

Objectives and Course Content of Short Term Courses

O. Plan No.	ICT-33
Name of Course	Tools for Scientific Research in Engineering and Science (Through ICT)
Objectives	<p>This training programme specially designed for Engineering College and Polytechnic Teachers will mainly deal with the tools for engineering research. The course aims to achieve the following objectives:</p> <p>(i) To update the knowledge in the emerging and upcoming topics of research and introduce them to various tools that can help the researches to improve their research and problem solving skills.</p> <p>(ii) To make the teachers aware of the various research techniques in Engineering.</p>
Course Contents	<p>The programme will be designed around the following major topics:</p> <ul style="list-style-type: none"> - Ethics in Scientific Research - Design of Experiments - Data processing and Statistical Analysis - Technical Writing, Mendeley and LaTeX software. - Introduction to MATLAB/ SIMULINK for modeling research problems. - Hardware validation for MATLAB/ SIMULINK models using Arduino, dSpace and opal-RT.
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