महात्मा गाँधी केन्द्रीय विश्वविद्यालय
MAHATMA GANDHI CENTRAL UNIVERSITY
[Established by an Act of Parliament]

4-Year Bachelor (Honours with Research) in Library and Information Science

Syllabus
(Under NEP - 2020 w.e.f. 2024-25 - onwards)

DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE
महात्मा गाँधी केन्द्रीय विश्वविद्यालय
MAHATMA GANDHI CENTRAL UNIVERSITY
(Established by an Act of Parliament)
Administrative Office: Dr. Ambedkar Administrative Building, Near OP Thana, Raghunathpur, Motihari,
District: East Champaran, Bihar - 845401

4-Year Bachelor (Honours with Research) in Library and Information Science

A four-year full-time course divided into eight semesters leading to the degree of 4-Year Bachelor (Honours with Research) Programme in Library and Information Science

A. Program Details

Name of the Department: Department of Library and Information Science

School: School of Computational Sciences, Information and Communication Technology (SCSI&CT)

Subject: Library & Information Science

Duration of the Programme: 4 Year divided into 8 Semester (NEP 2020 System)

B. Objectives of the Programme

1. To promote Multidisciplinary and a Holistic education across the sciences, social sciences, arts and humanities.
2. To familiarize students with basic concepts of Library and Information Science.
3. To learn knowledge organization and processing.
4. To emphasize on conceptual understanding rather than rote learning and learning-for- exams.
5. To develop skills in using computer and communication technology.
6. To enhance in personality and communication skills.
7. To promote flexibility, so that learners have the ability to choose their learning trajectories and programmes, and thereby choose their own paths in life according to their talents and interests,
8. Flexibility, so that students have the ability to choose their learning trajectories and programmes, and thereby choose their own paths in life according to their talents and interests.

C. Programme Outcomes

After the completion of this programme the student will be in a position to work at middle and top managerial positions in all types of libraries, viz. academic, public, or special. It involves competencies relating to drafting and getting approval for the library policy, delegation, recruitment, conflict resolution, etc. They will have competencies to design and develop innovative library services such as integrated library management systems, digital library, institutional repositories and for the specific needs of the community of users. Additionally, they will be able to conduct studies to evaluate the impact, effectiveness and efficiency of library services and library collection among the users. Another outcome of the programme is to develop a strong subject foundation for doctoral-level courses in library and information science.

C. Details of Course Credit Scheme and Scheme of Examination:

4-Year Bachelor (Honours with Research) in Library and Information Science (2024-25 onwards) Intake: 33 Total Semester: 8 Credit: 188			
Level	Programme	Qualification Titles	Total Credits
Level 4.5	4-Year Bachelor (Honours with Research) in Library and Information Science **Ist Year**	**Minimum Eligibility:** 10 + 2 in any discipline from Central/State Government recognized Board having minimum 50% marks or equivalent grade (5% marks relaxation for SC/ST/OBC (Non-creamy layer)/PwD Candidates)	**Semester I: 24 Credits Semester II: 24 Credits Total : 48 Credits**
		Type of Qualification Students on exit shall be awarded Undergraduate Certificate in Library and Information Science after securing the requisite 44 Total 44 Credits (Including 4 Credits Internship) on completion of Semester II	**Exit student: 48+4 = 52 credits**
Level 5	4-Year Bachelor (Honours with Research) in Library and Information Science **IInd Year**	**Minimum Eligibility:** 10 + 2 in any discipline from Central/State Government recognized Board having minimum 50% marks or equivalent grade (5% marks relaxation for SC/ST/OBC (Non-creamy layer)/PwD Candidates) and One Year Undergraduate Certificate in Library and Information Science having minimum 50% marks or equivalent grade (5% marks relaxation for SC/ST/OBC (Non-creamy layer)/PwD Candidates) from Central/State Government recognized Board	**Semester III: 24 Credits Semester IV: 24 Credits Total: 48+48 = 96 Credits**
		Type of Qualification Students on exit shall be awarded **Undergraduate Diploma in Library and Information Science** after securing the requisite 84 credits. Total 84 Credits (Including 4 Credits Internship) on completion of Semester IV	**Exit student: 96+4 = 100 credits**

Level	Programme	Qualification Titles	Total Credits
Level 5.5	4-Year Bachelor (Honours with Research) in Library and Information Science **IIIrd Year**	<mark>**Minimum Eligibility:**</mark> 10 + 2 in any discipline from Central/State from Central/State Government recognized Board having minimum 50% marks or equivalent grade (5% marks relaxation for SC/ST/OBC (Non-creamy layer)/PwD Candidates) and Two Years Undergraduate Diploma in Library and Information Science having minimum 50% marks or equivalent grade (5% marks relaxation for SC/ST/OBC (Non-creamy layer)/PwD Candidates) from Central/State Government recognized Board	**Semester V: 24 Credits** **Semester VI: 24 Credits** **Total: 96+48 =** **144 Credits**
		Type of Qualification Students on exit shall be awarded **Bachelor of Library and Information Science** after securing the requisite 148 credits (Including 4 Credits Internship) on completion of Semester VI	**Exit student : 144+4 =** **148 Credits**
Level 6	4-Year Bachelor (Honours with Research) in Library and Information Science **IVth Year**	<mark>**Minimum Eligibility:**</mark> Bachelor (Hons.) in Library and Information Science or, having minimum 50% marks or equivalent grade (5% marks relaxation for SC/ST/OBC (Non-creamy layer)/PwD Candidates) from Central/State Government recognized University with B.Lib.I.Sc. with 75% marks or equivalent grade and wish to undertake research at the undergraduate level can choose a research stream in the fourth year. **Type of Qualification** Students shall be awarded **4-year Bachelor (Honours with Research) in Library and Information Science** with 75% and above in after securing the requisite 188 credits on completion of Semester VIII Other Students shall be awarded **4-year Bachelor (Honours) in Library and Information Science** with below 75% in after securing the requisite 188 credits on completion of Semester VIII	**Semester VII: 22 Credits** **Semester VIII: 22Credits** **Total : 144+44 =** **188 Credits**

4-Year Bachelor (Honours with Research) in Library and Information Science

1st Year, Semester I, Level 4.5

Course Code	Course Title	Broad Category of Course	Credit Distribution				Duration	IA	ESE	Total
			L	T	P	Total				
Discipline Specific Core Course (DSC) (Compulsory)										
BLIS3101	Foundation of Library and Information Sciences	Core/DSC	3	1	0	4	60 HRS	40	60	100
BLIS3102	Knowledge Organization I: Classification (Theory)	Core/DSC	3	1	0	4	60 HRS	40	60	100
BLIS3103	Fundamentals of Computer (Theory)	Core/DSC	3	1	0	4	60 HRS	40	60	100
BLIS3 104: Generic Elective (GE) (Opt any one course from the following or, choose from MOOCs/SWAYAM/ Multi-disciplinary from other departments of University) (Select Any One)										
BLIS3104A	Knowledge Society	GE	3	1	0	4	60 HRS	40	60	100
BLIS3104B	Historical Development of Library	GE	3	1	0	4	60 HRS	40	60	100
BLIS3104C	Human Resource Management	GE	3	1	0	4	60 HRS	40	60	100
Ability Enhancement Course (AEC)										
BLIS3105	Hindi Grammar and Composition	AEC	1	1	0	2	30 HRS	40	60	100
Skill Enhancement Course/Practical (Compulsory)										
BLIS3106	Knowledge Organization I: Classification (Practical)	PC/SEC	0	1	1	2	30 HRS	40	60	100
BLIS3107	Fundamentals of Computer (Practical)	PC/SEC	0	1	1	2	30 HRS	40	60	100
BLIS3108: Value -Added Course (VAC) (Select Any One)										
BLIS3108A	Library and Information Portals	VAC	1	1	0	2	30 HRS	40	60	100
BLIS3108B	Library 4.0	VAC	1	1	0	2	30 HRS	40	60	100
BLIS3109: Mandatory Elective Non-Credit Course (MENC) equivalent to 2 credits (Opt any one course from the following) (Select Any One)										
BLIS3109A	Open Access Initiatives	MENC					30 HRS			
BLIS3109B	Information, Communication and Society	MENC					30 HRS			
				Total Credit		24				

Abbreviations:
DSC: Discipline Specific Core Course (Compulsory), **OEC**: Open Elective Course, **PC**: Practical Course, **SEC**: Skill Enhancement and **MENC**: Mandatory Elective Non-Credit Courses equivalent to 2 credits.

4-Year Bachelor (Honours with Research) in Library and Information Science

1st Year, Semester II, Level 4.5

Course Code	Course Title	Broad Category of Course	Credit Distribution				Duration	IA	ESE	Total
			L	T	P	Total				
Discipline Specific Core Course (DSC) (Compulsory)										
BLIS3201	Management of Library and Information Centres	Core/DSC	3	1	0	4	60 HRS	40	60	100
BLIS3202	Knowledge Organisation II: Cataloguing (Theory)	Core/DSC	3	1	0	4	60 HRS	40	60	100
BLIS3203	Collection Development and Management of E-Resources (Theory)	Core/DSC	3	1	0	4	60 HRS	40	60	100
BLIS3 204: Generic Elective (GE) (Opt any one course from the following or, choose from MOOCs/SWAYAM/ Multi-disciplinary from other departments of University) (Select Any One)										
BLIS3204A	Organizing and Managing Information	GE	3	1	0	4	60 HRS	40	60	100
BLIS3204B	Library and Information in Social Perspective	GE	3	1	0	4	60 HRS	40	60	100
BLIS3204C	Libraries, Information and Knowledge - Based Society	GE	3	1	0	4	60 HRS	40	60	100
Ability Enhancement Course (AEC)										
BLIS3205	English Grammar and Composition	AEC	1	1	0	2	30 HRS	40	60	100
Skill Enhancement Course/Practical (Compulsory)										
BLIS3206	Knowledge Organisation II: Cataloguing (Practical)	PC/SEC	0	1	1	2	30 HRS	40	60	100
BLIS3207	Collection Development and Management of E-Resources (Practical)	PC/SEC	0	1	1	2	30 HRS	40	60	100
BLIS3208: Value -Added Course (VAC) (Select Any One)										
BLIS3208A	National Information System	VAC	1	1	0	2	30 HRS	40	60	100
BLIS3208B	Library and Social Media	VAC	1	1	0	2	30 HRS	40	60	100
BLIS3209: Mandatory Elective Non-Credit Course (MENC) equivalent to 2 credits (Opt any one course from the following) (Select Any One)										
BLIS3209A	Internet of Things	MENC					30 HRS			
BLIS3209B	RFID Implementation	MENC					30 HRS			
					Total Credit	**24**				
BLIS3210	Internship* (Exit Module)	Internship	0	1	3	4	60 HRS	40	60	100

Abbreviations:
DSC: Discipline Specific Core Course (Compulsory), **OEC**: Open Elective Course, **PC**: Practical Course, **SEC**: Skill Enhancement and **MENC**: Mandatory Elective Non-Credit Courses equivalent to 2 credits.

