

ADVANCED DIPLOMA IN
**MUSIC PRODUCTION &
SOUND ENGINEERING**

tgc[®]



Music Production (1yr)

Introduction to Desktop Production Tools

(8 Session)

- Music Production Process
- Creating Musical Ideas
- Listening and Analysis
- Recording
- Editing
- Mixing
- Mastering
- Music Production Tools
- Synthesizers
- MIDI Sequencers
- Audio Recorders
- Processors
- Mixer

Signal Flow

- Analog Audio Signals and Connections
- Digital Audio Signals and Connections
- Signal Flow Between Devices
- Setting Up a Virtual Studio
- MIDI Signal Flow
- Studio Configuration

Exam – Practical exam on doing a signal flow

Sound Theory and Acoustic Considerations

- Your Sound System
- Sound Theory
- Waves
- Amplitude
- Phase
- Frequency and Wavelength
- Velocity
- Harmonic Content
- Acoustics
- Hearing
- Analysing the Acoustic Space
- Acoustic Treatment Options

Project – Submitting an assignment on Sound Acoustics

StudioMicrophone

(4 Session)

- Microphone: Style, Types, Sounds and Application
- Microphone Placement

Project – Submit assignment for different types of mic

StudioSoftware

(8 Session)

- Digital Audio
- Plug ins and uses
- Inserts and Sends
- Timing Correction
- Tuning Possibilities
- Recording

Project -Submit assignment for different types of DAW

Music Theory

(8 Session)

- Introduction and Chords I ; Major Scale Triads
- Chords II ; Harmonizing in Thirds
- Harmonizing ; Minor Scale
- Introduction and Chords I ; Major Scale Triads
- Chords II ; Harmonizing in Thirds

Project – Prepare chord charts & Circle of fifth

Exam – Production Tools, Signal Flow, Sound Acoustics & Music Theory

Electronic Music Synthesizers (4 session)

- What's a Synthesizer?
- Properties of Sound
- Pitch, Timbre, Loudness
- Virtual Instruments
- Digital Samplers

Project – Submitting assignment on different synth

MIDI Sequencing: Patterns and Recording (4 Session)

- MIDI Messages
- Patterns in Music
- Creating Patterns
- Building an Arrangement from Patterns
- Playing Against a Drum Track
- Assignment: Reason Sequencing Project

Editing MIDI Sequences (8 Session)

- Editing MIDI Sequences
- Exploring Tempo, Key, Song Length, Velocity, Dynamics, Gate Time, Delay, Event-Level Editing
- Fixing Mistakes
- Correcting Timing
- Correcting Durations
- Correcting Dynamics
- Editing Pitch
- Cut/Copy/Paste Operations
- Editing in the Arrange Window—The Logic Tools
- MIDI Mixing and Automation

Project – Prepare 4 different types of MIDI project in DAW

Exam – Practical exam on MIDI sequence, EMS, Recording & Sequencing

Music Genres (4 Session)

- Introduction to Genres
- EDM
- Rock/Pop
- Hip-Hop/Trap
- Bollywood/Punjabi

Project – Create 2 different projects in 2 different genre

Music Production Ideas	(4 Session)
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|---|
| <ul style="list-style-type: none">• Music Genre |
| <ul style="list-style-type: none">• Targeting Textures and Treatment for the Artist Sound |
| <ul style="list-style-type: none">• Focusing Song and Artist Vision |
| <ul style="list-style-type: none">• Understanding the Artist's Audience |
| <ul style="list-style-type: none">• Listening and Analysing Comparable Artist |

Project – Create An Original Composition

Song Treatment	(8 Session)
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| <ul style="list-style-type: none">• Every Song is it's Own Entity |
| <ul style="list-style-type: none">• Explaining and Developing Verse and Chorus Element's |
| <ul style="list-style-type: none">• The Beauty of Repetitive Themes |
| <ul style="list-style-type: none">• Developing Melody |
| <ul style="list-style-type: none">• Setting up the Chorus |
| <ul style="list-style-type: none">• The Breakdown |
| <ul style="list-style-type: none">• The Climactic ending |

Project – Create An Original Melody
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Instrumental Treatment	(4 Session)
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| <ul style="list-style-type: none">• Focusing Feel of the Song |
| <ul style="list-style-type: none">• Percussion – Developing Drum feel for the song |
| <ul style="list-style-type: none">• Keeping it simple |
| <ul style="list-style-type: none">• Developing Hook lines Instrumentally |

Project – Create A Groove

Vocal Performance	(4 Session)
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| <ul style="list-style-type: none">• Figuring out the best way to work with your artist |
| <ul style="list-style-type: none">• Make sure you understand the Lyrics and meaning of the song and your input into |
| <ul style="list-style-type: none">• Vocal Production techniques ; doubling, layering, time based effects, compression, tuning |

Project – Recording Your Own Vocals

Song Structure & Sample Layering (12 Session)

- Arrangement Structure
- Instrumentation and Important Instruments in a Genre
- Sample Selection based on your Genre
- Layering Samples based on your Genre
- Layering Samples and Synth sounds
- FX placement
- Automation Filters, Pitch, Time etc
- Building your own FX
- Music secrets to help you make melodies easily

Project –Arranging the Whole Track

Putting it All Together (8 Session)

- Fundamentals of Building Great Sounds for the Core Instruments
- Establishing the Foundation
- Using Dynamics and Effects Appropriately
- Establishing a Baseline Volume and Keeping It There

Project –Completing and Submitting the Whole song

Remix A Song (16 Session)

- Find the BPM & key of the original song
- Give it your own sound
- Create a tentative game plan
- Get Creative & Experiment

Project – Creating 2 remix of your own

Introduction to Film Score (8 Session)

- Diegetic Sound
- Non- Diegetic Sound

Film Soundtrack (12 Session)

- Human Voices
- Music
- Orchestral arrangement
- Foley
- Sound Effects SFX

Project – Creating An Original Film Score

Game Audio Soundtrack (8 Session)

- Sound Effects SFX
- Foley
- Background Music

Project – Creating A Soundtrack for Game

Mixing

Effects Processing (Part 1) (16 Session)

- Intro: The Environment
- Insert Effects
- Aux Send and Return Effects Reverb Send and Return
- Overview of Effects Types
- Spectrum Processing: Filters
- Equalizer
- Different types of EQ
- Mix Practice--Adding EQ and Reverb

Project -Mixing 2 Tracks

Effects Processing (Part 2) (12 Session)

- Dynamics Processing
- All About Compression
- Compressing the Bass Track
- Gating
- Time-Based Effects
- The Delay Family
- Doubling/Flanging/Chorus
- Reverb

Project – Completing The Mixed Tracks

Art Of Mixing

(4 Session)

- Separation in the Mix
- Mixing Vocals
- Group Mixing (Mix Process)
- Creativity with Audio
- DIY Mastering
- Limiter, Dithering

Project– Completing The Whole Mix

Mastering

(16 Session)

- What Is Mastering?
- Digital Theory
- EQ
- Compression
- Practical Dynamics
- Mastering Different Styles
- Advanced Techniques: Mid/Side
- Multi Band Compression
- Working on Albums, Compilations
- Editing: Fades, Cross-Fades, Gaps
- Level & Tonal Coherence

Project– Mastering the earlier Mixed Track& 2 other tracks

Final Project Critique and Course Wrap-Up

(8 Session)

- Course Wrap-Up
- Where Do You Go From Here?
- How to Grow Your Basic Setup
- Suggested Additional Reading

Add On

- Free Samples& Loops worth 20GB
- Free Plugins
- Free Software's
- Free Templates
- Free PDF books