

## Overview

<b>Programme Code</b>	36596
<b>Programme Title</b>	Audio and Video Forensics
<b>Awarding Institution</b>	Liverpool John Moores University
<b>Programme Type</b>	Masters
<b>Language of Programme</b>	All LJMU programmes are delivered and assessed in English
<b>Programme Leader</b>	Colin Robinson
<b>Link Tutor(s)</b>	

## Awards

Award Type	Award Description	Award Learning Outcomes
Target Award	Master of Science - MS	See Learning Outcomes Below
Recruitable Target	Postgraduate Diploma - PD	See Learning Outcomes Below
Recruitable Target	Postgraduate Certificate - PC	See Learning Outcomes Below
Alternative Exit	Postgraduate Diploma - PD	Demonstrate comprehensive knowledge and critical awareness of essential facts, concepts, theories and principles of audio and video forensics, and their underpinning science and mathematics. They must have an appreciation of the wider multidisciplinary context and its underlying principles. Account for the social and ethical limitations & risks, and the legal considerations affecting the exercise of their judgement. Use fundamental knowledge to investigate new and emerging technologies and synthesize solutions to audio and video forensics problems. Demonstrate an awareness of the limitations of current knowledge and the changing nature of technologies and society, and the need to gain new knowledge through further study and project work in the field of audio and video forensics Critically evaluate and select the most appropriate research methodologies for the solution of problems in a timely and robust manner. Apply appropriate analytical techniques to a range of subject-specific problems and demonstrate the ability to apply appropriate strategies in the deployment of analysis tools to solve practical problems. Communicate effectively in a legally informed professional manner by means of written and spoken technical English. Generate and synthesize evidence required in the solution of complex audio and video forensics problems.

### Alternate Award Names

## External Benchmarks

### Subject Benchmark Statement

## Programme Offering(s)

Mode of Study, Mode of Delivery	Intake Month	Teaching Institution	Programme Length
Part-Time, Face to Face	January	LJMU Taught	27 Months
Part-Time, Face to Face	September	LJMU Taught	27 Months

## Aims and Outcomes

### Educational Aims of the Programme

To explore future developments in Audio and video Forensics. To develop advanced analytical and procedural skills that will allow the successful post-graduate to design suitable methodologies and provide them with the skills to critically analyse existing approaches, their functionality and expected performance. To develop and provide opportunities for practicing communication skills commensurate with the achievement of a post-graduate qualification and the duties associated with the status of an accredited practitioner. To develop enhanced transferable skills and professional behavioural traits that will allow post-graduates to hold responsible technical and managerial roles involving Forensic Audio and video activities. To provide students with a well-developed academic base that provides for further learning, research, personal and professional development. To develop an ability to conduct scholarly activity and undertake self-driven research/project work and to deliver high quality results, providing the required skill set should students decide to undertake further academic study.

### Learning Outcomes

Code	Description
PLO1	Demonstrate comprehensive knowledge and critical awareness of essential facts, concepts, theories, and principles in the areas of CCTV, video and audio forensics.
PLO2	Work on an independent project that will add to the existing knowledge in an area related to the audio and video forensics.
PLO3	Propose methodologies to extend the efficacy of existing processes to achieve improvement in operational effectiveness and provide opportunities to extend knowledge transfer.
PLO4	Account for the potential ethical limitations and risks, as well as legal considerations affecting the exercise of their judgement.
PLO5	Use fundamental knowledge to apply appropriate modern technologies and synthesize solutions to CCTV, video and audio forensics problems.
PLO6	Demonstrate an awareness of the limitations of current knowledge and the changing nature of technologies, recognizing the need to gain new knowledge through further study in the field of audio and video forensics.
PLO7	Critically evaluate processes to identify and make improvements by using problem-solving skills and appropriate software and hardware.
PLO8	Critically evaluate, select and apply the most appropriate analytical techniques for the solution of problems in a timely and robust manner.
PLO9	Instigate, plan and manage projects, taking into account and adhering to associated regulations, legal guidelines and operational requirements.
PLO10	Communicate effectively in a legally informed professional manner by means of written and spoken technical English.
PLO11	Generate and synthesize evidence required in the solution of complex audio, CCTV and video forensics problems.

