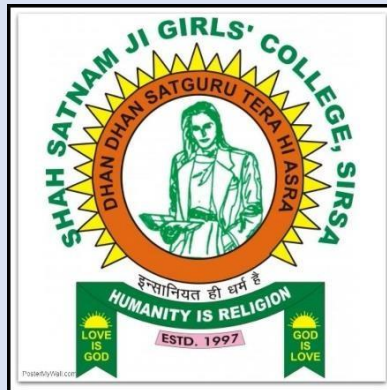


**SHAH SATNAM JI GIRLS' COLLEGE,  
SIRSA (HRY.)**

**(CHAUDHARY DEVILAL UNIVERSITY, SIRSA)**



**DEPARTMENT OF COMPUTER SCIENCE**

**ORGANIZES**

**CERTIFICATE COURSE**

**ON**

**ARTIFICIAL INTELLIGENCE**

**(30 HOURS)**

**2<sup>nd</sup> September-20<sup>th</sup> November**

**SESSION: 2024-2025**

## **ABOUT THE COLLEGE**

Shah Satnam Ji Girls' College, Sirsa is a name of synonymous with quality and excellence not only in academics but also in sports, cultural programmes, decorum, social and ecological concerns and spiritual and ethical values. As a centre of excellence in education Shah Satnam Ji Girls' College acts as an oasis in the educational dry region of Haryana.

This College was established in 1997 by his holiness 'Saint Gurmeet Ram Rahim Singh Ji Insaan' to promote women education.

This College is affiliated to Chaudhary Devilal University, Sirsa. Even Since its inception, it has been striving to inculcate competitive and innovative skills so that students could become creators of a better tomorrow. The students studying here competent enough to carve a niche for themselves in the professional world.

## **DEPARTMENT OF COMPUTER SCIENCE**

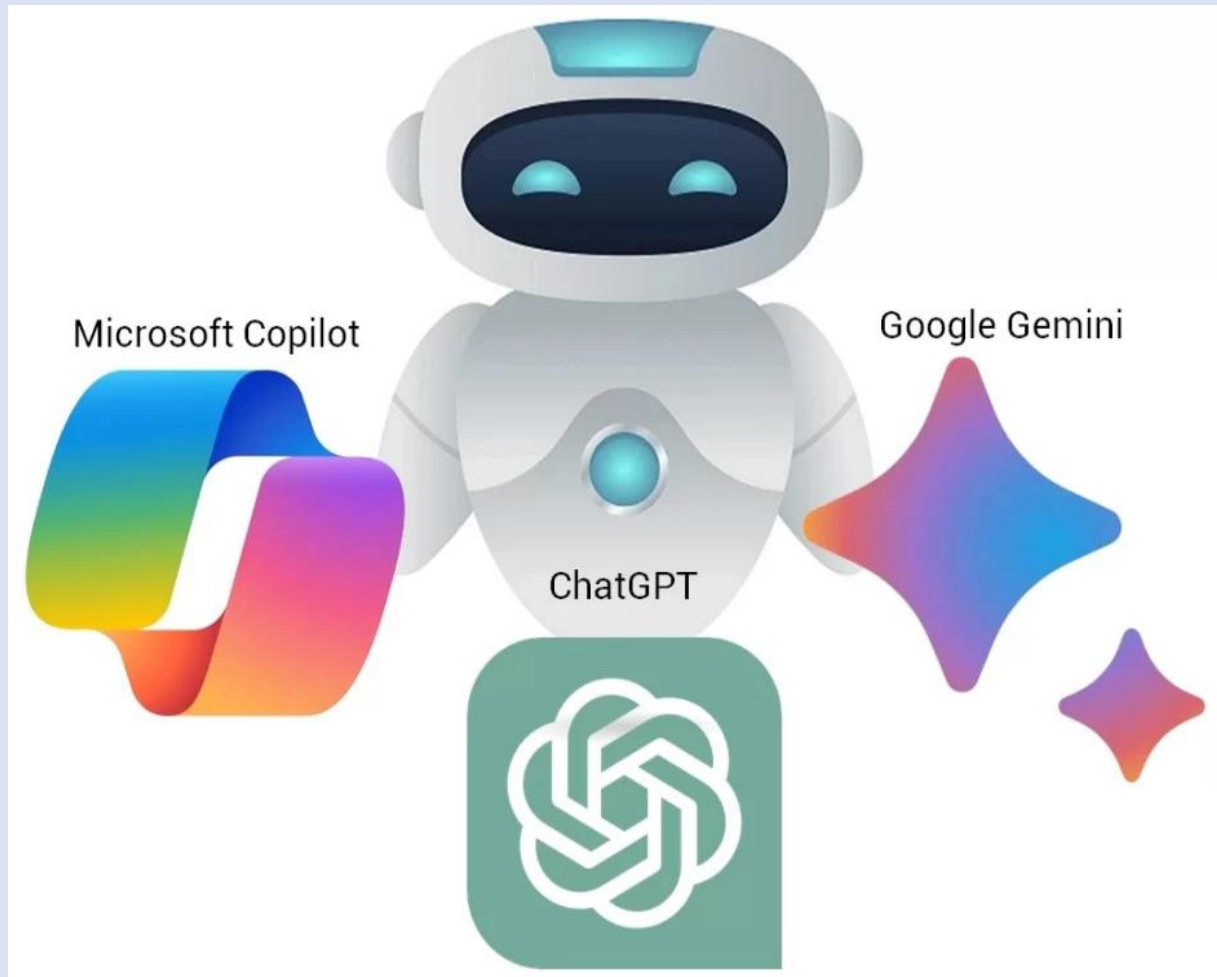
Welcome to Department of Computer Science is where the future happens.

