Programme Specification Document

Approved, 2022.03

Overview

Programme Code	36335
Programme Title	Audio Forensics and Restoration
Awarding Institution	Liverpool John Moores University
Programme Type	Masters
Language of Programme	All LJMU programmes are delivered and assessed in English
Programme Leader	Colin Robinson
Link Tutor(s)	

Awards

Award Type	Award Description	Award Learning Outcomes
Target Award	Master of Science - MS	See Learning Outcomes Below
Alternative Exit	Postgraduate Certificate - PC	Demonstrate comprehensive knowledge and critical awareness of essential facts, concepts, theories and principles of Audio Forensics and Restoration, and its underpinning science and mathematics. They must have an appreciation of the wider multidisciplinary context and its underlying principles. Account for the social, environmental, ethical, economic, limitations & risks, legal and commercial considerations affecting the exercise of their judgement, related disciplines, and an appreciation of their risks and limitations. 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 team-based project work in the field of Audio Forensics and Restoration. Apply appropriate analytical techniques to a range of subject specific problems and demonstrate the ability to apply the appropriate strategies to the application of analysis tools to solve practical problems. Communicate effectively in a legally informed professional manner by the means of written and spoken technical English.
Alternative Exit	Postgraduate Diploma - PD	Demonstrate comprehensive knowledge and critical awareness of essential facts, concepts, theories and principles of Audio Forensics and Restoration, and its underpinning science and mathematics. They must have an appreciation of the wider multidisciplinary context and its underlying principles. Account for the social, environmental, ethical, economic, limitations & risks, legal and commercial considerations affecting the exercise of their judgement. Use fundamental knowledge to investigate new and emerging technologies and synthesise solutions to Audio Forensics and Restoration 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 team-based project work in the field of Audio Forensics and Restoration 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 the appropriate strategies to the application of analysis tools to solve practical problems. Communicate effectively in a legally informed professional manner by the means of written and spoken technical English. Generate and synthesise evidence required in the solution of complex Audio Forensics and Restoration problems.

Alternate Award Names	

External Benchmarks

Subject Benchmark Statement	PGT-Engineering (2020)

Programme Offering(s)

Mode of Study, Mode of Delivery	Intake Month	Teaching Institution	Programme Length
Full-Time, Face to Face	January	LJMU Taught	1 Years
Full-Time, Face to Face	September	LJMU Taught	1 Years

Aims and Outcomes

Educational Aims of the Programme

To explore future developments in Audio Forensics and Restoration To develop advanced analytical and procedural skills that will allow the successful graduate to design suitable methodologies and provide them with the skills to critically analyse existing approaches, their functionality and expected performance To develop in the students 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 students that complete the programme to hold responsible technical and managerial roles involving Forensic Audio and Audio Restoration. To provide students with a well-developed academic base that provides for further learning/research/personal and professional development To develop in the students an ability to conduct scholarly activity and undertake self-driven research/project work and to deliver high quality results, and to provide 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 of Audio Forensics and Restoration, and its underpinning science and mathematics. They must have an appreciation of the wider multidisciplinary context and its underlying principles.
PLO2	Generate and synthesise evidence required in the solution of complex Audio Forensics and Restoration problems.
PLO3	Work on an independent project that will add knowledge to the existing state-of-the-art in a research area related to the field of study.
PLO4	Propose methodologies to extend existing projects to achieve improvement and extended learning.
PLO5	Account for the social, environmental, ethical, economic, limitations & risks, legal and commercial considerations affecting the exercise of their judgement.
PLO6	Use fundamental knowledge to investigate new and emerging technologies and synthesise solutions to Audio Forensics and Restoration problems.
PLO7	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 team-based project work in the field of Audio Forensics and Restoration

Code	Description
PLO8	Critically evaluate processes and identify and make improvements by using problem-solving skills and appropriate software /and hardware.
PLO9	Critically evaluate and select the most appropriate research methodologies for the solution of problems in a timely and robust manner.
PLO10	Apply appropriate analytical techniques to a range of subject specific problems and demonstrate the ability to apply the appropriate strategies to the application of analysis tools to solve practical problems.
PLO11	Instigate, plan and manage projects, taking into account commercial, industrial, and legal requirements.
PLO12	Communicate effectively in a legally informed professional manner by the means of written and spoken technical English.

Programme Structure

Programme Structure Description

The Research Skills module (7330ELEM) must be passed prior to the submission of the dissertation (7340ELEM). The award of Postgraduate Certificate or Postgraduate Diploma may not include module 7340ELEM - MSc Dissertation.

Programme Structure - 180 credit points	
Level 7 - 180 credit points	
Level 7 Core - 180 credit points	CORE
[MODULE] 7000AMP Audio Forensics Theory and Practice Approved 2022.01 - 30 credit points	
[MODULE] 7001AMP Audio Restoration Theory and Practice Approved 2022.01 - 30 credit points	
[MODULE] 7002AMP Enterprise and the Commercial Context Approved 2022.01 - 20 credit points	
[MODULE] 7003AMP Legacy Media Formats Approved 2022.01 - 10 credit points	
[MODULE] 7106FSBMOL Law and Court Room Skills Approved 2022.02 - 20 credit points	
[MODULE] 7330ELEM Research Skills Approved 2022.01 - 10 credit points	
[MODULE] 7340ELEM MSc Dissertation Approved 2022.01 - 60 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 practical work, case-studies and simulation work. 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 design case-studies, simulation work 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, design and problem-solving 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 forensics and/or audio restoration 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 contextualisation of the taught material.

Entry Requirements

Type	Description
IELTS	IELTS English language requirement: 6.0 (minimum 5.5 in each component)
	A 2.2 Honours degree or above in Audio Production, Audio Technology, Sound Technology, or a related audio discipline or A 2.2 Honours degree or above in Forensic Science, Mathematics or a physical science, together with experience in a relevant field, or A degree with industrial experience or relevant postgraduate experience, or 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

Extra Entry Requirements