## Programme Structure

### Programme Structure Description

The Research Skills module (7114AMP) must be passed prior to submission of the dissertation (7100AMP). To qualify for the award of a PG Dip students are required to successfully complete and obtain 120 credits not including 7100AMP. To qualify for the award of a PG Cert students are required to successfully complete and obtain 60 credits not including 7100AMP.

Programme Structure - 180 credit points	
Level 7 - 180 credit points	
Level 7 Core - 180 credit points	CORE
[MODULE] 7100AMP MSc Dissertation Approved 2022.01 - 60 credit points	
[MODULE] 7110AMP Audio Forensics Approved 2022.01 - 20 credit points	
[MODULE] 7111AMP CCTV and Video Forensics Approved 2022.01 - 20 credit points	
[MODULE] 7112AMP Forensic Standards, Regulations and Procedures Approved 2022.01 - 10 credit points	
[MODULE] 7113AMP Media Formats Approved 2022.01 - 10 credit points	
[MODULE] 7114AMP Research Skills Approved 2022.03 - 10 credit points	
[MODULE] 7115AMP Advanced Audio Forensics Approved 2022.03 - 20 credit points	
[MODULE] 7116AMP Advanced Video Forensics Approved 2022.01 - 20 credit points	
[MODULE] 7117AMP Artificial Intelligence, Deepfakes and the Future Approved 2022.01 - 10 credit points	
Level 7 Optional - No credit points	OPTIONAL

Module specifications may be accessed at <https://proformas.ljmu.ac.uk/Default.aspx>

## Teaching, Learning and Assessment

Acquisition of knowledge is achieved mainly through lectures and directed student-centred learning. Student-centred learning is used where appropriate resource material is available. Understanding is reinforced through demonstrations, practical work and case-studies. Testing of the knowledge base is through assessed coursework in the form of case-study reports and coursework assignment submissions. Intellectual skills are developed through case-studies and coursework assignments. Open-ended practical and project work is designed to permit students to demonstrate achievement of all the learning outcomes in this category. Analysis, problem-solving and peer review skills are assessed through assessed coursework in the form of case-study reports and/or coursework assignment submissions. Subject practical skills are developed in a coordinated manner throughout the programme. Practical skills are assessed through case-study coursework reports, individual projects and research reports Transferable skills permeate every activity within the programme content and assessment.

## Opportunities for work related learning

Throughout the programme, emphasis is focused on the acquisition of new knowledge and skills that would secure future employment within the areas of audio and/or video forensics using a range of techniques, such as case studies, to deliver work-related information. Case studies and examples from industry and research are used wherever appropriate to ensure relevant contextualization of the taught material.

## Entry Requirements

Type	Description
Alternative qualifications considered	<p>The normal requirements for entry to the award Programme are as follows: 1. A Class 2.2 honours degree or above in Audio and/or Video Production, Audio and/or Video Technology, Media Technology, or a related audio/video discipline, or 2. A Class 2.2 honours degree or above in an Electronic Engineering subject area, or 3. A Class 2.2 honours degree or above in Forensic Science, or Mathematics or a physical science, together with experience in a relevant field, or 4. A degree with industrial experience or relevant postgraduate experience, or 5. Other qualifications or experience deemed to be equivalent to the above. In particular, mature students must provide evidence of adequate educational and/or industrial experience to assure a reasonable chance of success on the award programme. All applicants must provide evidence of competence in English. The level of English language required should be equivalent to 6.0 for IELTS within the previous 24 months. Applicants who have studied and successfully achieved a UK Degree within the previous 24 months are exempt from the requirements to produce evidence of competence in English. The Department actively supports the University Equal Opportunities policy and strategy in its underlying philosophy to value and respect individuals, and its commitment to maximize the potential of each student. The Department is committed to complying with all relevant legislation. Applications from students with disabilities are positively welcomed. Applications are considered on the basis of academic criteria alone. Students are invited to contact the Equal Opportunities Unit for an information pack detailing the facilities, support available and physical access to the main University buildings. Students may also visit the University to discuss support strategies with the University Disability Welfare Advisor.</p>

### Extra Entry Requirements