BCA is a three-year undergraduate degree program that focuses on computer applications and software development. It is a popular choice for students who want to enter the information technology (IT) field. Moreover, the IT industry is one of the fastest-growing industries in India, and there is a high demand for skilled IT professionals.

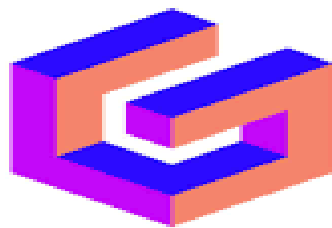
BCA course offers students a comprehensive education in various IT skills, fostering proficiency in programming languages.

After completing a BCA course, you can work as a software developer, web developer, system analyst, network administrator, database administrator, or IT project manager.

## COURSE CONTENT



## How To Use Gamma AI For Presentation



# **COURSE OBJECTIVES**

Course Description: This course aims to introduce the fundamental concepts of artificial intelligence (AI) to individuals from all academic backgrounds. Participants will develop a broad understanding of AI technologies, their implications, and their potential applications in various fields. The course will emphasize practical examples and real-world case studies to facilitate comprehension and inspire innovative thinking.

## **Course Objectives:**

- Understand the basics of artificial intelligence and its subfields.
- Explore real-world applications of AI across different industries.
- Gain insights into the ethical, social, and economic implications of AI.
- Develop an appreciation for the potential of AI to drive innovation and transformation.
- Introduce the concepts of Expert Systems and machine learning.
- Gain experience in how artificial intelligence, machine learning, and generative AI can be used to improve content, productivity, and business processes
- Explore generative AI use cases for text, image, and code generation, chatbots, and search
- Generate text using OpenAI and Google large language models for writing, coding, translation, language processing, and chat
- Create images and content for marketing campaigns, presentations, and more
- Harness AI tools for speech-to-text, text-to-speech, and music generation
- Compare the current offerings for generative AI technologies from the leading providers.

## **FLOW OF COURSE**

- Participants have to give their names to Ms. Rupa and Ms. Neha Arora.
- All the students of class BCA, B.Com (GEN & VO.), BBA, B.Sc, BAJMC [Final year] must be participating.
- Practical and Written evaluation system will be adopted to judge the knowledge of the students.
- Certificates will be issued to the students securing at least 60% marks.

