



### **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 course content includes:

- Quality Assurance (QA): Quality concepts, Role of Quality and its interfaces in an organization, Management System Standards, QA in industry, Quality audits, Ethics of Quality.
- Analytical methods: Instrumental, Statistical.
- Foods Industries: Food science - Analysis of foods, Basics of food technology, Sensory evaluation, Packaging, Laws and regulations, Quality in 'Food and Allied Industries.'
- Pharmaceuticals / Allied Industries: 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.'
- Regulatory affairs including in Medical Devices
- Intellectual Property Rights
- Emerging thrust areas in the Foods, Pharmaceuticals and Allied Industries
- Skill Enhancement: Basics of Management Studies, Essentials of Information and Communication Technology, Development of soft skills.
- Industry exposure
  - Visits to Industry, both local and outstation to various Foods, Pharmaceuticals and Allied industries.
  - Training in Public Testing Laboratories for four weeks.
  - In-plant training of two months each in a Foods and Pharmaceuticals/ Allied Industry.

<b>Term I - Quality Assurance</b>		
<b>Paper Code</b>	<b>Paper Title</b>	<b>Marks</b>
Paper I PGDSQA101	Management Systems Standards	<b>100</b>
Paper II PGDSQA102	Quality Concepts, Audits and Statistics	<b>100</b>
Paper III PGDSQA103	Instrumentation & Basics of Microbiology	<b>100</b>
Paper IV (Paper I, II and III) PGDSQAP1	Laboratory Practices (including practical) 1	<b>Grade</b>
<b>Four weeks training in Public Testing Laboratories</b>		
<b>Term II - Foods Industries</b>		
<b>Paper Code</b>	<b>Paper Title</b>	<b>Marks</b>
Paper I PGDSQA201	Food Technology	<b>100</b>
Paper II PGDSQA202	Food Quality, Packaging, Laws and Regulations	<b>100</b>
Paper III PGDSQA203	Food - Nutrients, Additives, Preservation and Adulteration	<b>100</b>
Paper IV (Paper I, II and III) PGDSQAP1	Laboratory Practices (including regular practicals) 2	<b>Grade</b>
<b>Outstation Industrial Visit</b>		
<b>Term III - Pharmaceuticals / Allied Industries</b>		
<b>Paper Code</b>	<b>Paper Title</b>	<b>Marks</b>
Paper I PGDSQA301	Basics of Pharmaceutics	<b>100</b>
Paper II PGDSQA302	Key Concepts and Quality in the Fields of Pharmaceutical and Allied Industries	<b>100</b>
Paper III PGDSQA303	Theoretical Basis of Pharmaceutical and Allied Industries	<b>100</b>
Paper IV (Paper I, II and III) PGDSQAP1	Laboratory Practices (including regular practical) 3	<b>Grade</b>
<b>Term IV - Internships</b>		
Food Industry	Two months	<b>Graded by host Industry</b>
Pharmaceutical / Allied Industry	Two months	<b>Graded by host Industry</b>
Skill Enhancement	Term I, II, III and IV	<b>Grade</b>

**Note:** The curriculum is subject to revision based on changing needs of Industry.