Students on exit shall be awarded Undergraduate Certificate in Library and Information Science after securing the requisite 52 Credits (Including 4 Credits in Internship Programme) on completion of Semester II

4-Year Bachelor (Honours with Research) in Library and Information Science

2nd Year, Semester III, Level 5

Course Code	Course Title	Broad Category of Course	Credit Distribution				Duration	IA	ESE	Total
			L	T	P	Total				
Discipline Specific Core Course (DSC) (Compulsory)										
BLIS3301	Information Source, System and Services	Core/DSC	3	1	0	4	60 HRS	40	60	100
BLIS3302	Knowledge Management	Core/DSC	3	1	0	4	60 HRS	40	60	100
BLIS3303	Knowledge Organization III: Advanced Classification (Theory)	Core/DSC	0	1	3	4	60 HRS	40	60	100
BLIS3304: Discipline Specific Elective Course (Opt any one course from the following or, choose from MOOCs/SWAYAM/Generic Elective (GE) from other departments of University) (Select Any One)										
BLIS3304A	Remote Access of Electronic Resources	DSE	3	1	0	4	60 HRS	40	60	100
BLIS3304B	Library Consortia	DSE	3	1	0	4	60 HRS	40	60	100
BLIS3304C	Library and Information Science Profession	DSE	0	1	3	4	60 HRS	40	60	100
Ability Enhancement Course (AEC)										
BLIS3305	Principal Hindi	AEC	1	1	0	2	30 HRS	40	60	100
Internship/Apprenticeship/Project/Community Outreach (IAPC)										
BLIS3306	Re-Envisioning Public Library	IAPC	1	1	0	2	30 HRS	40	60	100
Skill Enhancement Course/Practical (Compulsory)										
BLIS3307	Knowledge Organization III: Advanced Classification (Practical)	PC/SEC	0	1	1	2	30 HRS	40	60	100
BLIS3308: Value -Added Course (VAC) (Select Any One)										
BLIS3308A	Professional Ethics in LIS	VAC	1	1	0	2	30 HRS	40	60	100
BLIS3308B	Cloud Computing	VAC	1	1	0	2	30 HRS	40	60	100
BLIS3309: Mandatory Elective Non-Credit Course (MENC) equivalent to 2 credits (Opt any one course from the following) (Select Any One)										
BLIS3309A	Personality Development and Communication Skills	MENC					30 HRS			
BLIS3309B	Professional Ethics	MENC					30 HRS			
					Total Credit	24				

Abbreviations:
DSC: Discipline Specific Core Course (Compulsory), **OEC**: Open Elective Course, **PC**: Practical Course, **SEC**: Skill Enhancement and **MENC**: Mandatory Elective Non-Credit Courses equivalent to 2 credits.

4-Year Bachelor (Honours with Research) in Library and Information Science

2nd Year, Semester IV, Level 5

Course Code	Course Title	Broad Category of Course	Credit Distribution				Duration	IA	ESE	Total
			L	T	P	Total				
Discipline Specific Core Course (DSC) (Compulsory)										
BLIS3401	Preservation & Conservation of Library Materials	Core/DSC	3	1	0	4	60 HRS	40	60	100
BLIS3402	Knowledge Organisation IV: Advanced Cataloguing (Theory)	Core/DSC	3	1	0	4	60 HRS	40	60	100
BLIS3403	Library Automation and Networking (Theory)	Core/DSC	3	1	0	4	60 HRS	40	60	100
BLIS3404: Discipline Specific Elective Course (Opt any one course from the following or, choose from MOOCs/SWAYAM/Generic Elective (GE) from other departments of University) (Select Any One)										
BLIS3404 A	Institutional Repository	DSE	3	1	0	4	60 HRS	40	60	100
BLIS3404 B	Intellectual Property Rights and Copyrights	DSE	3	1	0	4	60 HRS	40	60	100
BLIS3404 C	Database Design and Management	DSE	0	1	3	4	60 HRS	40	60	100
Ability Enhancement Course (AEC)										
BLIS3405	English Comprehension and Writing Skills	AEC	1	1	0	2	30 HRS	40	60	100
Internship/Apprenticeship/Project/Community Outreach (IAPC)										
BLIS3406	Re-Envisioning Academic Library	IAPC	1	1	0	2	30 HRS	40	60	100
Skill Enhancement Course/Practical (Compulsory)										
BLIS3407	Knowledge Organisation IV: Advanced Cataloguing (Practical)	SEC	0	1	1	2	30 HRS	40	60	100
BLIS3408: Value -Added Course (VAC) (Select Any One)										
BLIS3408A	Mobile-Based Library Services	VAC	1	1	0	2	30 HRS	40	60	100
BLIS3408B	Intelligent Library Search and Federated Search	VAC	1	1	0	2	30 HRS	40	60	100
BLIS3409: Mandatory Elective Non-Credit Course (MENC) equivalent to 2 credits (Opt any one course from the following) (Select Any One)										
BLIS3409A	Academic Integrity and Plagiarism	MENC					30 HRS			
BLIS3409B	Information Security	MENC					30 HRS			
				Total Credit		24				
BLIS3410	Internship* (Exit Module)	Internship	0	1	3	4	60 HRS	40	60	100

Abbreviations:
DSC: Discipline Specific Core Course (Compulsory), **OEC**: Open Elective Course, **PC**: Practical Course, **SEC**: Skill Enhancement and **MENC**: Mandatory Elective Non-Credit Courses equivalent to 2 credits.

Students on exit shall be awarded Undergraduate Diploma in Library and Information Science after securing the requisite 100 Credits (Including 4 Credits Internship) on completion of Semester IV

4-Year Bachelor (Honours with Research) in Library and Information Science

3rd Year, Semester V, Level 5.5

Course Code	Course Title	Broad Category of Course	Credit Distribution				Duration	IA	ESE	Total
			L	T	P	Total				
Discipline Specific Core Course (DSC) (Compulsory)										
BLIS3501	Marketing of Library and Information Products and Services	Core/DSC	3	1	0	4	60 HRS	40	60	100
BLIS3502	Information and Communication Technology (Theory)	Core/DSC	3	1	0	4	60 HRS	40	60	100
BLIS3503	Media and Information Literacy in LIS	Core/DSC	3	1	0	4	60 HRS	40	60	100
BLIS3504: Discipline Specific Elective Course (Opt any one course from the following or, choose from MOOCs/SWAYAM from other departments of University) (Select Any One)										
BLIS3504 A	Academic Library and Information System	DSE	3	1	0	4	60 HRS	40	60	100
BLIS3504B	Public Library and Information System	DSE	3	1	0	4	60 HRS	40	60	100
BLIS3504C	Research and Technical Library and Information System	DSE	3	1	0	4	60 HRS	40	60	100
BLIS3505: Generic Elective (GE) (Opt any one course from the following or, choose from MOOCs/SWAYAM/ Multi-disciplinary from other departments of University) (Select Any One)										
BLIS3505A	Electronic Publishing	GE	3	1	0	4	60 HRS	40	60	100
BLIS3505B	Reference Management	GE	3	1	0	4	60 HRS	40	60	100
Internship/Apprenticeship/Project/Community Outreach (IAPC)										
BLIS3506	Re-Envisioning Special Library	IAPC	0	1	1	2	30 HRS	40	60	100
Skill Enhancement Course/Practical (Compulsory)										
BLIS3507	Information and Communication Technology (Practical)	SEC	0	1	1	2	30 HRS	40	60	100
BLIS3508: Mandatory Elective Non-Credit Course (MENC) equivalent to 2 credits (Opt any one course from the following) (Select Any One)										
BLIS3508A	User Studies and User Education	MENC					30 HRS			
BLIS3508B	Big data and Data Visualization	MENC					30 HRS			
					Total Credit	**24**				

Abbreviations:
DSC: Discipline Specific Core Course (Compulsory), **OEC**: Open Elective Course, **PC**: Practical Course, **SEC**: Skill Enhancement and **MENC**: Mandatory Elective Non-Credit Courses equivalent to 2 credits.

4-Year Bachelor (Honours with Research) in Library and Information Science

3rd Year, Semester VI, Level 5.5

Course Code	Course Title	Broad Category of Course	L	T	P	Total	Duration	IA	ESE	Total
Discipline Specific Core Course (DSC) (Compulsory)										
BLIS3601	Information Retrieval System	Core/DSC	3	1	0	4	60 HRS	40	60	100
BLIS3602	Web Based Information Systems and Services (Theory)	Core/DSC	3	1	0	4	60 HRS	40	60	100
BLIS3603	Content Management System	Core/DSC	3	1	0	4	60 HRS	40	60	100
BLIS3604: Discipline Specific Elective Course (Opt any one course from the following or, choose from MOOCs/SWAYAM from other departments of University) (Select Any One)										
BLIS3604A	Computer and Communication Technology	DSE	3	1	0	4	60 HRS	40	60	100
BLIS3604B	Media and Publishing Technology	DSE	3	1	0	4	60 HRS	40	60	100
BLIS3604C	Data Analytics	DSE	3	1	0	4	60 HRS	40	60	100
BLIS3605: Generic Elective (GE) (Opt any one course from the following or, choose from MOOCs/SWAYAM/ Multi-disciplinary from other departments of University) (Select Any One)										
BLIS3605A	Library and Information Services	GE	3	1	0	4	60 HRS	40	60	100
BLIS3605B	Internet Resource and Services	GE	3	1	0	4	60 HRS	40	60	100
Internship/Apprenticeship/Project/Community Outreach (IAPC)										
BLIS3606	Re-Envisioning of Law Library	IAPC	0	1	1	2	30 HRS	40	60	100
Skill Enhancement Course (SEC)										
BLIS3607	Web Based Information Systems and Services (Practice)	SEC	0	1	1	2	30 HRS	40	60	100
BLIS3608: Mandatory Elective Non-Credit Course (MENC) equivalent to 2 credits (Opt any one course from the following) (Select Any One)										
BLIS3608A	Technical Writing	MENC					30 HRS			
BLIS3608B	Disaster Management	MENC					30 HRS			
				Total Credit		24				
BLIS3609	Internship* (Exit Module)	Internship	0	1	3	4	60 HRS	40	60	100

Abbreviations:
DSC: Discipline Specific Core Course (Compulsory), **OEC**: Open Elective Course, **PC**: Practical Course, **SEC**: Skill Enhancement and **MENC**: Mandatory Elective Non-Credit Courses equivalent to 2 credits.

Students on exit shall be awarded Bachelor of Library and Information Science after securing the requisite 148 Credits (Including 4 Credits Internship) on completion of Semester VI

4-Year Bachelor (Honours with Research) in Library and Information Science

4th Year, Semester VII, Level 6

Course Code	Course Title	Broad Category of Course	Credit Distribution				Duration	IA	ESE	Total
			L	T	P	Total				
Discipline Specific Core Course (DSC) (Compulsory)										
BLIS3701	Research and Publication Ethics	Core/DSC	3	1	0	4	60 HRS	40	60	100
BLIS3702: Discipline Specific Elective Course (Opt any Three courses from the following or, choose from MOOCs/SWAYAM from other departments of University) (Select Any Three)										
BLIS3702A	Research Methodology	DSE	3	1	0	4	60 HRS	40	60	100
BLIS3702B	Digital Library	DSE	3	1	0	4	60 HRS	40	60	100
BLIS3702C	Change Management	DSE	3	1	0	4	60 HRS	40	60	100
BLIS3702D	Project Management	DSE	3	1	0	4	60 HRS	40	60	100
BLIS3702E	Indian Culture and Tradition	DSE	3	1	0	4	60 HRS	40	60	100
Academic Project/ Dissertation										
BLIS3703	Library Minor Project/Dissertation	VAC	0	1	5	6	90 HRS	40	60	100
Internship										
BLIS3704	Internship	Internship	0	1	7	8	120HRS	40	60	100
BLIS3705: Mandatory Elective Non-Credit Course (MENC) equivalent to 2 credits (Opt any one course from the following) (Select Any One)										
BLIS3705A	LIS Research	MENC					30 HRS			
BLIS3705B	Organizational Behaviour	MENC					30 HRS			
			Total Credit			**22**				

Abbreviations:
DSC: Discipline Specific Core Course (Compulsory), **OEC**: Open Elective Course, **PC**: Practical Course, **SEC**: Skill Enhancement and **MENC**: Mandatory Elective Non-Credit Courses equivalent to 2 credits.