# LEARNING OUTCOMES

## Course Outcome:

- Define and explain the fundamental concepts and subfields of AI.
- Identify real-world applications of AI across various industries.
- Analyze the ethical, social, and economic implications of AI.
- Recognize the potential of AI to drive innovation and transformation in different domains.
- Students will gain hands-on experience in generating high-quality text for a variety of purposes, including writing, translation, summarization, and coding.
- Students will create and modify images using generative AI for marketing, design, and creative projects.
- Students will build and deploy AI-powered chatbots for customer support and other business applications.
- Students will be able to integrate generative AI tools to enhance search capabilities and provide AI-driven recommendations.

## ORGANIZING COMMITTEE

**Principal :- Dr. Geeta Monga**

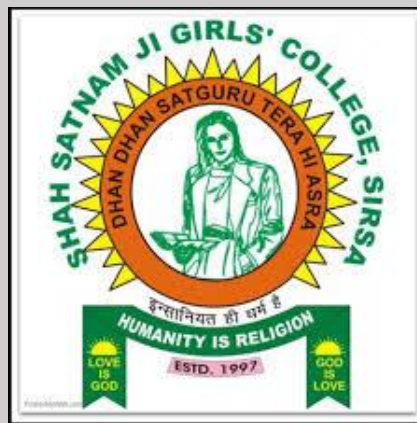
**Assistant Professor :- Ms. Rupa  
Ms. Neha Arora**

# **Syllabus**

- ❖ **Introduction to AI**
- ❖ **History of AI**
- ❖ **Applications**
- ❖ **Advantages & Disadvantages**
- ❖ **AI Tools**
- ❖ **Chat GPT**
- ❖ **Google Gemini**
- ❖ **Microsoft Copilot**
- ❖ **Natural Language Processing**
- ❖ **Applications of NLP**
- ❖ **Expert System**
- ❖ **Applications of Expert System**

**SHAH SATNAM JI GIRLS' COLLEGE,  
SIRSA (HRY.)**

**(CHAUDHARY DEVILAL UNIVERSITY, SIRSA)**



**DEPARTMENT OF COMPUTER SCIENCE  
ORGANIZES**

**CERTIFICATE COURSE**

**IN**

**CYBER SECURITY**

**(30 HOURS)**

**2<sup>ND</sup> SEP.-22<sup>TH</sup> NOV.**

**SESSION: 2024-2025**

## **ABOUT THE COLLEGE**

Shah Satnam Ji Girls' College, Sirsa is a name of synonymous with quality and excellence not only in academics but also in sports, cultural programmes, decorum, social and ecological concerns and spiritual and ethical values. As a centre of excellence in education Shah Satnam Ji Girls' College acts as an oasis in the educational dry region of Haryana. This College was established in 1997 by his holiness 'Saint Gurmeet Ram Rahim Singh Ji Insaan' to promote women education. This College is affiliated to Chaudhary Devlal University, Sirsa. Even Since its inception, it has been striving to inculcate competitive and innovative skills so that students could become creators of a better tomorrow. The students studying here competent enough to carve a niche for themselves in the professional world.

## **DEPARTMENT OF COMPUTER SCIENCE**

Welcome to Department of Computer Science is where the future happens. BCA is a three-year undergraduate degree program that focuses on computer applications and software development. It is a popular choice for students who want to enter the information technology (IT) field. Moreover, the IT industry is one of the fastest-growing industries in India, and there is a high demand for skilled IT professionals. BCA course offers students a comprehensive education in various IT skills, fostering proficiency in programming languages. After completing a BCA course, you can work as a software developer, web developer, system analyst, network administrator, database administrator, or IT project manager.



# COURSE CONTENT

## Application Security



Leverage information applications to thwart attempts to transgress application authorization limits.



## Information Security



Safeguard sensitive organizational data from illegitimate access, disruption, usage, and alteration.



## Network Security



Assess vulnerabilities to safeguard the reliability and usability of organizational data and network.



## Disaster Recovery



Being prepared for cyber threats or timely identification of vulnerabilities to ensure seamless business operations.



## Operational Security



Track essential information and critical assets to eradicate vulnerabilities and ensure robust operations.

