



**UNIVERSIDADE FEDERAL DE SÃO CARLOS**  
**PRÓ – REITORIA DE PÓS-GRADUAÇÃO**

**COURSE DESCRIPTION SHEET**



1. Course Name: **Modern Materials and Applications**
2. Course Code: 005
3. Semester offered: 2<sup>nd</sup>
4. Total course credits: 5
5. Course workload
  - 5.1. Lecture classes: 45h
  - 5.2. Practical classes:
  - 5.3. Seminars: 30h
6. Course Syllabus:
  - Presentation of invited lectures on research in the field of Materials Science involving new materials and applications.
  - Presentation of student seminars, related to their research projects, with a focus on project challenges and associated applications.
7. Main Bibliography:
  - Scientific articles, books in the field of Materials Science
  - James Newell. Essentials of Modern Materials Science and Engineering, 2009, John Wiley & Sons