4-Year Bachelor (Honours with Research) in Library and Information Science

4th Year, Semester VIII, Level 6

Course Code	Course Title	Broad Category of Course	L	T	P	Total	Duration	IA	ESE	Total
			Credit Distribution				

Course Code	Course Title	Broad Category of Course	L	T	P	Total	Duration	IA	ESE	Total
Discipline Specific Core Course (DSC) (Compulsory)
BLIS3801	Information Communication Technology: Application	Core/DSC	3	1	0	4	60 HRS	40	60	100
BLIS3802: Discipline Specific Elective Course (Opt any Three courses from the following or, choose from MOOCs/SWAYAM from other departments of University) (Select Any Three)
BLIS3802A	Special Library and Information System	DSE	3	1	0	4	60 HRS	40	60	100
BLIS3802B	Engineering Library and Information System	DSE	3	1	0	4	60 HRS	40	60	100
BLIS3802C	Health Science Library and Information System	DSE	3	1	0	4	60 HRS	40	60	100
BLIS3802D	Agricultural Sciences Library and Information System	DSE	3	1	0	4	60 HRS	40	60	100
BLIS3802E	Information Resource Development	DSE	3	1	0	4	60 HRS	40	60	100
Academic Project/ Dissertation
BLIS3803	Academic Project/ Dissertation	VAC	0	1	5	6	90 HRS	40	60	100
Internship
BLIS3804	Internship	Internship	0	1	7	8	120HRS	40	60	100
BLIS3805: Mandatory Elective Non-Credit Course (MENC) equivalent to 2 credits (Opt any one course from the following) (Select Any One)
BLIS3805A	Semantic Web	MENC					30 HRS			
BLIS3805B	Informatics and Scientometrics	MENC					30 HRS			
					**Total Credit**	**22**				

Abbreviations:
DSC: Discipline Specific Core Course (Compulsory), **OEC**: Open Elective Course, **PC**: Practical Course, **SEC**: Skill Enhancement and **MENC**: Mandatory Elective Non-Credit Courses equivalent to 2 credits.

Students passed with 75% and above shall be awarded ==*4-year Bachelor (Honours with Research) in Library and Information Science*== *after securing the requisite 188 credits on completion of Semester VIII*

Other Students passed below 75% shall be awarded ==*4-year Bachelor (Honours) in Library and Information Science*== *after securing the requisite 188 credits on completion of Semester VIII*

4-YEAR BACHELOR (HONOURS WITH RESEARCH) IN LIBRARY AND INFORMATION SCIENCE

I^{ST} YEAR, SEMESTER-I

Course Code	BLIS3101
Course Title	Foundation of Library and Information Sciences
Type of Paper	Core/ DSC (Discipline Specific Core Course) Compulsory
Credit	4
Teaching Hours	60

Objectives- *To acquaint the students with the basic concepts of foundation of library and information, professional associations and how to deal with.*

Outcome- *After completion of the course, students will be able to understand the concept of library, types of libraries, library legislation and their application in information science.*

Unit I: Concept of Library
➢ Meaning, Concepts, Need, Definitions and Purpose.
➢ Historical Developments of Libraries in India
➢ Types of Libraries- Academic, Public, Special and National
➢ Five Laws of Library Science and their Implications

Unit II: Professional Associations
➢ National: ILA, IASLIC, IATLIS
➢ International: IFLA, ALA, CILIP, ASLIB, SLA
➢ Role of UGC, RRRLF and UNESCO in Promotion and Development of Libraries
➢ Library Legislation and Library Acts in Indian States: The Press and Registration of Books Act: The Delivery of Books and Newspapers (Public Libraries) Act.

Unit III: Concept of Information
➢ Data, Information, Knowledge, and Wisdom.
➢ Information Life Cycle- Generation, Collection, Storage and Dissemination.
➢ Role of Information in Planning, Management, Socio-economic, Cultural, Educational and Technological Development.
➢ Information Science - Relationship with other subjects, Information Society and Knowledge Society.

Unit IV: Library and Information
➢ Library and Information Science Education in India
➢ Information Industry- Generators, Providers, and Intermediaries
➢ IPR and Legal Issues- Categories, Conventions, Treaties and Laws: Right to Information Act (RTI), Information Technology Act
➢ National Knowledge Commission: National Mission on Libraries

RECOMMENDED BOOKS

1. Bhatt, R. K. History & Development of Libraries in India (1995), Mittal Publications: New Delhi.
2. Chapman, E. A. and Lynden, F. C. Advances in Librarianship (2000), Academic Press: San Diego.
3. Chowdhury, G. G., Burton, P. F. and Mcmenemy, D. Librarianship: The Complete Introduction (2008), Neal-Schuman Publishers: New York.
4. Feather, J. The Information Society: A Study of Continuity and Change (Ed.5, 2008), Facet Publishing: London.
5. Khanna, J. K. Library and Society (1955), Research Publication: Kurukshetra.
6. Kumar, K. Library Organization (1993), Vikas: New Delhi.
7. Martin, W. J. The Information Society (1988), ASLIB: London.
8. Prasher, R. G. Information and its Communication (1991), Medallion Press: New Delhi.
9. Ranganathan, S. R. Five Laws of Library Science (Ed. 2, 1989), Sarada Ranganathan Endowment for Library Science: Bangalore.
10. Singh, S. P. Special Libraries in the Electronic Environment (2005), Bookwell: New Delhi. Department of Library & Information Science, University of Delhi.
11. Venktappaiah, V. and Madhusudhan, M. Public Library Legislation in the New Millennium (2006), Bookwell: New Delhi.

Course Code	**BLIS3102**
Course Title	Knowledge Organization I: Classification (Theory)
Type of Paper	Core/ DSC (Discipline Specific Core Course) Compulsory
Credit	4
Teaching Hours	60

Objectives- *To apprise the students with the organization of knowledge with different basic concepts and philosophies of library classification.*

Outcome- *After completion of the course, students will understand the basic concept and philosophies of library classification, and recent trends and developments in the library classification.*

Unit I: Overview of Concepts
➢ Concepts, Terminology and Need
➢ Purpose, and Functions of Library Classification
➢ Objectives of Library Classification
➢ Library Classification: Historical Perspectives

Unit II: Elements of Library Classification
➢ Types of Classification Schemes: Enumerative Classification Scheme, Analytico-Synthetic Classification Scheme
➢ General Theory of Classification
➢ Normative Principles and Postulates of Classification
➢ Canons of Classification

Unit III: Preliminaries of Colon Classification
➢ Five Fundamental Categories in Colon Classification
➢ Notation: Definition, Need, Purpose, Types and Qualities of notation
➢ Isolates: Common Isolate, Time Isolate, Space Isolate, Language Isolate
➢ Phase and Intra Facet Relation

Unit IV: Colon Classification Scheme
➢ Historical Background of Colon Classification (CC)
➢ Structure of Colon Classification (CC)
➢ Construction of Class Numbers: CC 6th edition
➢ Research in Colon Classification (CC)

RECOMMENDED BOOKS

1. Ranganathan, S.R. (1956). Colon Classification 6th edition.
2. Broughton, V. (2004). Essential Classification. London: Facet Publishing.
3. Dhiman, A. K. & Yashoda Rani. (2005). Learn Library Classification. New Delhi: Ess Ess.
4. Husain, S. (2004). Library Classification: Facets and Analysis. Delhi: B. R. Publishing.
5. Jennex, M. E. (2008). Knowledge Management: Concepts, Methodologies, Tools, and Applications. New York: Information Science Reference.
6. Kao, Mary L. (2003). Cataloguing and Classification for Library Personnel. Mumbai: Jaico.
7. Kumar, P. S. G. (2003). Knowledge Organization, Information Processing and Retrieval Theory. Delhi: B. R. Publishing.
8. Pathak, L. P. (2000). Sociological Terminology and Classification Schemes. New Delhi: Mittal Publications.
9. Ranganathan, S. R. (2006). Philosophy of Library Classification. Bangalore: Ess Ess.
10. Singh, S. (1998). Universe of Knowledge: Structure & Development. Jaipur: Raj Publishing.
11. Sood, S. P. (1998). Universe of Knowledge and Universe of Subjects. Jaipur: G. Star Printers.
12. Taylor, A. G. (2007). Introduction to Cataloguing and Classification (10th ed.). New Delhi: Atlantic.

Course Code	**BLIS3103**
Course Title	Fundamentals of Computer (Theory)
Type of Paper	Core/ DSC (Discipline Specific Core Course) Compulsory
Credit	4
Teaching Hours	60

Objectives- *To familiarize the students with the fundamentals of computer, memory, software and operating systems.*

Outcome- *After completion of the course, students will be able to understand the basic of computer, different software, devices, and operating systems etc.*

Unit I: Basic Concepts of the Computer
- Computer: Meaning and Definitions
- Evolution and Generations of Computer
- Classification of Computers
- The Computer System and Applications of Computer

Unit II: Input and Output Devices
- Keyboard, Pointing Devices, Scanning Devices and Optical Recognition Devices
- Digital Camera, Voice Recognition System, Data Acquisition Sensors, and Media Input Devices
- Display Monitors, Printers, Impact Printers and Non-impact Printers.
- Plotters, Voice Output Systems, Projectors and Terminals

Unit III: Computer Memory and Software
- Cache Memory, Primary Memory, Secondary Memory
- Static RAM (SRAM), Dynamic RAM (DRAM)
- Types of Computer Software: System Software and Application Software
- System Management Programs and Standard Application Programs

Unit IV: Operating Systems
- Operating Systems: History and Functions
- Process Management, Memory Management, File Management, Device Management, Security Management
- Types of Operating Systems, Providing User Interface, Popular Operating Systems: Windows XP, Vista, NT, Linux setting of Desktop
- Microsoft Software: MS Word System, MS Excel System, MS PowerPoint System, MS Access System, MS Publisher

RECOMMENDED BOOKS

1. Arora, A. & Bansal, S. (2000). Computer Fundamentals. New Delhi: Excel Books.
2. Basandra, S. K. (1999). Computer Today. New Delhi: Galgotia Publications.
3. Chandrasekaran, M., Govindaraju, S., Huq, A., Abdul & Narayanan, T. R. (1996). Elements of Computer Science. New Delhi: New Age International.
4. Sinha, P. K. & Sinha, P. (2007). Computer Fundamentals. New Delhi: BPB Publication.
5. Stallings, W. (2007). Computer Networking with Internet Protocols and Technology. Delhi: Pearson Education.
6. file:///C:/Users/TEMP/Downloads/FundamentalsofComputerStudies.pdf
7. https://ashishmodi.weebly.com/uploads/1/8/9/7/18970467/computer_fundamental.pdf
8. https://nibmehub.com/opac-service/pdf/read/Fundamentals%20of%20Computers.pdf

Course Code	**BLIS3104 A**
Course Title	Knowledge Society
Type of Paper	GE (Generic Elective)
Credit	4
Teaching Hours	60

Objectives: *To trace the progress of Information Society, Types of Information Institutions, Knowledge society, trends and development in learning and society.*
Outcome: *After completion of the course, students will understand the concept of Information Society, Information Institutions, Knowledge society, trends and development in learning and society.*

Unit I: Information Society
- Concepts, terminology, factors, and perceptions
- Economic Structure and Information society
- Impact of Information Society on Information Profession; Information Literacy and IT Literacy
- Information Society and Public Policy