## **COURSE OBJECTIVES**

- The course's primary objective is to prepare individuals for self-employment and to foster skilled professionals in the cyber security industry.
- The cyber security course offers a comprehensive range of topics, catering to both newcomers and IT professionals, with opportunities to advance into Network Administration, System Administration, Security Analysis, Security Engineering, Ethical Hacking, Cryptography, Penetration Testing, and other related fields.
- This certification program combines various approaches such as interactive sessions, presentations, hands-on training, real-time projects, and industrial visits to foster creative solutions to security issues and build secure solutions.

## **FLOW OF COURSE**

- Participants have to give their names to Ms. Priynka & Ms. Veena Navjot.
- All the students of B.A 2<sup>nd</sup> year and all P.G 1<sup>st</sup> year must have to participate in this course.
- Practical and Written evaluation system will be adopted to judge the knowledge of the students.
- Certificates will be issued to the students securing at least 60% marks.

## **LEARNING OUTCOMES**

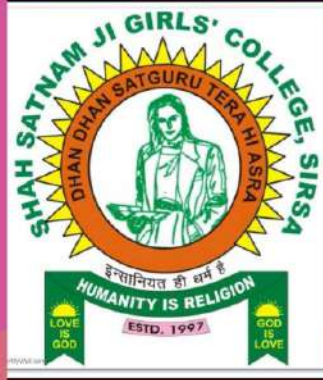
- Examine security perimeters of individuals and organizations to gain an understanding of vulnerabilities, data breaches, and cyber threats.
- Recognize various cyber-attacks and implement cyber security measures.
- Utilize web and network security measures to safeguard organizational infrastructure.
- Employ tools and techniques in cyber security to bolster industry-specific knowledge and skills.
- Analyze issues, devise solutions, and oversee cyber security within the organization.
- Facilitate career opportunities in the realm of cyber security.

## **ORGANIZING COMMITTEE**

**Principal :-** Dr. Geeta Monga

**Assistant Professor :-** Ms. Priynka

Ms. Veena Navjot



# Shah Satnam Ji Girls' College (Sirsa)

Department of English  
Organises  
Certificate Course On  
Language Skills  
(2022-23)

### **About The College**

Shah Satnam Ji Girls' College, Sirsa is providing specialized knowledge and skills that can make graduates and post graduates more competitive in the job market and eligible for higher paying positions with greater responsibility and leadership opportunities along with inculcating moral essence among the students to develop a sense of empathy, resilience, and social awareness that enables them to become responsible and compassionate citizens of the world.

### **Department of English**

The department provides graduate and post graduate programs in English. The central objective these programs is to enrich the students with communication skills in English. The department plays an active role in the co-curricular activities of the college and aims to prepare every student professionally fit for placement programs in every academic year with the vision to foster knowledge and skills in English with an emphasis on 'Literature and Language'.

## Objectives

To make the students confident of speaking in English impeccably

To familiarize the students with different styles of communication

To make the students understand the nuances of language

To train the students to become successful professionals

### Flow of Course :

- Participants have to give their names to Ms. Gurdeep latest by 14 February.
- Selection will be made purely on the basis of First Come, First Serve.
- Oral and Written evaluation system will be adopted to judge the knowledge of the students.
- Certificates will be issued to the students securing at least 60% marks.

## Objectives

To make the students confident of speaking in English impeccably

To familiarize the students with different styles of communication

To make the students understand the nuances of language

To train the students to become successful professionals



## **UNIT FIVE- READING SKILLS**

1- Reading News headlines

2- The students would read the running headlines on the screen/prompter.

3- The students will be asked to recite the poems.

They should be taught the power of vocabulary, importance of word placing, appropriate expressions while reading/reciting and so on.

The groups should be formed and within their groups each student would recite the poem among group members. Their anxiety level to be checked.

## **UNIT SIX -WRITING SKILL**

Story writing, Letter writing, Notice writing, E-Mail writing, Note Making ,Essay writing etc..

Assessment procedure:

The students will narrate a story or review any film that they like. The students have to inform the teacher of their chosen story/film in the previous class itself. The students will be asked to pronounce words properly. Mock interviews, Practice Session and the tutorial are conducted. Assessment/learning progress including achievements in interactions various levels and assessment through surprise activities.

