Aim

It is a foundation course and aims to familiarize students with various aspects of conservation.

Course outcomes

<table>
<thead>
<tr>
<th>Module</th>
<th>Learning outcomes</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Students will get an overview of the challenges faced in preservation, Introduction to various terminologies in conservation science, dyes commonly used in old paintings</td>
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<tr>
<td>2</td>
<td>Students will learn about different types of materials used in conservation</td>
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<tr>
<td>3</td>
<td>Students will gain thorough knowledge regarding analytical methods used in characterization of artefacts</td>
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<tr>
<td>4</td>
<td>Students will gain thorough knowledge regarding preventive conservation methodologies</td>
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<tr>
<td>5</td>
<td>Students will learn about different types of palm leaves used for preservation and their preparatory techniques</td>
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</tbody>
</table>

Mode of transaction – Lecture sessions, Assignments, Presentations

Course outline

Module 1: Conservation Science

Module 2: Materials in Conservation


Module 3: Analytical methods of identification and characterization.

Scientific principles behind SEM. TEM, ETEM, STEM, SPL, SIMS, PES (UPES &XPES) XRD, SEM -EDX, X - ray Fluorescence spectroscopy, FESEM, PL spectroscopy, AFM, Optical lithography, BET surface analysis.

Module 4: Technical aspects of Conservation

Scientific principles behind preventive conservation. Indigenous materials for preventive conservation: Deterioration, Factors affecting deterioration and their control measures. The theory of surface cleaning, solvent action and varnish removal is covered in lectures and demonstrated in the studio. Recent developments and practical approaches in the cleaning of paintings are discussed including cleaning controversies. Approaches to the visual re-integration of paintings and retouching are presented and reinforced through activities and studio work.

Module 5: Conservation of Palm leaf


Reference

2. Corrado Pedeli, Stefano Pulgo translated by Erik Risser, Conservation practices on Archeological excavations, principles and methods.