Unit II: Information Institutions
- Evolution of Information Institutions: Growth Patterns
- Types of Information Institutions: Libraries; Documentation Centres; Information Analysis Centres; Data Centres; Referral Centres and Clearing Houses; De institutionalized Information Services
- Institution Building: Prerequisites for Building Institutions; Human Resources.
- Role of Institutions in Knowledge Based Economy

Unit III: Knowledge Society
- Knowledge Society: Features and Impact on Sectors; Life and Culture in a Knowledge Society
- Information and Knowledge Industry
- Knowledge Economy: Characteristics; Scope and Ramification
- Indian Society: Digital Divide ; Indian Planning and Targets

Unit-IV Trends and Developments
- Role of Information in Planning, Decision Making, Innovations and National Developments.
- Impact of Information and Knowledge Society on Education, Training and Research.
- Conventional vs Web Based Learning, MOOC
- Impact of Social Media on Society and National Development

RECOMMENDED BOOKS

1. Becker, J. (1979). Library Society and Technological Change. *Library Trends*. 27(3), 409-16.
2. Bell, D. (1979). The Social Framework of Information Society. In : Dertouzos, M. L. and Moses J. (eds.), Computer Age: A Twenty-Year View. Cambridge, Mass: MIT Press. pp. 163-211.
3. Gunasekara, A. (2003). Knowledge and Information Technology Management: Human and Social Perspectives. Hershey: Idea Group Publishing.
4. Lancaster, F. W. (1979). Science, Scholarship and Communication of Knowledge. *Library Trends*. 27(3), 367-88.
5. Matarazzo, J. and Connolly, S. (1999). Knowledge and Special Libraries. Boston
6. Mathew, J. R. (1980). Choosing and Automated Library System: A Planning Guide. Chicago: ALA.
7. Natarajan, G. (2000). Knowledge Management: Enabling Business Growth, New Delhi: Tata McGraw Hills.
8. Online Information Provision. London: Oxford University Press.
9. Powell, T. A. (2000). The HTML Complete Reference. 2nd ed., New Delhi: Tata McGraw Hill.
10. Raman, A. T. (2003). Knowledge Management: A Resource Book. New Delhi: Excel Books.
11. Seethrama, S. (1997). Information Consolidation and Repackaging, Frame Work, Methodology, Planning. New Delhi: Ess Ess Publication.
12. Sollumon, M. R., Marshall, G. W. and Stuart, E. (2004). Marketing Real People, Real Choices, 4th ed., NJ: Prentice Hall. Trcson, Arizona: Knowledge Computing Corporation.
13. Weingand, D. E. (1987). Marketing Planning Library and Information Services. Littleton, Colorado: Library Unlimited.

Course Code	**BLIS3104 B**
Course Title	Historical Development of Library
Type of Paper	GE (Generic Elective)
Credit	4
Teaching Hours	60

Objectives*- To trace the History and Development of Academic Libraries in India, Role of Commissions and Committees before and after Independence, Academic Libraries in India after Independence, Concept and Development of National Library in India and abroad, various plans and programmes.*

Outcome- *After completion of the course, students will understand the Objectives and Functions, History and Development of Academic Libraries in India, National Library in India and Abroad. Students will be further able to explain the Government's role in library development through policy directions, planning processes and recommendations of committees.*

Unit I: History of Academic Libraries and their Development
- Academic Library: Objectives and Functions
- History and Development of Academic Libraries in India: Taxila University, Nalanda University, Vikramshila University, Vallabhi University
- Role of Commissions and Committees before and after Independence
- Libraries in modern India (1757-1947), Academic Libraries in India after Independence

Unit II: History of National Libraries and their Development
- National Library: Definitions, Objectives and Functions
- Historical Perspectives
- Sections and Services of National Library
- Development of National Library in India, UK, USA

Unit III: History of Public Libraries and their Development
- Public Library: Definitions, Objectives and Functions
- Public Library: Historical Background
- Sections and Services of Public Library
- Development of Public Library in India, UK, USA

Unit IV: History of Special Libraries and their Development
- Special Library: Definitions, Objectives and Functions
- Special Library: Historical Background
- Sections and Services of Special Library
- Development of Special Library in India

RECOMMENDED BOOKS

1. Barman, B. (2011). Library and Society. Krishna Kanta Handiqui State Open University.
2. Day, A. (1994). The New British Library. London: Library Association Publishing. XII, 265.
3. Goodrum, C. A. (1980). Treasurers of the Library of Congress. New York: Harry Nabrams, Inc., 318.
4. Kumar, K. (1987). Library Organisation. Chapter 9. New Delhi: Vikas.
5. http://www.knowledgecommission.gov.in/recommendations/libraries.asp
6. India. (1949). University Education Commission 1948-49. Report. Vol.1. Delhi: Manager of Publications.
7. India. Ministry of Education and Youth Affairs. (1959). Report of Advisory Committee for Libraries, Delhi: Manager of Publications.
8. India. Ministry of Human Resource Development Department of Culture (1986). National Policy on Library and Information System - A Presentation. New Delhi. .
9. Planning Commission (1966). Report of the Working Group on Libraries, New Delhi.
10. Planning Commission (1984). Report of the Working Group on Modernization of Libraries and Informatics for the Seventh Five Year Plan 1985-90, New Delhi. Publication, P.110.
11. Rajagopalan, T. S. (1988). Year's Work in Indian Librarianship, Indian Library Association: Delhi.
12. Report of the Working Group of the Planning Commission on Libraries and Informatics for the Eighth Five Year Plan 1990-95. (1989). New Delhi, Department of Culture.
13. Report of the Working Group of the Planning Commission on Libraries and Informatics for the Ninth Five Year Plan 1997-2002. (1996). New Delhi, Department of Culture.
14. University Grants Commission (1959). University and College Libraries, Containing the Report of the Library Committee of the UGC and the Proceedings of the Seminar on From Publisher to Reader held on March 4-7, 1957, UGC: New Delhi.

Course Code	**BLIS3104 C**
Course Title	Human Resource Management
Type of Paper	GE (Generic Elective)
Credit	4
Teaching Hours	60

Objectives- *To discuss the Meaning, Need and Purpose of Human Resource Management (HRM), Approach, Challenges and Strategies of HRM, Human Resource Planning and Financial Planning.*

Outcome- *After completion of the course, students will understand the concept of HRM, Macro and Micro approach, Human resource planning for staffing in libraries; the sources of finance, Financial management in libraries etc.*

Unit I: Human Resource Management (HRM)
- Meaning and Objectives
- Need and Purpose
- Concept and Features
- Functions and Principles

Unit II: HRM: Approach, Challenges and Strategies
- Macro and Micro Approach
- Job Analysis, Job Description and Job Specification
- TQM, Six Sigma (Directorate of Distance Education
- Reengineering, Change Management

Unit III: Human Resource Planning
- Staffing Pattern
- Qualifications, Recruitment and Selection,
- Training and Development
- Continuing Professional Development (CPD)

Unit IV: Financial Management and Financial Planning
- Principals of Financial Management
- Source of Finance for various Libraries
- Library Expenditure
- Methods of Financial for Libraries

RECOMMENDED BOOKS

1. Kumar, P.S.G. (1988). Manpower Planning for College Libraries. Librarianship and Library Science Education, edited by Sewa Singh. New Delhi: Ess Ess Publications.
2. Narayana, G. J. (1991). Library and Information Management. New Delhi: Prentice-Hall of India
3. Ranganathan, S. R. (1959). Library Administration. 2nd ed. Bombay: Asia Publishing House.
4. Holt, G. (2002). Long-range Financial Planning for Libraries. Bottom Line: Managing Library Finances, 15(3), 125-8.
5. Mckay, D. (2003). Effective Financial Planning for Library and Information Services, 2nd ed. London: Europa.
6. Prentice, A. E. (1996). Financial Planning for Libraries: 2nd ed. Lanham: Scarecraw Press.
7. Spyers-Duran, Peter and Thomas W. Mann Jr. (1985). Financing Information Services: Problems, Changing Approaches, and New Opportunities for Academic and Research Libraries. Westport: Greenwood Press.
8. Hisrich, R. D., Peters, M. P. & Shepherd, D. A. (2008). Entrepreneurship, Sixth Edition. New Delhi: Tata McGraw-Hill
9. Charantimath P. M., (2008), Entrepreneurship Development & Small Business Enterprise, Third Edition. New Delhi: Pearson Education.
10. Desai, V. (2011). The Dynamics of Entrepreneurial Development and Management, Sixth Edition. Mumbai: Himalaya Publishing House.
11. Evans, G. E. (1983). Management Techniques for Librarians. 2nd ed. New York: Academic Press.
12. Evans, G. Edward and Ward, Patricia L. (2003). Beyond the Basics: The Management Guide for Library and Information Professionals; New York: Neal-Schuman Publishers.
13. Griffin, R. (2005). Principles of Management. 4th ed. Boston, MA: Houghton Mifflin.
14. Indira Gandhi National Open University. (1988). School of Management Studies, MS-2: Managing Men: New Delhi.

Course Code	**BLIS3105**
Course Title	Hindi Grammar and Composition (हिंदी भाषा और संप्रेषण)
Type of Paper	AEC (Ability Enhancement Course)
Credit	2
Teaching Hours	30

उद्देश्य- *निम्न इकाई का उद्देश्य है छात्रों को हिंदी भाषा के विकास का संक्षिप्त परिचय, स्वर, व्यंजन, संयुक्त व्यंजन, हिंदी ध्वनियां का वर्गीकरण से अवगत कराना।*

प्रभाव- *निम्न पाठ्यक्रम की समाप्ति के पश्चात् विद्यार्थी पूर्णतः अवगत हो पाएंगे हिंदी भाषा के विकास, हिंदी ध्वनियां वर्गीकरण, हिंदी की व्याकरणिक कोटियो से।*

ईकाई 1

हिंदी भाषा के विकास का संक्षिप्त परिचय

हिंदी ध्वनियां: स्वर, व्यंजन, संयुक्त व्यंजन

हिंदी ध्वनियां का वर्गीकरण: प्रयत्न और उच्चारण स्थान के आधार पर

हिंदी की व्याकरणिक कोटियां: संज्ञा, सर्वनाम, क्रिया,

क्रिया विशेषण, कारक, वचन और लिंग, मानक हिंदी वर्तनी

इकाई 2

हिंदी वाक्य रचना, वाक्य और उपवआक्य, वाक्य भेद, वाक्य का रुपांतरण

हिंदी में अन्वित और शब्द क्रम

विविध प्रकार के पत्र लेखन

टिप्पणी लेखन, पल्लवन, संप्रेषण और निबंध लेखन

निर्धारित पाठ्यक्रम पुस्तकें:

1. कैलाशचंद्र भाटिया, मानक हिंदी व्याकरण और रचना, एन.सी.ई.आर.टी., नई दिल्ली

2. रमाकांत अग्निहोत्री (2013), हिंदी:एक मैलिक व्याकरण, वाणी प्रकाशन, नई दिल्ली

3. रामचंद्र वर्मा, अच्छी हिंदी, लोकभारती प्रकाशन, इलाहाबाद

4. वासुदेव नंदन प्रसाद, आधुनिक हिंदी व्याकरण एवं रचना, भारती भवन, पटना

5. संस्तुत अतिरिक्त पाठ्यक्रम सामग्री

6. सूरजभान सिंह (2000), हिंदी का वाक्यात्मक व्याकरण साहित्य संस्कार, नई दिल्ली

Course Code	**BLIS3106**
Course Title	Knowledge Organisation I: Classification (Practical)
Type of Paper	PC/SEC (Practical course/ Skill Enhancement Course)
Credit	2
Teaching Hours	30

