1. Course Code: IT546
2. Title: Multimedia Security & Forensics
3. Instructors: Dr. Priyanka Singh
4. Credit Structure (L-T-P-Cr): 3-0-0-3
5. Slot: Semester II (MTech)
6. Category: Elective
7. Prerequisites:
   • Programming
8. Abstract Content:
   • The course aims to introduce an overview of the major problems and recent developments in the field of multimedia security & forensics. Manipulation of digital assets is possible in ways that were unimaginable ten years ago. Tampered digital media can have great financial, legal, political and social impact. Effective forensic tools to authenticate digital media and detect tampering operations. It is a fascinating field with rapid developments. In this course, we will cover the two most important areas i.e., multimedia security and forensics. We will discuss relevant aspects: multimedia data authentication, digital image forensics, anti-forensics, video surveillance techniques as well as a myriad of interesting research topics.
9. Suggested textbook:
   ‘Photo Forensics’, by Hany Farid, MIT Press.
10. Grading policy:
    Grading will be on the basis of absolute performance, and NO a-priori distribution into slots for relative grading. Exact numbers will be specified in due course.
11. Evaluation Scheme:

There will be no mid-sem and end-sem. The evaluation will be based on the projects. Students are expected to read and discuss research articles published in top conferences and journals. The final grade is composed as following:

- 20% paper review
- 30% project proposal
- 50% project presentation and progress

- You will learn both fundamentals as well as cutting-edge developments in this field.
- Student projects of this class will have a potential to turn into conference and journal publications.

12. Content Delivery:
Virtual classroom discussions using e-meeting/conferencing/training platforms supported by the Institute and course resource and class-test management using suitable LMS.