



SGT UNIVERSITY

VALUE ADDED COURSES



**SGT College of Pharmacy
2024-25**



About the University

SGT University, established in 2013 and recognized by the University Grants Commission (UGC), has set its sights on fostering a culture of research, innovation, and interdisciplinary education. Nestled on a sprawling 70-acre campus on the outskirts of Gurgaon, the university boasts state-of-the-art resources and infrastructure designed to facilitate cutting-edge academic and research achievements.

Driven by a relentless pursuit of excellence, SGT University has earned the prestigious NAAC A+ accreditation, becoming one of the youngest institutions in the country to receive this honour. This recognition highlights the university's commitment to maintaining high standards in education and research.

Among its broad array of academic programs, the university offers premier medical courses through the SGT Medical College, Hospital & Research Institute, which are considered among the best in the nation. These programs are seamlessly integrated with practical training and research opportunities, ensuring that students receive a comprehensive, world-class education in the medical field.

Our Vision

To nurture individual's excellence through value based, cross-cultural, integrated and holistic education adopting the contemporary and advanced means blended with ethical values to contribute in building a peaceful and sustainable global civilization.

Our Mission

- To impart higher education at par with global standards that meets the changing needs of the society
- To provide access to quality education and to improve quality of life, both at individual and community levels with advancing knowledge in all fields through innovations and ethical research.
- To actively engage with and promote growth and welfare of the surrounding community through suitable extension and outreach activities
- To develop socially responsible citizens, fostering ethical values and compassion through participation in community engagement, extension and promotion activities.
- To create competitive and coordinated environment wherein the individual develops skills and a lifelong learning attitude to excel in their endeavours.

INDEX

| S.N. | Course Name | Course Code | Contact Hours | Year | Page No |
|------|----------------------------|----------------|---------------|---------|---------|
| 1 | Rational use of medicines | VAC/SGTCOP/005 | 30 | 2024-25 | 6 |
| 2 | Impact of Chemical Hazards | VAC/SGTCOP/006 | 30 | 2024-25 | 7 |
| 3 | Antimicrobial resistance | VAC/SGTCOP/007 | 30 | 2024-25 | 8 |

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INTRODUCTION

In the dynamic and ever-changing global landscape, the need for lateral thinking, innovation, and entrepreneurial spirit has never been greater. Traditional educational approaches that focus solely on specific skill sets often become outdated due to the rapid pace of technological advancements. As such, no university curriculum can comprehensively address all areas of importance or relevance. To ensure that students are better equipped to meet industry demands, it is crucial for higher education institutions to supplement the core curriculum, helping students develop both their aptitudes and interests.

Objectives:

The primary objectives of the Value-Added Course (VAC) are:

1. **To enhance industry understanding:** Equip students with knowledge of industry expectations and requirements.
2. **To improve employability:** Enhance students' employability skills, making them more competitive in the job market.
3. **To bridge skill gaps:** Address existing gaps in skills and ensure students are industry ready.
4. **To foster inter-disciplinary skills:** Provide students with opportunities to develop diverse skills across various disciplines.
5. **To encourage entrepreneurship:** Inspire students to become job creators rather than just job seekers.

Course Design

Departments designing Value-Added Courses should begin by conducting a **Training Need Analysis** and engaging with industry experts, alumni, and employers to identify skill gaps and emerging trends. This will guide the creation of a syllabus tailored to current demands.

Conduction of Value-Added Courses

- **Voluntary Participation:** VAC is not a mandatory requirement for completing any academic program, and the credits earned through these courses are additional to the degree's total credit requirement.
- **Learning Format:** VAC is an instructor-supported learning course, available to all students without any additional fee. Classes are typically scheduled during reserved time slots, beyond regular class hours, and may also be conducted on weekends or during vacations.
- **Course Registration:** Students may register for only one Value-Added Course per semester, preferably offered by their own department. However, with prior permission from the Dean, they can take courses from other departments.



- **Minimum Participants:** A minimum of 5 students must opt for a course for it to be offered.
- **Industry and Expert Involvement:** Eminent industry professionals or academicians may conduct VACs. This broadens students' exposure and enhances the learning experience.

Course Duration and Structure

- **Duration:** Each Value-Added Course should last at least 30 hours, with a balanced structure of 18 hours (60%) theory and 12 hours (40%) practical. The exact division of theory and practical hours will be determined by the course instructor with the approval of the Dean.
- **Location:** The courses will be conducted within the respective schools, with classrooms assigned by the Dean based on student numbers.

REGISTRATION PROCEDURE

1. **Course Listings:** A list of available Value-Added Courses, along with syllabi, will be posted on the university website.
2. **Registration Process:** Students must complete and submit a registration form to enroll in a course. The Department Head will group students based on their choices and send them to the Dean for final approval.
3. **Attendance and Assessment Records:** The course instructor is responsible for maintaining attendance and assessment records, including details on assignments, seminars, and other activities. These records must be signed by both the course instructor and the Department Head and kept for future reference.
4. **Attendance Requirements:** Students must maintain at least 75% attendance in the Value-Added Course to be eligible for a certificate. Up to a 10% relaxation in attendance may be granted for valid reasons, such as illness or extracurricular participation.