Objectives- *To familiarize the students with the practical experience of library classification using Colon Classification (CC- 6th edition).*

Outcome- *After completion of the course, students will be able to classify library resources using Colon Classification (CC- 6th edition) scheme.*

Unit I: *Colon Classification (CC- 6th edition)*

➢ Classification of Documents with Complex Subjects

A. Assigning Class Numbers representing Simple, Compound, Complex Subjects according to *Colon Classification (CC- 6th edition)* - **40 Marks**

B. Viva Voce – **20 Marks**

Course Code	**BLIS3107**
Course Title	Fundamentals of Computer (Practical)
Type of Paper	PC/SEC (Practical Course/ Skill Enhancement Course)
Credit	2
Teaching Hours	30

Objective- *To provide hands on practice in computer operating systems and different application software.*

Outcome- *After completion of the course, students will be able to work on computer operating systems and application software.*

Unit I: Operating Systems

➢ Window XP, Vista,
➢ Windows NT- Installation and Functions
➢ Linux Setting of Desktop

Unit II: Hands on experience in Application Software

➢ MS-Word
➢ MS-Excel
➢ MS-Power Point
➢ Search Engines and Web Browsing

A. Assigning Operating Systems, Hands on experience in Application Software-
   40 Marks

B. Viva Voce- **20 Marks**

RECOMMENDED BOOKS

1. Courter, G. and Marquis, A. (2005) Mastering Microsoft Excel 2002. New Delhi: BPB Publishers.
2. Cusumano, M. A. and Selby, R. W. (2003). Microsoft Secrets. London: Profile.
3. Haag, S. (2002). Microsoft Office XP. Boston: McGraw-Hill.
4. Johnson, O. and Hanson, R. (2003). Microsoft Word 2002 manual for Gregg College Keyboard & Document Processing. New York: McGraw-Hill.
5. Minasi, M. (2001). Mastering Windows XP Professional. New Delhi: BPB Publishers.
6. Norton, P. et al. (1999). Peter Norton`s complete guide to Microsoft Office 2000.
7. New Delhi: Techmedia.
8. Perspection, Inc. (2001). Microsoft Word 2002: Simply Visual. New Delhi: BPB Publishers.
9. Walkenbach, J. (2007). Microsoft Office 2007 Bible. New Delhi: Wiley Publishers.
10. Winston, W. L. (2007). Microsoft Office Excel 2007: Data Analysis and Business Modeling. New Delhi: Prentice-Hall

Course Code	**BLIS3108 A**
Course Title	Library and Information Portals
Type of Paper	VAC (Value-Added Course)
Credit	2
Teaching Hours	30

Objectives- *To enable students to understand the concept of Library and Information Portals, its importance, standards and relationship between Users and Portal, Library staff, Portal and Library Resource sharing and Networking.*

Outcome- *After completion of the course, students will understand the importance, standards and relationship between Users and Portal, Library staff and Portal, Library Resource sharing and Networking.*

Unit I: Library and Information Portal

- Library Portal its Meaning, Types and Features
- Importance and Major Elements
- Standards and Evaluation of Library Portal
- Users and Portal, Library Staff and Portal

Unit II: Library Resource Sharing and Networking

- Concept Definition and Objectives of Resource Sharing
- Areas and Levels of Resource Sharing
- Developments in India (some Case Studies): CALIBNET, DELNET, INFLIBNET
- Resource Sharing through Library Networking: Use and Basic Requirements.

RECOMMENDED BOOKS

1. Hofmann, M. A. (2011). Next Generation or Current Generation: A Study of the OPACs of 260 Academic Libraries in the USA and Canada. *Library Hi Tech 29* (2): 266–300.
2. Caplan, P. (2012). On Discovery Tools, OPACs and the Motion of Library Language. *Library Hi Tech, 30* (1), 108–115.
3. Preece, E., Barbara, G. (2002). Consortia and the Portal Challenge. *The Journal of Academic Librarianship*, *28*(3), 160-162.
4. O'Leary, Mick. Grading the Library Portals. http://www.onlinemag.net/OL2000/oleary11.html
5. Scheucher, R. (2000). Portals: A Study of Information Portals. Graz: Graz University of Technology.
6. Feather, J. and Sturges, P. (eds.). (1997). International Encyclopedia of Information and Library Science, London: Routledge.
7. Garkoti, G. K. (2001). Concise Encyclopedia of Library and Information Technology, New Delhi: Ess Ess Publications.
8. http://search.epnet.com
9. http://ww2.iicm.edu/cguetl/education/projects/rscheuch/seminar/node1.html
10. INFLIBNET Review Committee Report (1996). New Delhi: UGC.
11. Kaul, H. K. (1992). Library Networks: An Indian Experience. New Delhi: Virgo.
12. Kaul, H. K. (1996). DELNET: The First Operational Library Network in India. New Delhi: DESIDOC Bulletin of Information Technology, 16(2), pp. 23-34.
13. Kaul, H. K.(1999). Library Resource Sharing and Networks. New Delhi: Virgo Publications.
14. Kent, A. and Galvin, T. (eds). (1979). Structure and Governance of Library Networks: Proceedings of the 1978. Conference in Pittsburg. New York: Marcel Dekker.
15. Kent, A. and Galvin, T. (1977). Library Resource Sharing. New York: Dekker.
16. Kent, A. and Galvin, T. (1979). The Structure and Governance of Library Networks. New York: Marcel Dekker.
17. Kent, A. (ed) (1978). Encyclopedia of Library and Information Science. New York: Marcell.
18. Kumar, P. and Arora, O. P. (1996). Information and Library Network (INFLIBNET) Programme: New Delhi: DESIDOC Bulletin of Information Technology, 16(Z), pp. 11-22.
19. Mitra, A. C. (1996). CALIBNET on Stream: New Delhi. *DESIDOC Bulletin of Information Technology*, 16(2), 35-45.
20. Molhott, P. (1989). The Influence of Technology on Library Networking. Special Libraries, 80(8), pp.82-89. New York: SLA.
21. University Grants Commission (1988). Development of an Information and Library Network (INFLIBNET) Report of the Inter-Agency Working Group. New Delhi: UGC.

Course Code	**BLIS3108 B**
Course Title	Library 4.0
Type of Paper	VAC (Value-Added Course)
Credit	2
Teaching Hours	30

Objectives- *To understand the concept of Library 1.0 to 3.0 and 4.0 meaning, comparison between Library 1.0, 2.0 and 3.0, Library 4.0, Hardware and software requirements for Library 4.0 etc.*

Outcome*- After completion of the course, students will be able to understand the meaning of library 1.0, 2.0, 3.0 and 4.0, Characteristics and Implementation of library 4.0 etc.*

Unit I: Library 1.0 to 3.0

- ➢ Library in Digital Age
- ➢ Library 1.0
- ➢ Library 2.0
- ➢ Library 3.0

Unit II: Library 4.0

- ➢ Library 4.0: Meaning and Definitions
- ➢ Concept and Design of Library 4.0
- ➢ Hardware and Software Requirements for Library 4.0
- ➢ Characteristics and Implementation

RECOMMENDED BOOKS

1. Casey, M. Working Towards a Definition of Library 2.0. Library Crunch, October 2005.

2. Casey, M. & Savastinuk, L. Library 2.0: A Guide to Participatory Library Service. Information Today Press, 2007.

3. Casey, M. & Savastinuk, L. Library 2.0: Service for the Next-Generation Library, Library Journal, September 1, 2006.

4. Crawford, W. Library 2.0 and Library 2.0. Cites and Insights, 6, 2, January 2006.

5. Harris, C. Library 2.0 Week (Updated), Infomancy, January 2006.

6. Maness, J. Library 2.0 Theory: Web 2.0 and Its Implications for Libraries. Webology, 3(2), Article 25, 2006.

7. Aswal, R. S. (2006). Library Automation for 21st Century. New Delhi: Ess Ess Pub.

8. Kumar, PSG. (2003). Information Technology: Basic Concepts. New Delhi: BR Publishing Corporations, p9-17.

9. Kannappanawar, B. U. (2004). Problems and Prospects of Information Technology in R&D Libraries, Dr. P.S.G Kumar Festschrift Library and Information Profession in India, Vol-1, Part-2, Delhi: B. R. Publishing Corporation, p612-617.

10. Miller, P. Web 2.0: Building the New Library. Ariadne, No.45, October 2005.

11. Miller, P. and Chad, K. Do Libraries Matter?: The Rise of Library 2.0, Talis November 2005.

12. Miller, P. Library 2.0: The Challenge of Disruptive Innovation. Talis, February 2006.65

13. O'Reilly, T. Web 2.0: Compact Definition. Radar Blog, 1 October 2005. (http://radar.oreilly.com/archives/2005/10/web_20_compact_definition.html)

14. O'Reilly, T. What Is Web 2.0? OReilly.net. Posted September 30, 2005. (http://www.oreillynet.com/pub/a/oreilly/tim/news/2005/09/30/what-is-web-20.html)

15. O'Reilly, T. (2005). What is Web 2.0? Retrieved May 18, 2006. (http://www.oreillynet.com/pub/a/oreilly/tim/news/2005/09/30/what-is-web20.html#mememap)

16. Pin, W. W. Library 2.0: The New E-World Order. *Library Connect*, 5(4), 2, 2007.

17. Stephens, M. Web 2.0 and Libraries: Best Practices for Social Software. *Library Technology Reports*, 42, 4, 2006.

18. Jagdis, A. (29-30 January, 2009). Innovative Technologies for Building Libraries o Tomorrow. *Open Access to Textual and Multimedia Content: Bridging the Digital Divide* (pp. 49-65). Noida: INFLIBNET Centre, Ahmedabad and CEC, New Delhi.

19. Shukla, A. & Tripathi, A. (2012). Library 2.0: Tools & Techniques. In National Seminar on "Innovative Challenges in Information Services" (pp. 74-85). Deptt. of Library & Information Science, University of Jammu, Jammu. Published by Kutub Publications: New Delhi.

20. Noh, Y. (2015). Imagining Library. 4.0: Creating a Model for Future Libraries. *The Journal of Academic Librarianship.* http:// dx.doi.org/10.1016/j.acalib.2015.08.020.

Course Code	**BLIS3109 A**
Course Title	Open Access Initiatives
Type of Paper	MENC (Mandatory Elective Non-Credit Course)
Credit	-
Teaching Hours	30

Objectives: To understand the concept and meaning of Open Access Initiatives in India and in Developing Countries, Open access Journals: availability and usability, Open-Source Models for Artificial Intelligence, Artificial Intelligence: Emerging tool in research and development.

Outcome: After completion of the course, students will be able to understand the concept and meaning of Open Access, Open Access Initiatives in India, Open access Journals its availability and usability, Open access software for libraries, Open-Source Models for Artificial Intelligence, Artificial Intelligence: Emerging tool in research and development.

Unit I: Open Access and Possibilities

➢ Concept and Meaning of Open Access
➢ Open Access Initiatives in India
➢ Open Access Journals: Availability and Usability
➢ Open Access Initiatives in Developing Countries

Unit II: Open Access Software and Artificial Intelligence

➢ Open Access E-resources and its Significance
➢ Open Access Software for Libraries
➢ Open-Source Models for Artificial Intelligence
➢ Artificial Intelligence: Emerging Tool in Research and Development

RECOMMENDED BOOKS

1. Corrado, E. M. (2005). The Importance of Open Access, Open Source, and Open Standards for Libraries. *Issues in Science & Technology Librarianship*. 42. http://www.istl.org/05-spring/article2.html

2. Ferraro, J. (2006). Why Your Library Needs Open Source. http://liblime.com/c/welcome.html

3. Free Software Foundations Software Directory. http://www.fsf.org/

4. Hebert, E. How Open-Source Software Can Improve Our Library. http://www.degreetutor.com/library/managing-expenses/open-source-library

5. Manoj K. Eds. *Proceedings CALIBER 2007: 5th International Convention on Automation of Libraries in Education and Research Institutions*, 1-5.

