SYLLABUS OF

ONE YEAR POST-GRADUATE DIPLOMA IN LIBRARY AUTOMATION AND DIGITIZATION (PGDLAD) UNDER SELF-FINANCING MODE

(w.e.f. 2018-19 SESSION)

Course Duration: 1 Year [Semester-I (Jan-June) & Semester-II (July –Dec)]

Course Credits: 34 Credits

Students Intake: 20 Students.

SEMESTER - I

Course Code	Course Title	Credits	Univ. Exam		Assignment	Full marks
			Theory	Practical		
DLAD-01	Database & Information Management	4	80	--	20	100
DLAD-02	Library Automation and Networking	4	80	--	20	100
DLAD-03	Digitization & Digital Library	4	80	--	20	100
DLAD-04	Library Automation-Practical	4	--	100 (Lab + Viva)	--	100
DLAD-05	Digital Library-Practical	4	--	100 (Lab + Viva)	--	100

SEMESTER – II

Course Code	Course Title	Credits	Univ. Exam		Assignment	Full marks
			Theory	Practical		
DLAD-06	Seminar	2	--	--	--	50
DLAD-07	Internship	4	--	--	--	100
DLAD-08	Project Work	8	--	--	--	200

DLAD-01 DATABASE & INFORMATION MANAGEMENT

UNIT 1 – Database design and implementation

- Database - Concept, properties, model, schema and instances
- Concept of Relational, Object-Relational and Distributed databases
- ER Diagram, Functional dependencies and Normalization
- Concept of Database connectivity – ODBC, JDBC, OLEDB & .NET

UNIT2 – Structured Query Language

- Data definition language
- Data manipulation language
- Data administration language
- Multi-table Queries and Multi-row Nested Queries

UNIT 3 –Knowledge discovery through data mining

- Definition, Benefits and applications of data mining
- Data mining approaches and functionalities
- Important data mining techniques
- Web Mining and its applications

UNIT 4 – Content Management Systems

- Concept, Definition, Benefits and use
- CMS website versus other websites
- XML based content management
- Popular Open source CMS

DLAD-02 LIBRARY AUTOMATION AND NETWORKING

UNIT 1: Planning & Implementation of Automation

- Approaches to Library Automation
- Steps in Planning Library Automation
- Implementation of Library Automation
- Retrospective Conversion

UNIT 2: Formats & Standards for Library Automation

- Concept of Bibliographic standards
- MARC21 format and its structure
- Resource Description and Access (RDA)

— Z39.50 standard and Discovery services

UNIT 3: Execution of Automated Housekeeping operations

— Automated Acquisition Control System
— Automated Cataloguing System
— Automated Circulation System
— Automated Serials Control System

UNIT 4: Network-based computerized Information Services

— Computerized Alerting services
— Computerized Bibliographic services
— Computerized Document Delivery services
— Computerized Reference services

DLAD-03 DIGITIZATION & DIGITAL LIBRARY

UNIT 1: Digital Library Architecture & Design

— Components and their relationships involved in digital libraries
— Architecture, Interoperability, Compatibility, User Interfaces
— Planning, Implementation, Promotion and Evaluation of digital libraries
— Popular Digital Library software ad their features

UNIT 2: Standards, IPR and Legal Issues

— File formats, Identifiers & Handle systems in digital libraries
— Metadata standards – Dublin Core, METS, TEI etc
— Metadata interoperability – crosswalking and mapping
— Copyright and Rights Management in digital libraries

UNIT 3: Digitization and Digital Preservation

— Digitization – forms, process, techniques; scanning, OCR, editing and publishing
— Guidelines, methods, techniques and best practices for digital preservation
— Issues and challenges for digital archiving and preservation
— Institutional Repositories and Open Archive Initiatives

UNIT 4: Ontology and Semantic web

- Semantic Web – concept, vision, vocabularies and languages
- model ontologies using Resource Description Framework (RDF)
- Model and design ontologies using Web Ontology Language (OWL).
- Semantic Web & Intelligent Agents

DLAD-04 LIBRARY AUTOMATION-PRACTICAL

- Hands on experience of KOHA software

DLAD-05 DIGITAL LIBRARY-PRACTICAL

- Hands on experience of DSpace and GSDL software

DLAD-06 SEMINAR

DLAD-07 INTERNSHIP

DLAD-08 PROJECT WORK