## **Shah Satnam Ji Girls' College, Sirsa**

### **Spoken English Course (30hours)**

#### **COURSE SYLLABUS/CURRICULUM:**

#### **UNIT 1-STORY/VIDEO BASED ACTIVITIES**

1-The task is to go to the nearest vegetable market and write down the names of at least 15 vegetables both in Hindi and English.

Or

Write down the recipe of any cuisine that students know properly in 100-150 words.

2- A video will be shown to students in a short while. Before that, read what the video is all about in Hindi:

Pronunciation of different words will be told in slow motion as well in flow.

3- Students will be given a video listing the common words wrongly pronounced. Students watch the video. Students listen the pronunciation properly and practice these.

#### **UNIT TWO- GROUP INTERACTION AND PERSONAL INTERVIEW**

#### **UNIT THREE- GRAMMAR**

1-What is tense and explanation with examples.

2- Fill in the blanks with appropriate deformity ever.

3- How to Change the verb into the correct form.

4- Active/Passive voice exercise

5- How and when do we use each other flush modal verbs?

#### **UNIT FOUR- PERSONALITY DEVELOPMENT, ETHICAL BEHAVIOR**

**SHAH SATNAMJI GIRLS' COLLEGE**

**SIRSA**



**Department of COMMERCE &  
MANAGEMENT**

**organises**

**Certificate course**

**IN**

**FOOD AND NUTRITION**

**(1<sup>ST</sup> APRIL TO 13<sup>TH</sup> APRIL)**

**(2022-2023)**



## About the College

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## Department of Commerce and Management

Department of Commerce and Management of *SHAH SATNAM JI GIRLS' COLLEGE* offer various courses of UG&PG. Department gives a platform to individual to develop skill and build a successful personality for dealing with dynamic industry. The focus of department is on developing skills among students so that they can face the changes as well as challenges of versatile business environment.



## **Courses content.**

- Food science
- Food adulteration
- Rich diet
- Function of fruits and vegetables
- Meal planning

## **Course Objective**

### **The course will enable the students to:**

1. It will provide all learning about components of nutrition such as fats fibre etc.
2. They will understand public health.
3. Students will be able to identify and apply food principles to food and nutrition system.





## **Flow of Course**

- 1. Participants have to give their names to Ms. Yogita, Ms. Leenu latest by 25<sup>th</sup> March, 2022.**
- 2. Selection will be made purely on the basis of First Come, First Serve**
- 3. Individual performance will be considered for evaluation system.**
- 4. Certificates will be issued to the students securing at least 60% marks.**

## **Learning Outcomes**

### **To enable the students to**

- 1. Improve personal health behaviour.**
- 2. Improve risk factors for weight created health conditions.**
- 3. Apply new knowledge into their healthy eating lifestyle.**

## **Organizing Committee**

**Dr. Geeta Monga**

(Principal)

Ms. Leenu

Ms. Yogita



Shah Satnam Ji Girls' College Sirsa  
Syllabus  
Of  
Food and Nutrition

Unit-1

1. Food science
2. public health
3. Food adulteration
4. Food Preservation
5. practical

Unit-2

6. Skin nutrition
7. Hair therapy
8. Dietary products
9. Functions of
  - cereal products
  - fibers
  - fruits and vegetables

### Unit-3

10. Hygienic handling of food
11. Meal planning
12. Food preparation and services.
13. Human nutrition
14. live class

### Unit- 4

15. Rich diet
16. Fitness needs of individuals
17. Eating disorder on fitness and wellness
18. Impact of daily food choices.



