SYLLABUS FOR BOARD OF STUDIES ADOPTION — generated from the live catalogue record

Conversational AI and Intelligent Agents

S-04B · 3 days (configurable 1–5 days) · Informatics · AI · Years: 2nd, 3rd, PG

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OVERVIEW

Intent design, dialogue management and a deployed chatbot integrated with a live data source.

Chatbots and voice assistants are now standard business interfaces; students who can design intents and ship a working assistant meet a fast-rising demand.

HOURS AND CREDIT POSITION

Contact hours: 24 Guided project: 6 Self-study: 0 Notional total: 30

Credit claim: 1
30 notional hours ÷ 30 hours per credit (NSQF track, UGC Micro-credentials Guidelines §5.3.3) = 1 credits.

COURSE OUTCOMES

CO1. Describe the architecture of a conversational AI system (K2)
CO2. Design intents and entities for a stated business use case (K3)
CO3. Implement a multi-turn dialogue flow with context (K3)
CO4. Integrate a chatbot with a live data source through an API (K3)
CO5. Deploy and test a chatbot on a messaging channel (K3)

COURSE CONTENT — MODULES

Hours shown are the recommended format; module time scales proportionally when the engagement runs 1–5 days.

Module 1 — Conversational AI foundations (4h recommended)
Theory: Use cases, architecture, natural-language-understanding concepts
Lab: Map a use case to an assistant architecture
Output: Architecture sketch

Module 2 — Intent and entity design (4h recommended)
Theory: Designing intents, entities, training phrases
Lab: Design an intent-and-entity model
Output: Intent model

Module 3 — Dialogue management (4h recommended)
Theory: Context, slots, multi-turn flows
Lab: Build a multi-turn dialogue
Output: Dialogue flow

Module 4 — Integration (4h recommended)
Theory: Connecting to APIs and live data sources
Lab: Integrate the assistant with an API
Output: Integrated assistant

Module 5 — Deployment and channels (4h recommended)
Theory: Deploying to web and messaging channels, testing
Lab: Deploy and test on a channel
Output: Deployed assistant

Module 6 — Assistant capstone (4h recommended)
Theory: A live-data chatbot end to end
Lab: Ship a chatbot on live data
Output: Capstone chatbot

ASSESSMENT SCHEME (100 MARKS)

Continuous lab exercises — 40 marks
Capstone project & demonstration — 40 marks
Quiz & viva voce — 20 marks

CO–PO MAPPING

CO1 !' PO1 (strength 2)
The architecture is foundational knowledge.

CO2 !’ PO3 (strength 2)
Intent design is solution design.
CO3 !’ PO3 (strength 2)
Dialogue implementation is solution development.
CO4 !’ PO5 (strength 2)
API integration is modern-tool usage.
CO5 !’ PO5 (strength 2)
Deployment to a channel is modern-tool usage.

EVERY PARTICIPANT RECEIVES

- Certificate of completion
- Course material
- LMS access
- Interview question bank
- Mock interview & viva practice
- Optional nasscom NSQF assessment (priced per candidate on your quotation)

FEE

¹850 per student, incl. GST
Excludes the optional nasscom assessment where offered. Final pricing on your college's quotation.

DESIGNED BY

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