

# Audio Restoration Theory and Practice

## Module Information

2022.01, Approved

### Summary Information

Module Code	7001AMP
Formal Module Title	Audio Restoration Theory and Practice
Owning School	Engineering
Career	Postgraduate Taught
Credits	30
Academic level	FHEQ Level 7
Grading Schema	50

### Teaching Responsibility

LJMU Schools involved in Delivery
Engineering

### Learning Methods

Learning Method Type	Hours
Lecture	22
Practical	33

### Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-CTY	CTY	January	12 Weeks

### Aims and Outcomes

Aims	To provide students with a comprehensive understanding of the theory, processes and techniques in the field of Audio Restoration To equip the student with knowledge and understanding to critically analyse, select and apply appropriate techniques to transcode, restore, deliver and report upon the methodologies engaged in the recovery of audio media
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**After completing the module the student should be able to:**

**Learning Outcomes**

Code	Number	Description
MLO1	1	Critically appraise the formats and processes for professional standard audio restoration projects
MLO2	2	Analyse, research and apply appropriate informed methods to set up and benchmark an Audio Restoration suite
MLO3	3	Deliver restored materials in a variety of appropriate professional standards and report in depth, showing a thorough understanding of the risks, implications and influence of the procedures completed.

**Module Content**

Outline Syllabus	Introduction to Audio Restoration Benchmarking and Reference Equipment setup The Syllabus involves applying The Restoration Process chain appropriately for various Legacy formats. These are: 1. Capture from original format 2. Transfer to digital format 3. Manipulation in Restoration Software 4. Quality Assessment and Documentation for effectiveness and acceptability of the restoration processes 5. Storage options for completed restoration (File formats etc.) 6. Distribution and Streaming options of finished materials Formats studied will include: Mechanical (Cylinder and Disc) Electrically Recorded Analogue formats (Disc) Electrically recorded optical formats (Sound on Film) Analogue Magnetic Tape formats (Reel to Reel, Cassette, 8 Track, VHS, Betamax) Digital Tape Formats (DAT) Optical Digital Formats (CD DVD Blu-ray Mini Disc) Solid State digital formats (Mobile media recordings e.g. phone, dashcam)
Module Overview	This module will provide students with a thorough understanding of the relevant skills, processes and procedures pertinent to their potential role as an Audio Restoration Specialist. The focus will be on many common audio legacy formats although there may be scope to specialise in specific areas of the industry.
Additional Information	This module will provide students with a thorough understanding of the relevant skills, processes and procedures pertinent to their potential role as an Audio Restoration Specialist. The focus will be on many common audio legacy formats although there may be scope to specialise in specific areas of the industry.

**Assessments**

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Exam	Test	25	0	MLO1
Practice	Remastering	50	0	MLO1, MLO2, MLO3
Report	Optimisation	25	0	MLO1, MLO2

**Module Contacts**

**Module Leader**

Contact Name	Applies to all offerings	Offerings
Colin Robinson	Yes	N/A

**Partner Module Team**

Contact Name	Applies to all offerings	Offerings
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