

**Short Term Certificate Course**  
**Modern Concepts in Pharmaceutical and Chemical Industries**  
**Schedule 2017**  
**May 27<sup>th</sup> – June 6<sup>th</sup>**

<b>May 27<sup>th</sup> (SAT)</b>	<b>May 29<sup>th</sup> (MON)</b>
<p><b>Lecture 1:</b> Natural Products Introduction and Classification ,Natural Products Isolation and Purification techniques (10.30-11.30hrs)  <i>Speaker: Prof. Sujata Bhat</i></p> <p><b>Lecture 2:</b> Development of natural molecule as drug case study 1 (11.30-12.30 hrs)  <i>Speaker: Prof. Sujata Bhat</i></p>	<p><b>Lecture 3:</b> Pharmaceutical Industry: Introduction (10.30-11.30 hrs)  <i>Speaker: Prof. Sujata Bhat</i></p> <p><b>Lecture 4:</b> Pharmaceutical Industry: Global Scenario and employment opportunities (11.30-12.30 hrs)  <i>Speaker: Mr.Madhav Kurdekar (Ex. Executive director, Geltec Pvt Ltd, and GSK, India &amp; Singapore)</i></p> <p><b>Practical 1:</b> Plant Extraction Techniques to obtain perfumery molecules (2-4 PM)  <i>Instructor: Mr. Sukesh Sinha</i></p>
<p style="text-align: center;"><b>May 30<sup>th</sup> (TUE)</b></p> <p><b>Lecture 5:</b> Medicinal Chemistry (10.30-11.30 hrs)  <b>Lecture 6:</b> Certified Organic Cosmetic Ingredients (11.30-12.30 hrs)  <i>Invited speaker: Mr Nikunj Harlalka, Director, C. J. Herbals</i></p> <p><b>Practical 2:</b> Thin Layer Chromatography Techniques and Visualization (2-4 PM)  <i>Instructor: Mr.Mangesh Sonawane</i></p>	<p style="text-align: center;"><b>May 31<sup>th</sup> (WED)</b></p> <p><b>Lecture 7:</b> Drug discovery Introduction (10.30-11.30 hrs)  <i>Speaker: Prof. Sujata Bhat</i></p> <p><b>Lecture 8:</b> Applications of UV and IR (11.30-12.30 hrs)  <i>Speaker : Prof. Sujata Bhat</i></p> <p><b>Practical 3 :</b> UV/IR (2-4 PM )  <i>Ms Manisha Gupta</i></p>
<p style="text-align: center;"><b>June 1<sup>st</sup>(THU)</b></p> <p><b>Lecture 9:</b> INNOVATIONS(10.30-11.30 hrs)  <i>Invited Speaker: Mr. Venktesh Ganeshan, Sr. Manager, KEVA fragrances, Pvt. Ltd.</i></p>	<p style="text-align: center;"><b>June 2<sup>nd</sup> (FRI)</b></p> <p><b>Lecture 11:</b> Quality control and Quality Assurance in Chemical industry (10.30-11.30hrs)  <i>Invited Speaker: Dr. Prasad Kanitkar Director, Plant operation Pfizer Ltd.</i></p>

<p><b>Lecture 10:</b> Applications of NMR (11.30-12.30 hrs) – Prof. Sujata Bhat</p> <p><b>Practical 4:</b> Extraction techniques and Column chromatography (2-4 PM)</p> <p><i>Instructors: Mr.Mangesh Sonawane Ms Manisha Gupta</i></p>	<p><b>Practical 5:</b> Various distillation techniques (2-4 PM)</p> <p><i>Instructors: Mr.Mangesh Sonawane Ms Manisha Gupta</i></p>
<p style="text-align: center;"><b>June 3<sup>rd</sup> (SAT)</b></p> <p><b>Lecture 12</b> 3rd Generation R&amp;D Management in Chemical Industries, (10.30-11.30 hrs) <i>Invited Speaker: Dr. Surendra Bhatia Director, Sapec Agro India</i></p> <hr/> <p><b>Lecture 13:</b> Applications of Agrochemicals (11.30-12.30 hrs) Speaker : Dr. Bhupesh Sawant(<i>Research and development, Agri Input, Godrej Agrovvet, Mumbai</i>)</p> <p><b>Practical 6:</b> Gas Chromatography and HPLC <i>Ms Manisha Gupta and Mangesh Sonawane</i></p>	<p style="text-align: center;"><b>June 4<sup>th</sup> (SUN)</b></p> <p><b>Problems Solving</b> (10.30- 12 hrs)</p> <p><i>Prof. Sujata V. Bhat Mr. Mangesh Sonawane</i></p>
<p style="text-align: center;"><b>June 5<sup>th</sup> (MON)</b></p> <p><b>Lecture 14:</b> Introduction to cosmetology and perfumery (10.30 -12.30 hrs)</p> <p><i>Invited Speaker: Invited speaker Dr.Harlalka (Director, Nishant Aromas)</i></p> <p><b>Practical 7:</b> Demonstration of various perfumery molecules by invited speaker</p> <p><b>Industrial Research and Development Centre Visit</b> (2-4.30 PM)</p>	<p style="text-align: center;"><b>June 6<sup>th</sup> (TUE)</b></p> <p><b>Lecture 15:</b> Entrepreneurship (10.30- 11.30 hrs.) <i>Speaker: Principal B. B. Sharma,</i></p> <p><b>Comprehension and Valedictory</b> (11.30-12.30 hrs)</p>

