergents. ii) Gas filled in chips & wafer packaging. iii) Why onion make us cry? iv) Action of Baking Soda/Baking Powder. v) Why Water is Necessary? vi) Citrus fruits chemistry.	2 Hours

### Unit-II

	Introduction to Physics, Relation with other Science	1 Hour
<b>LIGHT</b>	Introduction, Transparent, Translucent & opaque objects, Reflection, Shadow, Mirrors & reflection, Interference, Diffraction, Polarization	3 Hours
<b>FUN WITH</b>	Magnetic & Non-magnetic materials, Poles of magnet,	1 Hour

Principal  
Dayanand Mahila Mahavidyalaya  
Kurukshetra (Harwar)

Convener  
IQAC  
Dayanand Mahila Mahavidyalaya  
Kurukshetra

MAGNETS	activity-to find poles of magnet, a few cautions, uses of magnet	
SOUND	Introduction, sound produced by a vibrating body, sound produced by humans, sound need a medium to propagate, Audible & inaudible sounds Noise & Music	2 Hours
BIG BANG MODEL	Abundance of the light elements, Microwave Back ground radiation, Change with cosmic epoch in the average properties of galaxies, Three things began with Big-Bang: Time, Space, Matter	2 Hours
THERMODYNAMICS	Laws of Thermodynamics – Zeroth Law, First Law, Second law, Third Law of thermodynamics Carnot's Engine, Carnot's Cycle & its application of Refrigerator.	1.5 Hours
NEWTON THIRD LAW OF MOTION	Concept, Definition & applications in daily life such as i) Walking on Road ii) Rowing a boat iii) A person moving forward during swimming iv) A gun recoils when a bullet is fired from it	1.5 Hours
STATIC FRICTION FORCE	Concept explain with fun experiment – Do pencil float (floating Rice Experiment). Galilen's Fallen object Experiment – What goes up, must come down	2 Hours

### Unit-III

PROJECT WORK	<ol style="list-style-type: none"> <li>Experiment to determine foreigners (Adulterants)</li> <li>To study acidity/amount of caffeine in different samples of Tea.</li> <li> <ol style="list-style-type: none"> <li>Activity to make your own Magnet</li> <li>Why a Ball Pen is called Ball Pen?</li> <li>Third Law of Motion Experiment.</li> <li>Galilen's related Experiment.</li> </ol> </li> </ol>	2 Hours
--------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------

Principal

HOD Chemistry

- Mrs. Asha Malik

HOD Physics

- Mrs. Suman Rani

Attached to be true copy

Principal  
Dayanand Mahila Mahavidyala  
Kurukshetra (Haryana)

Convener  
IQAC

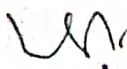
Dayanand Mahila Mahavidyalaya  
Kurukshetra

## COURSE OUTCOMES

Name of Programme: Science Around Us (Value Added Course)

- CO1: To make students familiar with the concept of science in day to day life especially for non-science background students.
- CO2: To encourage and enable students to develop inquiring minds and curiosity about science.
- CO3: To acquire knowledge, conceptual understanding and skills to solve problems and make informed decisions in scientific contexts.
- CO4: Communicate scientific ideas, arguments and practical experience accurately in a variety of ways.
- 

Attested to be true copy

  
Principal  
Dayanand Mahila Mahavidyala  
Kurukshetra (Haryana)

  
Convener

IQAC  
Dayanand Mahila Mahavidyalaya  
Kurukshetra

SESSION-2021-22 (ODD SEMESTER).  
 LIST OF STUDENTS REGISTER FOR VALUE ADDED COURSE  
 "SCIENCE AROUND US"

S.No.	Name	Class	Roll No.
1.	Aaryu		
2.	Anu	B.A-I	1212092002159
3.	Simrandeep kaur	B.A-I	1212092002039
4.	Mannat	B.A-I	2247
5.	Anshul	-do-	2242
6.	Taniya	-do-	2165
7.	Sakshi	-do-	2035
8.	Jyoti kasana	-do-	2232
9.	Aayatri sharma	-do-	2166
10.	Anupama	-do-	2108
11.	Haresh Gupta	-do-	2196
12.	Paranjit	-do-	2244
13.	sakshi	-do-	2234
14.	Arikita	-do-	2167
15.	Kajal	-do-	2085
16.	Nisha	-do-	2226
17.	Anjo	-do-	2145
18.	Naitika Devi	-do-	2060
19.	Amarinder kaur	-do-	2180
20.	Megha	-do-	2117
21.	Mahak	-do-	2039
22.	Sejal	B.com-I	1212092003059
23.	Aracy	-do-	2105
24.	Nisha	-do-	9008
25.	Manisha Panwar	-do-	9002
26.	Vanshika	-do-	9003
27.	Vanshika	-do-	9011
28.	Aarizoo	-do-	9010
29.	Manisha Rani	B.Sc-II	9059
			9009

to be true copy

Convener  
 IQAC  
 Dayanand Mahila Mahavidyalaya  
 Kurukshetra

Mahavidyalaya  
 Kurukshetra (Yana)

1202090150922

Al Juman

No.	Name	Class	Roll No.
30.	Nisha Rani	BSc-I	1212093015013
31.	Mahak	-do-	5011
32.	Swati	-do-	5009
33.	Simrandeep	-do-	5037
34.	Pritya	-do-	5020
35.	Rita	-do-	5041
36.	Mehakdeep kaur	-do-	5038
37.	Nidhi Kohila	-do-	5006
38.	Nikita Sharma	-do-	5033
39.	Muskan	-do-	5014
40.	Amrit	-do-	5001
41.	Yukta Saini	-do-	5032
42.	Rekha Goswami	-do-	5010
43.	Ritika	-do-	5057
44.	Shradha	-do-	5023
45.	Preeti Sharma	-do-	5059
46.	Muskan	-do-	5075
47.	Isha	-do-	5085
48.	Kalapna	-do-	5015
49.	Aupita	-do-	5050
49.	Aupita	-do-	5029
50.	Nisha	-do-	5016
51.	Neha	-do-	5002
52.	Mammat	-do-	5056
53.	Sakshi	-do-	5048
54.	Aanchal	-do-	5086
55.	Madhu	-do-	5025
56.	Mayank	-do-	5024
57.	Mahak Chikokar	-do-	5008
58.	Muskan dewi	-do-	5066
59.	Nancy	-do-	5077
60.	Simran	-do-	5069
61.	Meenakshi	-do-	

to be true copy

Pr  
Day  
Kur  
vidyala

Convener  
IQAC  
Dayanand Mahila Mahavidyalaya  
Kurukshetra

Al

	Name	Class	Roll No. (3)
62.	Megha Sharma	B.Sc-I	1212093015068
63.	Nishtha	-do-	5079
64.	Jageeti	-do-	5036
65.	Disha	-do-	5021
66.	Mehak	-do-	5004
67.	Shivani	-do-	5065
68.	Palak	-do-	5043
69.	Samiksha	-do-	5071
70.	Aaruzoo	-do-	5058
71.	Simran Saini	B.Sc-II	120209015029
72.	Simran Kaur	-do-	5072
73.	Muskan Rana	B.A-I	1212092002171
74.	Kavita	-do-	2040
75.	Prियanka	-do-	2041
76.	Sakshi	-do-	2068
77.	Shalini	-do-	2055

Total Registered Students → 77.  
Completed → 73

A4 *Simran*

Assured to be true copy

*MK*  
Convenor  
IQAC  
Dayanand  
Kuri

*W*  
Principal  
Dayanand Mahavidyalaya  
Kurukshetra (Maryana)