**SHAH SATNAM JI GIRLS' COLLEGE**

**SIRSA**



**DEPARTMENT OF MATHEMATICS ORGANISES**

**CERTIFICATE COURSE**

**ON**

**VEDIC MATHS**

**(2022-2023)**

# Shah Satnam ji Girls College , Sirsa

## Syllabus for VEDIC MATHS

### Unit 1

- Subtractions using ALL FROM NINE LAST FROM TEN
- Viniculum and de-viniculum
- Subtractions using viniculum
- Additions and Subtraction using base method
- Multiplication - all types, some are named below
- Knought Sandwich 9,99.999 and so on
- Multiplication using base method
- General Method of multiplication
- Divisions using base method
- Squares using Base method and Duplex method

### Unit 2

- Addition/subtractions (3D-4Rows,4D-4Rows,2D-5Rows)
- Multiplication General Method (3D x2D,3Dx3D,4Dx 2D,4DX 4D)
- Divisions by flag method(3/2,4/2 4/3)
- Squares(3d and 4d)
- Square root (3d & 4d, and imperfect square)
- Cubes(2d, 3d)
- Cube Root(4d, 5d,6d)
- . Fourth power
- Approximate multiplication
- Ratio and proportion

- Dates and calendars

## Unit 3

- Auxiliary fractions for no, ending with 1 and 9
- Divisibility check for no. ending with 1,3,7 and 9
- Fractional addition/subtraction
- 2d x 2d x 2d Multiplication
- Magical squares
- Pythagoras theorem
- Argumental division
- Factorization
- Remainder Theorem
- Simultaneous linear equations
- Conversion tables

## ***About the College***

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## ***OBJECTIVES-***

- **ENHANCE MATHEMATICAL PROFICIENCY AND PROBLEM-SOLVING SKILLS.**
- **DEVELOP STUDENTS' MATH SPEED AND ACCURACY**
- **DEVELOP STUDENTS' INTEREST IN MATH.**
- **MAKE STUDENTS MORE CONFIDENT IN THE SUBJECT**
- **HELP STUDENTS PERFORM WELL IN EXAMS.**
- **SAVE TIME THAT CAN BE USED TO SOLVE OTHER PROBLEMS.**

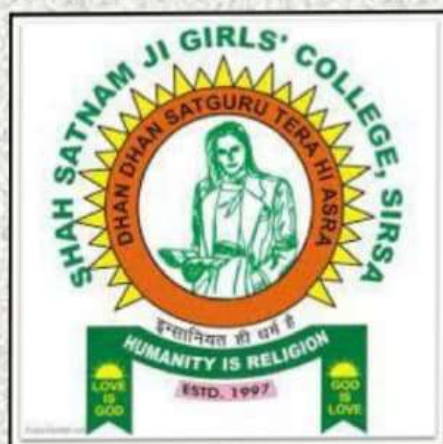
## **FLOW OF COURSE**

- Participants have to give their names to Ms. Pooja latest by 28<sup>th</sup> feb.
- Selection will be made purely on the basis of first come, first serve.
- Oral and written evaluation system will be adopted to judge the Knowledge of the students.
- Certificates will be issued to the students securing at least 60% Marks.



# SHAH SATNAM JI GIRLS' COLLEGE SIRSA

(AFFILIATED TO Ch. Devi Lal University, Sirsa)



Department of Chemistry  
*Organizes*  
**CERTIFICATE COURSE**  
*ON*

**Green Chemistry**  
**(30 Hours)**

**(4th April-20th April)**

**Session: 2021-2022**



## **About the College**

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## **Department of Chemistry**

Department of Chemistry of Shah Satnam Ji Girls' College offers course of Green Chemistry at UG Level, Department gives a platform to educate students with state-of-the-art curriculum and advanced research facilities. The vision of our department is to foster keen interest in the field of Chemistry through dedicated teaching, innovative, instructional methods and commitment in the students. The ultimate aim is to emerge as centre of excellence in chemical sciences in order to cater the needs of the industry and the society at the large.



## Add On Courses

Name of the course- Green chemistry

Time : 30 Hours

### Syllabus for Green Chemistry:

#### Day-1

Introduction to Green Chemistry, Difference between green chemistry and environmental chemistry, General introduction about twelve principles of Green Chemistry.

#### Day-2

Twelve principles of Green Chemistry with their explanation and Special examples: Designing a Green Synthesis using these principles; Prevention of waste/ by-products.