Certification

Upon successfully completing a Value-Added Course, students will be awarded a **certificate** signed by the authorized university signatories, recognizing their accomplishment in the course.

Rational use of medicines



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Course Code: VAC/SGTCOP/005

COURSE OBJECTIVES:

- To describe process of prescribing.
- To describe irrationalities in prescribing.
- To describe the effect of irrational use of medicines on patients' health.

COURSE OUTCOMES:

- The students will be able to know about rational and irrational use of medicines.
- The students will be able to understand the various prescriber and patients related factors that are responsible for irrational use of medicines.

COURSE CONTENT:

Module I: Fundamentals of Prescribing medicine to patients.

Module II: Factors influencing the prescribing of medicine.

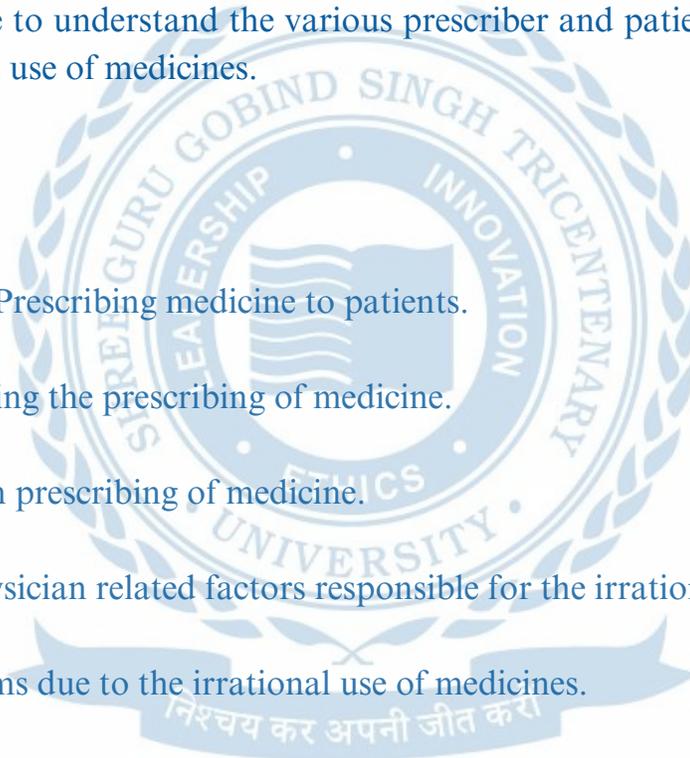
Module III: Irrationalities in prescribing of medicine.

Module IV: Patients and physician related factors responsible for the irrational use of medicine

Module V: Common problems due to the irrational use of medicines.

Module VI: Overuse vs. Misuse of medicines

Module VII: Case studies on irrational use of medicines.



Impact of Chemical Hazards



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Course Code: VAC/SGTCOP/006

COURSE OBJECTIVES:

- To describe impact of chemical hazards
- To describe the methods for the prevention of chemical toxicity

COURSE OUTCOMES:

- The students will be able to know about the hazards due to chemical exposure.
- The students will be able to know about the methods to prevent the chemical toxicity.

COURSE CONTENT:

Module I:

Basics of Toxicology and chemical exposure and entry mechanism in the body.

Module II:

Chemical exposure and reactions

Module III:

Prevention of chemical toxicity: Physical and pharmacotherapeutic treatments to combat the chemical toxicity.



Course Code: VAC/SGTCOP/007

COURSE OBJECTIVES:

- To describe the use of various types of antimicrobials.
- To describe the antimicrobial resistance and the mechanism through which it occurs.
- To describe the impact of the AMR on the progress of pathology to advance stages.
- To describe the impact of the AMR on the economy and health of patients.

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COURSE OUTCOMES:

- The students will be able to know about the AMR and underlying mechanism in AMR
- The students will be able to know about the hazards of AMR.
- The students will be able to know about the prevention and combating AMR in general measures.

COURSE CONTENT:

Module I:

- Microbes: Bacteria, Fungi, Virus, etc.
- Antimicrobials: Pharmacology of Various Antimicrobials used to treat various infections caused by the microbes.

Module II:

- Anti-microbial Resistance: Types or mechanisms; hazards and prevention
- Case studies on AMR.
- Factors responsible for the development of AMR

Module III:

- Impact of antimicrobial resistance:
- Patient related issues, worsening of pathologies; failure of pharmacotherapy, shifting from one pharmacotherapeutic agent to other upon failure.

Module IV:

- Institutional Review Board/Independent Ethics Committee/Ethics Committee – composition, roles, responsibilities, review and approval process and ongoing monitoring of safety data.