6. Mackenzie, A. (2001). Open-Source Software: When is a Tool? What is a Commodity? *Science as Culture,* 10(4), 541-552.

7. Morgan, E. L. (2002). Possibilities for Open-Source Software in Libraries. *ITAL: Information Technology and Libraries.* 21(1), 12- http://www.ala.org/ala/lita/litapublications/ital/2101morgan.cfm

8. Open-Source Software. Wikipedia. Retrieved February 5, 2008, from Website: http://en.wikipedia.org/

9. Source Forge. http://sourceforge.net/

10. UNESCO Free & Open-Source Software Portal. http://www.unesco.org/

11. https://platform.openai.com/docs/models

12. https://platform.openai.com/docs/model-index-for-researchers

13. https://analyticsindiamag.com/7-open-source-models-from-openai/

Course Code	**BLIS3109 B**
Course Title	Information, Communication and Society
Type of Paper	MENC (Mandatory Elective Non-Credit Course)
Credit	-
Teaching Hours	30

Objectives- *To understand the meaning of information, communication and society, information industry, use of information in society and role of LICs in modern society.*

Outcome*- After completion of the course, students will be able to understand the meaning of information, communication and society, information industry, use of information in society and role of LICs in modern society.*

Unit I: Information and Communication

- ➢ Information: Concept, Types, Models and Theories
- ➢ Information: Channels and Barriers
- ➢ Trends in Scholarly Communication
- ➢ Information Industry

Unit II: Information and Society

- ➢ Role of Library and Information Centres in Modern Society
- ➢ Information: Characteristics, Nature, and Value
- ➢ Use of Information in Society
- ➢ Emergence of Social Networking Sites

RECOMMENDED BOOKS

1. A. V. (1985). Concise Encyclopaedia of Information Technology. 2nd ed. London: Gower. 114-115.
2. Aggarwal, B. (2002), Media and Society: Challenges and Opportunities, Concept Publishing Company, New Delhi.
3. Baker, K. (1982). The Impact of Information Technology. Amsterdam: North Holland. pp. 77-80.
4. Baran, S. J. (2007). Introduction to Mass Communication: Media Literacy and Culture Ed. 4 , McGraw Hill New York 2007.
5. Bowden, D. and Blakeman, K. (1990). Going, Automated: Implementing and Using Information Technology in Libraries and Information Units. London: ASLIB.
6. Deming, C. J. and Samuel L. B. (1988). Media in Society: Readings in Mass Communication, Scott, Foresman and Company, Glenview, Illinois, 1988.
7. Finnegan, R. (1989). Communication and Technology. Linguistics and Communication. 9(3), 107-127.
8. Kochen, M. (1981). Technology and Communication in Future. JARS. 148-157. McGraw-Hill Encyclopaedia of Science and Technology (1992): An International Reference Volume Including Index 7th ed. New York: McGraw Hill. Vol. 18, p.151.
9. Peltu (1982). Information Technology: An Overview. Taylor, H. (ed.). Information Alanagement and Organisational Change. London: ASLIB. pp.81-86.
10. Singh, P and Khanna, J. K. (1994). Information Technology in Libraries. Delhi: Pragati Publications.
11. Rajan, T. N. and Satyanarayana, R. (1987). Application of Information Technologies in India. Handbook of Libraries and Information Centres in India. New Delhi: Information Industry Publications.
12. Satyanarayana, R. (1991). Information Technology and University Libraries in India. Prasher, R.G. ed. University Libraries in India: 1980s and Beyond. New Delhi: Medallion. Pp.19-5O.
13. Satyanarayana, R. (1996). Information Technology and Its Facets. New Delhi: Mamak Publications.
14. Smith, R. L. and Cambell, B. (1982). Information Technology Revolution. New York: Longman, Stokes.
15. Straubhaar, J. and Rose R. La. (2000). Media Now: Communication Media in the Information Age, Wadsworth Thomson Learning.

IST YEAR, SEMESTER- II

Course Code	**BLIS3201**
Course Title	Management of Library and Information Centers
Type of Paper	Core/ DSC (Discipline Specific Core Course) Compulsory
Credit	4
Teaching Hours	60

Objectives- *To make the students understand the management techniques in organization of Library & Information Centers.*
Outcome- *After completion of the course, students will be able to manage the Library & Information Centers effectively.*

Unit I: Principles of Library Management
- Management: Concept, Definitions, Scope and Functions
- Principles of Management
- Schools of Management Thought: Classical Management Theory, Neo-Classical Theory, Modern Management Theory, Problems and Conflicts in Management Theories.
- Management Functions

Unit II: Physical Resource Management and Library House Keeping Operations
- Library Building: Site, Selection, Planning; Furniture, Fittings and Equipment: Standards and Specifications
- Collection Development and Management
- Acquisition Section, Technical Section, Circulation Section, Maintenance Section, Periodical Section and Reference Section; Stock Verification and Rectification: Policies and Procedures
- Preservation and Conservation

Unit III: Human Resource Management
- Human Resource Management: Organizational Structure, Job Description and Analysis
- Personal Relations: Selection, Recruitment, Training, Development, Performance
- Appraisal Motivation: Group Dynamics, Training and Development
- Resource Mobilization and Outsourcing

Unit IV: Financial Source
- Library Finance and Sources of Finance,
- Library Budgeting Techniques.
- Cost Effectiveness and Cost Benefit Analysis.
- Library Statistics and Annual Report

RECOMMENDED BOOKS

1. Bryson J. (1996). Effective Library and Information Management. Bombay: Jaico Pub. House

2. Beardwell, I. and Holden, L. (1996). Human Resource Management: A Contemporary Perspectives. London: Longman.

3. Chabhra, T. N. et. al. (2000). Management and Organization. New Delhi: Vikas.

4. Drucker, P. F. (2002). Management Challenges for the 21st century. Oxford; Butterworth Heinemann.

5. Evans, G. E. and Layzell, P. (2007). Management Basics for Information Professionals, Second Edition. London: Libraries Unlimited.

6. Johnson, P. (2009). Fundamentals of Collection Development and Management, 2nd ed. ALA

7. Kotler, P. (2003). Marketing Management. 11thed. New Delhi: Pearson.

8. Narayana, G. J. (1991). Library and Information Management. New Delhi: Prentice Hall of India.

9. Paton, R. A. (2000). Change Management. New York: Response Books.

10. Rowley, J. (2001). Information Marketing. Aldershot: Ashgate Publishing Limited.

11. Smith, J. R., M, L. G. and Kallaus N. F. (2010). Records Management. 7th ed. Southwestern, Division of Thomson Learning.

12. Stueart, R. D. and Moran (Barbara B. Moran). (2007). Library and Information Centre Management. 7th ed. London: Libraries Unlimited.

13. Stoner, J. A. F. (et. al). (1996). Management: Global Perspectives. 10thed. New York: MC Graw Hill Inc.

Course Code	**BLIS3202**
Course Title	Knowledge Organization II: Cataloguing (Theory)
Type of Paper	DSC (Discipline Specific Core Course) Compulsory
Credit	4
Teaching Hours	60

Objectives- *To accustom the students with the organization of knowledge with different basic concepts and philosophies of library cataloguing.*

Outcome- *After completion of the course, students will understand the basic concept and philosophies of library cataloguing, rules of filing entries and subject headings in cataloguing and different bibliographic standards.*

Unit I: Concept of Cataloguing

- ➢ Catalogue: Definition, Objectives
- ➢ Purpose and Functions of Catalogue
- ➢ Types and Physical Forms of Catalogue
- ➢ Introduction to: CCC, AACR-IIR

Unit II: Types of Catalogue Entries

- ➢ Kinds of Entries and their Elements of Description in CCC and AACR-IIR
- ➢ Filing of Entries: Classified and Alphabetical
- ➢ Elements of Bibliographic Description of Non-Book Material (AACR-IIR)
- ➢ Rules for Choice and Rendering of Headings in AACR –IIR

Unit III: Standards of Bibliographic Description and Record Formats

- ➢ ISBD, FRAD (Functional Requirements for Authorized Description)
- ➢ GARR (Guidelines for Authority Records and References)
- ➢ RDA (Resource Description and Access)
- ➢ ISBN (International Slandered Book Number), ISSN (International Standard Serial Number)

Unit IV: Current Trends in Library Cataloguing

- ➢ Metadata: Meaning and Purpose
- ➢ Use of Metadata and its Types
- ➢ Metadata: MARC 21
- ➢ DUBLINCORE

RECOMMENDED BOOKS

1. Andrew, P.G. (2003). Cataloguing Sheet Maps. London: Haworth Press.
2. Aswal, R. S. (2004). MARC21: Cataloging Format for 21st Century. New Delhi: Ess Ess.
3. Dhawan, K.S. (1997). Online Cataloguing Systems. New Delhi: Commonwealth Publication.
4. Dhiman, Anil K. (2004). Cataloguing of Non-book Materials. New Delhi: Ess Ess.
5. Girija Kumar & Krishan Kumar. (2004). Theory of Cataloguing. New Delhi: Vikas
6. Gredley, Ellen & Hopkinson, Alan (1990). Exchanging Bibliographic Data: MARC and other International Formats. Ottawa: ALA.
7. Hagler, Ronald & Simmons, Peter. (1991). The Bibliographic Record and Information.
8. J.S.C. ed. (2002). Anglo-American Cataloguing Rules. London: Canadian Library Association.
9. Kao, Mary L. (2003). Cataloguing and Classification for Library Personnel. Mumbai: Jaico.
10. Leigh, Gernert. (2003). A Textbook of Cataloguing. New Delhi: Dominant Publishers.
11. Mitchell, Anne M. & Surratt, Brian E. (2005). Cataloguing and Organizing Digital Sources. London: Facet Publishing.
12. Roe, Sandra K (2002). The Audio-Visual Cataloguing. New York: Haworth Press.
13. Sharma, Pandey S.K. (2001). Library Cataloguing Theory. New Delhi: Sahitya Prakashan
14. Singh, S.N. & Prasad, H.N. (1985). Cataloguing Manual AACR-II. New Delhi: B.R. Publishers.
15. Sood, S.P. (1999). Theory of Library Cataloguing. Jaipur: Raj Publishing House.
16. Taylor, A.G. (2007). Introduction to Cataloguing and Classification (10thed.). New Delhi: Atlantic.
17. Viswanathan, C. G. (2008). Cataloguing Theory and Practice. New Delhi: Ess Ess
18. https://egyankosh.ac.in/handle/123456789/32995

Course Code	**BLIS3203**
Course Title	Collection Development and Management of E-Resources (Theory)
Type of Paper	DSC (Discipline Specific Core Course) Compulsory
Credit	4
Teaching Hours	60

Objectives- *To make the students aware about collection development and different types of e-resources and their use.*

Outcome- *After completion of the course, students will be able to differentiate and utilize e-resources for their learning and research activities.*

Unit I: Electronic Resources: An Overview
➢ E-Resources: Introduction, Advantages, Disadvantages
➢ E-Resources Life Cycle
➢ Standards for E-Resources
➢ Open Access Initiatives

Unit II: Types of Electronic-Resources
➢ E-Journals & E-Books
➢ Databases, CD-ROM Databases
➢ Internet Resources
➢ Library Consortium, Criteria Evaluation of E-Resources

Unit III: Web Resources
➢ Web Resources – Introduction, Needs
➢ Science & Technology
➢ Humanities & Social Sciences
➢ Evaluation of Web Resources

Unit IV: Collection Development and Management of Electronic Resources
➢ Collection Development of E-Resources
➢ Policy for E-Resources
➢ Licence and Agreement for Procurement of E-Resources
➢ Case Study of Digital Library

RECOMMENDED BOOKS

1. Frank Rennie & Robin Mason. (2011). e-Learning and Social Networking Handbook: Resources for Higher Education.
2. James E. Bobick and G. L. Berard (2011). Science and Technology Resources: A Guide for Information Professionals and Researchers (Library and Information Science Text Series).
3. Karin Wikoff. (2011). Electronic Resources Management in the Academic Library: A Professional Guide.
4. Peter Clayton and G. E. Gorman. (2001). Managing Information Resources in Libraries: Collection Management in Theory and Practice.
5. Ruth C. Clark & Richard E. Mayer. (2011). e-Learning and the Science of Instruction: Proven Guidelines for Consumers and Designers of Multimedia Learning (Essential Knowledge Resource).

