



Sophia College for Women (Empowered Autonomous)

Post Graduate Diploma in 'Quality Assurance in the Foods, Pharmaceuticals & Allied Industries'

Course: Post Graduate Diploma in 'Quality Assurance in the Foods, Pharmaceuticals & Allied Industries'.

Course objectives:

Started with the prime objective of training Science graduates as Quality Professionals, the course seeks to bridge the gap between academia and industry. Students are exposed to the various aspects of 'Quality' as applied to Foods, Pharmaceuticals and Allied Industries enhancing their career prospects.

Course outcome:

Students completing the course develop a sensitivity to 'Quality' and 'Integrity' in every aspect of their work and professional conduct. They acquire the soft-skills required to function successfully in Industry and are able to apply 'Quality' concepts in any Food, Pharmaceutical or allied Industry. They are ready to start their journeys in various 'Quality' related careers.

This one and a half years full-time course comprises four terms. The program content includes:

1. **QA component:** Quality concepts, Role of Quality and its interfaces in an organization, Management System Standards, Quality audits, Ethics of Quality.
2. **Analytical methods:** Instrumental, Statistical.
3. **Foods component:** Food science - Analysis of foods, Basics of food technology, Sensory evaluation, Packaging, Laws and regulations, Regulatory affairs, Quality in 'Food and Allied Industries.'
4. **Pharmaceuticals component:** Introduction to Human Anatomy and Physiology, Classes of drugs, Pharmacopoeia, Basics of Pharmaceutics, Bioequivalence and Bioavailability studies, Chemical and Microbiological analysis, Packaging, FDA regulations, Quality in 'Pharmaceutical and Allied Industries.'
5. **Regulatory affairs in Medical Devices**
6. **Intellectual Property Rights**
7. **Basics of Management Studies.**
8. **Essentials of Information and Communications Technology.**

9. Emerging thrust areas in the Foods, Pharmaceuticals and Allied Industries

10. Development of soft skills.

11. Industry exposure

- Visits to Industry, both local and outstation to various Foods, Pharmaceuticals and Allied industries.
- Training in Public Testing Laboratories and in-plant training of two months each in a Foods and Pharmaceuticals/ Allied Industry

Note: The curriculum is subject to change based on latest trends in Industry.

Paper Code	Paper Title	Marks
First Term - Quality		
Paper I PGDSQA101	Management Systems Standards	100
Paper II PGDSQA102	Quality Concepts, Audits and Statistics	100
Paper III PGDSQA103	Instrumentation & Basics of Microbiology	100
Paper IV PGDSQA104	Skill Enhancement 1	50
Practical (Paper I, II and III) PGDSQAP1	Laboratory Practices 1	50
Four weeks training in Public Testing Laboratories		
Second Term - Quality in Food Industries		
Paper I PGDSQA201	Food Technology	100
Paper II PGDSQA202	Food Quality, Packaging, Laws and Regulations	100
Paper III PGDSQA203	Food - Nutrients, Additives, Preservation and Adulteration	100
Paper IV PGDSQA204	Skill Enhancement 2	50
Practical (Paper I, II and III) PGDSQAP2	Laboratory Practices 2	50
Outstation Industrial Visit		

Third Term – Quality in Pharmaceutical / Allied Industries		
Paper I PGDSQA301	Basics of Pharmaceutics	100
Paper II PGDSQA302	Key Concepts and Quality in the Fields of Pharmaceutical and Allied Industries	100
Paper III PGDSQA303	Theoretical Basis of Pharmaceutical and Allied Industries	100
Paper IV PGDSQA304	Skill Enhancement 3	50
Practical (Paper I, II and III) PGDSQAP3	Pharmacopoeia and Laboratory Practices 3	50
Fourth Term - Internships		
Food Industry Training - Two months		
Pharma / Allied Industry Training - Two months		

The curriculum is updated regularly to meet the changing needs of Industry.