#### Day-3

Atom economy, Calculation of atom economy of the rearrangement, addition, substitution and elimination reactions.

#### Day - 4

Prevention /minimization of hazards /toxic products reducing toxicity risk, Green Solvents - super critical fluids, water as a solvent for organic reactions,

#### Day-5

Ionic liquids, PEG, solvent less processes, immobilized solvents and how to compare greenness of solvents

*Handwritten signatures:*  
Raj  
Kanta  
Mait  
A. R.  
Green

## Day -6

Energy requirements for reactions- alternative sources of energy: use of microwave and ultrasonic energy

## Day-7

Selection of starting materials; avoidance of unnecessary derivatization- careful use of use of blocking/protecting groups

## Day-8

Use of catalytic reagents in preference to stoichiometric reagents; catalysis and green chemistry, comparison of homogeneous and heterogeneous catalysis, bio catalysis, asymmetric catalysis and photo catalysis

## Day - 9

Prevention of chemical accidents designing greener process, Development of analytical techniques to prevent and minimize the generation of hazardous substances in chemical processes

## Day -10

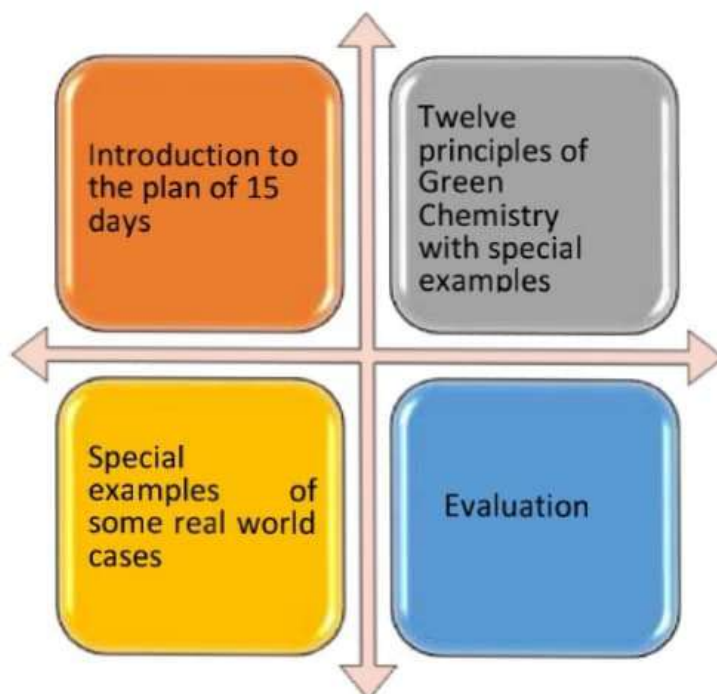
Examples of green Synthesis/ Reactions and some real world cases- Healthier fats and oil by green chemistry:

## Day-11

Enzymatic Inter esterification for production of no Trans -Fats and Oils

*Re Mark Green*  
*Kanta*  
*Amr*

## Course Content



## Course Objectives

**Application of innovative scientific solutions to real world environmental problems**

**Reduction of the negative impacts of chemical products and the processes on human health and the environment**

**Design safer chemical products and the processes that reduce or eliminate the use and generation of hazardous substances**



## Flow of Course

- 1- Participants have to give their names to Ms. Shifali latest by 25<sup>th</sup> March, 2021.
- 2- Selection will be made purely on the basis of First Come, First Serve.
- 3- Oral and written evaluation system will be adopted to judge the knowledge of the students.
- 4- Certificates will be issued to the students securing at least 60% marks.

## Learning Outcomes

To enable the students to

1. Develop as independent thinkers who are responsible for their own learning.
2. Develop transferable quantitative skills.
3. Be able to work with other demonstrating leadership and collaborative skills.
4. Demonstrate a comprehensive understanding of the theory and practice of instrumentation.

### Organizing Committee

*Shifali*  
Ms. Shifali

Organiser

*Payal*  
Ms. Payal

H.O.D.

*Geeta Monga*  
Dr. Geeta Monga

Principal  
Shri. Pathan Ji Girls College  
Sirsa