Course Code	**BLIS3205**
Course Title	English Grammar and Composition
Type of Paper	AEC (Ability Enhancement Course)
Credit	2
Teaching Hours	30

Objectives- *The course is designed to provide the students a formal knowledge of English Grammar. Enable students to have command over sentence construction in English. Enable students to have competence in both spoken and written English. Train students to use the language with confidence and without committing errors.*

Outcome- *After completion of the course, students will be able to understand and enhance their skills in Sentence structure, Speech, Paragraph Writing, Comprehension, Summarizing and Paraphrasing.*

Unit I: Sentences and Narration

➢ Types of Sentences
➢ Parts of Speech
➢ Active and Passive Voice
➢ Direct and Indirect Speech

Unit II: Clauses and Composition

➢ Idioms and Phrases
➢ Synonyms and Antonyms
➢ Paragraph Writing and Comprehension
➢ Summary and Paraphrasing

RECOMMENDED BOOKS

1. Prism: Spoken and Written Communication
2. Crystal, David. (1985). Rediscover Grammar with David Crystal. Longman
3. Bakshi, R. N. A Course in English Grammar. Orient Longman
4. Close, R. A. Reference Grammar for Students of English. Orient Longman
5. Hewings, M. (1999). Advanced English Grammar. Cambridge University Press
6. Murphy, Raymond: Essential English Grammar Answers
7. Aroor, Usha (Ed.) Word Master Learner's Dictionary of Modern English. Orient Longman
8. Krishnaswamy, N. Modern English – A Book of Grammar, Usage & Composition. Macmillan India Ltd.

Course Code	**BLIS3206**
Course Title	Knowledge Organization II: Cataloguing (Practical)
Type of Paper	SEC (Skill Enhancement Course)
Credit	2
Teaching Hours	30

Objectives- *To acquaint the students with the cataloguing practical of various types of library resources using* Classified Catalogue Code (CCC- Latest edition).

Outcome- *After completion of the course, students will be able to catalogue library resources by using* Classified Catalogue Code (CCC- Latest edition) *and use of subject headings.*

Unit I: Classified Catalogue Code (CCC- Latest edition)

➢ Works of Single and Shared Authorship
➢ Works of Mixed Responsibilities
➢ Editorial Publications, Series Publications Multi-volume, Works & Pseudonymous
➢ Works of Corporate Authorship (Government, Institution and Conference), Periodical Publications
➢ Ordinary and Artificial Composite Books

A) Assigning Classified Catalogue Code (CCC- Latest edition)- **40 Marks**

B) Viva Voce - **20 Marks**

Course Code	**BLIS3207**
Course Title	Collection Development and Management of E-Resources (Practical)
Type of Paper	SEC (Skill Enhancement Course)
Credit	2
Teaching Hours	30

Objectives- *To acquaint the students with the collection development and management of e-resources in various types of libraries.*

Outcome- *After completion of the course, students will be able to learn the practical works or tasks performed in the process of collection development* and management of e-resources.

Unit I: Access of E-resources Through the Internet or Locally

- ➢ E-Journals
- ➢ E-Books
- ➢ Full-Text (aggregated) Databases
- ➢ Indexing and Abstracting Databases
- ➢ Reference Databases (Biographies, Dictionaries, Directories, Encyclopedias, etc.)
- ➢ Numeric and Statistical Databases
- ➢ E-Images
- ➢ E-Audio/Visual Resources

Unit II: Technical Practicability

- ➢ Availability: Remote Access, Stand-Alone Access.
- ➢ Authentication: IP [Internet Protocol] Filtering or Login Password.
- ➢ Storage and Maintenance: Remote Hosting, Local Hosting.
- ➢ Platforms which Facilitate Access to E-Resources.

Course Code	**BLIS3209 A**
Course Title	Internet of Things (IoT)
Type of Paper	MENC (Mandatory Elective Non-Credit Course)
Credit	-
Teaching Hours	30

Objectives- *This program aims to train students to be equipped with a solid theoretical foundation, systematic professional knowledge, and strong practical skills in the IoT Platform.*

Outcome- *After completion of the course, students will be able to understand the vision of IoT from a global perspective, understand its applications, determine its market perspective, using gateways, devices, and data management, building a state of art architecture in IoT and its applications in commercial building automation.*

Unit I: Internet of Things (IoT)
- Internet of Things: Meaning and its Importance
- Elements of an IoT Ecosystem
- Trends and Implications
- Web of Things

Unit II: IoT Networking Core
- Technologies Involved in IoT Development
- Internet Web and Networking Technologies
- Infrastructure, Overview of IoT
- Wireless Networking Equipment and Configurations

Unit III: IoT Architecture
- IoT Architecture
- Remote Monitoring and Sensing
- Remote Controlling and Performance Analysis
- Sensors and Sensor Node

Unit IV: IoT Application Development & Security
- Application Protocols
- HTML & CSS
- Security and Privacy
- IoT Applications for Industry

RECOMMENDED BOOKS

1. Vijay Madisetti and Arshdeep Bahga, "Internet of Things (A Hands-on-Approach)", 1st Edition, VPT, 2014
2. Adrian McEwen, Hakim Cassimally, "Designing the Internet of Things", November 2013, John Wiley and Sons.
3. Francis da Costa, "Rethinking the Internet of Things: A Scalable Approach to Connecting Everything", 1st Edition, Apress Publications, 2013
4. CunoPfister, Getting Started with the Internet of Things, O"Reilly Media, 2011, ISBN: 978-14493- 9357-1
5. Dr. Ovidiu Vermesan, Dr. Peter Friess "Internet of Things: Converging Technologies for Smart Environments and Integrated Ecosystems", River Publishers
6. Zach Shelby, Carsten Bormann, "6LoWPAN: The Wireless Embedded Internet", John Wiley and Sons.

Course Code	**BLIS3209 B**
Course Title	RFID Implementation
Type of Paper	MENC (Mandatory Elective Non-Credit Course)
Credit	-
Teaching Hours	30

Objectives- *This program provides students' knowledge of Radio Frequency Identification (RFID) Technology, its theoretical aspects and implementation and functions of RFID in libraries.*

Outcome- *After completion of this course, students will have the knowledge of the Radio Frequency Identification (RFID). Students will learn the structure, operation, standards, Components of RFID systems, tags, reader, advantages and limitations of RFID technology. Also, the instructions on how to plan, design and implement a solution using RFID technology.*

Unit I: Fundamentals and Operating Principles of RFID
- Introduction and History of RFID
- RFID Tag Components: Tag Antenna, Integrated Circuits, Substrate
- RFID Tag Types: Passive Tags, Active Tags
- Zigbee and Wi-Fi Tags

Unit II: Fundamentals and Operating Principles of Sensors
- Types of Sensors
- Use of Sensors
- Basics of Sensor Design
- Wireless Sensors and Wireless Sensor Network

Unit III: Design of RFID-Enabled Sensor
- RFID Antenna Design
- Antenna Basics and Dipole
- Passive RFID Antenna
- Active RFID-Enabled Sensor

Unit IV: RFID Applications
- Short Range RFID Applications
- Long Range RFID Applications

RECOMMENDED BOOKS

1. V. Daniel Hunt, Alber Puglia, Mike Puglia, "RFID: A guide for radio frequency identification", Wiley & Sons, Inc., Publication, 2011
2. Amin Rida, LiYang, Manos Tentzeris, "RFID-Enabled Sensor Design and Applications". 2nd Edition, ARTECH HOUSE, 2010.
3. Steven Shepard, "Radio Frequency Identification", 1st Edition, McGraw Hill, 2011.
4. Jung, K.& Lee, S (2015). A Systematic Review of RFID applications and Diffusion: Key Areas and Public Policy Issues. *Journal of Open Innovation: Technology, Market and Complexity, 1*(9), 1-19.
5. Kaur, M. et.al. (2011). RFID Technology Principles, Advantages, Limitations & its applications. *International Journal of Computer and Electronical Engineering, 3*(1), 151-157.
6. Krishnan, V. (2021). Application of RFID Technology in Library: A view. *Materials Today: Proceeding.*
7. Mittal, A. et. al. (2010). RFID: A Complete Security System for Libraries. *Emerging Technologies and Changing Dimensions of Libraries and Information Services*, 327-331.
8. Nagalakshmi, R. (2017). Authentication of RFID technology in academic libraries: A survey. *LIS Digest, 1*(1).
9. Pal, K. & Sharma, A.K. (2017). Implementation of RFID technology in library. *International Journal of Digital Library Services*, *7*(2), *70-79.*
10. Rajeswari, S. M. (2017). RFID Technology: Mechanism and Usage in Library. *International Journal of Library and Information Studies, 7*(4), 130-135.
11. Sammi, S. & Singh, I. (2020). A Comprehensive Review of RFID Technology. *International Journal of Advance Science and Technology, 29*(10), 5977-5986.
12. Singh, R. & Sultana S. (2010). RFID: A System or Library & Information Centre. Proceeding of 5th ILA Conference on Library and Information Science in Digital Era, January 21-24, 174-178.
13. Syad, S. (2005). Use of RFID Technology in libraries: A New Approach to Circulation, Tracking, Inventorying and Security of Library Materials. *Library Philosophy and Practice, 8*(1), 1-10.
14. Want, R. (2006). An Introduction to RFID technology. *IEEE Pervasive Comput 5*(1), 25-33.

Course Code	**BLIS3210**
Course Title	Internship
Type of Paper	Internship
Credit	4
Teaching Hours	60

Objectives-
  i. *To train the students in practical librarianship in the working environment of the library by deputing them in different types of libraries for a period of one month; and*
  ii. *To train them in preparing the Internship Report in a prescribed format based on their practical training and learning.*

Outcome- *After completion of the course, students will be able to works in Library without any hesitation.*

The work for paper shall start in the beginning of the SECOND semester for which each student will be allotted a topic for writing the Report. The Report will be submitted at the end of SECOND semester on the date to be decided by the Department.

  A. Report on Internship Programme – **40 Marks**

  B. Viva-Voce – **20 Marks**

IIND YEAR, SEMESTER-III

Course Code	**BLIS3301**
Course Title	Information Source, System and Services
Type of Paper	Core/ DSC (Discipline Specific Core Course) Compulsory
Credit	4
Teaching Hours	60

Objectives- *To make the students understand different types of information source, systems and services with their specific features and characteristics.*

Outcome- *After completion of the course, students will be acquainted to provide differenttype of information services in library & information centers.*

Unit I: Sources of Information
- Information Sources: Meaning, Definition, Importance, Nature, and Characteristics
- Sources of Information: Primary Information Source, Secondary Information Sources, Tertiary Information Sources
- Primary, Secondary and Tertiary Information Sources (Print and Electronic)
- Criteria for Evaluation of Reference Sources

Unit II: Electronic Information Resources
- Electronic Resources: Meaning. Need and Types
- Subject Gateways, Web Portals, Bulletin Boards and Discussion Forums/Groups
- Databases: Bibliographic, Numeric, Full text Databases and Open Access Databases
- Evaluation of Web Resources

Unit III: Information Services
- Information Services, Types of Information Services: Reference Service, Referral Service, Bibliographic Service, Translation Service, Indexing & Abstracting Services, Reprographic Service, CAS/Alerting Service, SDI.
- Internet based Information Services Library 2.0 and 3.0: Concepts, Characteristics & Components
- Synchronous Communication & Content Delivery: Instant Messaging, RSS Feeds, Streaming Media, Podcasts, Vodcasts, SMS Enquiry Service
- Collaborative Publishing Tools: Blogs & Wikis, Collaborative Service Platforms: Social Networks, Tagging, Social Bookmarking

Unit IV: Information System and Programmes
- Categories of Information Systems: Libraries, Documentation Centres, Information Clearing Houses, Referral Centres, Information Analysis Centres, Databanks
- Different kinds of Information Systems: Decision Support Systems, MIS, GIS
- Information Systems and Programmes at the Global Level

RECOMMENDED BOOKS

1. Guha, B. (1999). Documentation and Information Services (2nded.). Calcutta: World Press.
2. Krishan Kumar. (1984). Reference Service. New Delhi: Vikash Publication.
3. Lancaster, F. W. (1998). Indexing and Abstracting in Theory and Practice. Illinois: University of Illinois.
4. Panley, E. P. C. (1979). Technical Paper Writing Today. Boston: Houghton.
5. Ranganathan, S. R. (1991). Reference Service. Bangalore: Sarada Ranganathan Endowment.
6. Seetharama, S. (1997). Information Consolidation and Repackaging Framework, Methodology, Planning. New Delhi: Ess Ess Publications.
7. Walford, A. J. (1968-70). Guide to Reference Materials (3 Vols). London: Library Association.
8. Gupta, Sangita. (2012). Innovative Challenges in Information Services. New Delhi: Kutub Publications.

Course Code	**BLIS3302**
Course Title	Knowledge Management
Type of Paper	Core/ DSC (Discipline Specific Core Course) Compulsory
Credit	4
Teaching Hours	60

Objectives- *To make the students aware of need and concepts of knowledge management in library.*

Outcome- *After completion of the course, students will be aware of the application of knowledge management in libraries & information centres.*

Unit I: Basics of Knowledge Management
- ➢ Concept of Knowledge
- ➢ Types of Knowledge: Explicit Knowledge and Implicit Knowledge
- ➢ Concept and Scope of Knowledge Management
- ➢ Knowledge Management Cycle

Unit II: Knowledge Management: Creation & Tools
- ➢ Knowledge Creation, Access, Transfer and Sharing
- ➢ Knowledge Tools
- ➢ Knowledge Networks
- ➢ Knowledge in Decision Making

Unit III: Pre-requisites of Knowledge Management
- ➢ Sharing of Expertise
- ➢ Knowledge Mapping
- ➢ Knowledge Worker

Unit IV: Trends and Challenges of Knowledge Management
- ➢ KM Initiatives in Indian Organization
- ➢ Software for Knowledge Management
- ➢ Pioneers in Knowledge Management
- ➢ Advances in Knowledge Management

RECOMMENDED BOOKS

1. Anderson, Paul. (2012). Web 2.0 and beyond: principles and technologies. Boca Raton: CRC Press
2. Cappelli, Peter. (2010). The performance effects of it-enabled knowledge management practices. Cambridge, MA; National Bureau of Economic Research
3. Carl Frappaolo. (2006). Knowledge Management. Amazon.com
4. Christee Gabour Atwood. (2009). Knowledge Management Basics (ASTD Training Basics Series.Amazon.com
5. Donald Hislop. (2009). Knowledge Management in organization.Amazon.com
6. Elias M. Awad. (2010). Knowledge Management: Updated 2nd Edition (2010 Second Edition). Amazon.com.
7. Easterby-Smith, Mark & Lyles, Marjorie A. (2011). Handbook of organizational learning and knowledge management. Chichester, West Sussex : Wiley,
8. Guilin, Guangxi Zhuangzu Zizhiqu. (2006). Advances in knowledge acquisition and management; Pacific Rim Knowledge Acquisition Workshop, PKAW. New York: Springer,
9. Irma Becerra-Fernandez and Rajiv Sabherwal. (2010). Knowledge Management System and Processes.Amazon.com
10. J. Paul Peter and James H. Donnelly. (2010). Marketing Management: Knowledge and Skills, 10th Edition. Amazon.com
11. Jay Liebowitz. (2012). Knowledge Management Handbook: Collaboration and Social Networking, Second Edition .Amazon.com
12. Kimiz Dalkir and Jay Liebowitz. (2011). Knowledge Management Theory & Practice.Amazon.com

Course Code	**BLIS3303**
Course Title	Knowledge Organization III: Advanced Classification (Theory)
Type of Paper	Core/ DSC (Discipline Specific Core Course) Compulsory
Credit	4
Teaching Hours	60

Objectives- *To apprise the students with the organization of knowledge with different basic concepts and philosophies of library classification.*

Outcome- *After completion of the course, students will understand the basic concept and philosophies of library classification, functions of different classification schemes available and recent trends and developments in the subject.*

Unit I: Elements of Library Classification
- Mapping of Universe of subjects in major schemes of Library classification
- Species of Classification Schemes
- Modes of Formation of Subjects

Unit II: Classification Theory and Approaches
- Postulational Approach and System approach to classification
- Facet Analysis and Facet Sequence
- Phase Relation, Common Isolates
- Devices in Library Classification

Unit III: Traditional and Special Classification Schemes
- Library of Congress Classification (LCC)
- Bibliographic Classification (BC)
- Expansive Classification (EC)
- Broad System of Ordering (BSO)

Unit IV: Contemporary Issues in Classification
- Current Trends in Library Classification
- Technological issues in Library Classification
- Online Classification and OCLC
- Basic Competencies required in Knowledge Organisation

RECOMMENDED BOOKS

1. Broughton, Vanda. (2004). Essential Classification. London: Facet Publishing.
2. Dhiman, A. K. & Yashoda Rani. (2005). Learn Library Classification. New Delhi: Ess Ess.
3. Husain, Sabahat. (2004). Library Classification: Facets and Analysis. Delhi: B.R. Publishing.
4. Jennex, Murray E. (2008). Knowledge Management: Concepts, Methodologies, Tools and Applications. New York: Information Science Reference.
5. Kao, Mary L. (2003). Cataloguing and Classification for Library Personnel. Mumbai: Jaico.
6. Kumar, P. S. G. (2003). Knowledge Organization, Information Processing and Retrieval Theory. Delhi: B. R. Publishing.
7. Pathak, L. P. (2000). Sociological Terminology and Classification Schemes. New Delhi: Mittal Publications.
8. Ranganathan, S. R. (2006). Philosophy of Library Classification. Bangalore:Ess Ess.
9. Singh, Sonal. (1998). Universe of Knowledge: Structure & Development.Jaipur: Raj Publishing.
10. Sood, S. P. (1998). Universe of Knowledge and Universe of Subjects. Jaipur: G. Star Printers.
11. Taylor, A. G. (2007). Introduction to Cataloguing and Classification (10thed.). New Delhi: Atlantic.

Course Code	**BLIS3304 A**
Course Title	Remote Access of Electronic Resources
Type of Paper	DSE (Discipline Specific Elective Course)
Credit	4
Teaching Hours	60

Objectives- *To make the students aware about electronic resources and remote access.*

Outcome- *After completion of the course, students will be able to understand the concepts of electronic resources and remote access.*

Unit I: Electronic Resources: An Overview

- ➢ E-Resources: Introduction, Advantages and Disadvantages
- ➢ E-Resources Life Cycle
- ➢ Standards for E-Resources
- ➢ Open Access Initiatives

Unit II: Types of Electronic Resources

- ➢ E-Journals & E-Books
- ➢ Databases, CD-ROM Databases
- ➢ Internet Resources
- ➢ Library Consortium, Criteria Evaluation of E-Resources

Unit III: Remote Access

- ➢ Remote Access: Meaning, Definitions, Need and Purpose.
- ➢ Historical Background of Remote Access
- ➢ Advantages and Disadvantages of Remote Access
- ➢ Protocols and Rules for Remote Access

Unit IV: Remote Access Platforms and Tools

- ➢ Proxy Server, Virtual Private network (VPN)
- ➢ EZproxy, Library Discovery System
- ➢ TeamViewer, AnyDesk, LogNeln, MyLOFT
- ➢ Knimbus, RemoteXS, Refread and INFED

RECOMMENDED BOOKS

1. Harris, Robert (2000). Evaluating Internet Research Sources. VirtualSalt. (http://www.virtualsalt.com/evalu8it.htm).
2. IGNOU. PGDLAN. MLI-005. Internet Resources. New Delhi: IGNOU.
3. Frank Rennie & Robin Mason. (2011). e-Learning and Social Networking Handbook: Resources for Higher Education. Amazon.com
4. James E. Bobick and G. L. Berard (2011). Science and Technology Resources: A Guide for Information Professionals and Researchers (Library and Information Science Text Series). Amazon.com
5. Karin Wikoff. (2011). Electronic Resources Management in the Academic Library: A Professional Guide. Amazon.com
6. https://digitalcommons.unl.edu/cgi/viewcontent.cgi?article=14315&context=libphilprac
7. Dixit , Gopal Prasad. (2018). Off Campus Access to Licensed E-resources of Central Library Central University of Karnataka Through Knimbus: A Study. International Journal of Creative Research Thoughts, 6(1), 1004-1008.
8. Choukimath, Puttaraj A. (2011). Remote Access to Electronic Resources Using Virtual Private Network (Vpn) At Tiss Library. ICDLEIMC
9. Akpunonu , Anulika. (2022). Influence of Electronic Reference on Users' Satisfaction in Academic Libraries. Library Philosophy and Practice (e-journal). 6882.
10. Akwang, Nse E. PhD, CLN. (2022). A Study on the Use of Academic Social Networking Sites (Asnss) By Professional Librarians In Public Universities In Akwa Ibom State, Nigeria. Library Philosophy and Practice (e-journal). 6962.
11. Millie Jackson, Ayse Gider, Celeste Feather, Kelly Smith, Amy Fry, Jamene Brooks-Kieffer, Christopher D. Vidas and Rose Nelson.(2007). Electronic Resources & Libraries, 2nd Annual Conference 2007. Library Hi Tech News, 4-17.
12. Singh, S. P. (2003). Evaluation of Electronic Reference Sources. DESIDOC Bulletin of Information Technology, 23(2), 42-47.

Course Code	**BLIS3304 B**
Course Title	Library Consortia
Type of Paper	DSE (Discipline Specific Elective Course)
Credit	4
Teaching Hours	60

Objectives- *To make the students aware about library consortia, consortia in India and other countries.*

Outcomes- *After completion of the course, students will be able to understand library consortia in detail and know about various consortia in India and abroad.*

Unit I: Introduction to Library Consortia

- Library Consortia: Meaning, Definitions and Need.
- Growth of Library Consortia
- Objectives of Library Consortia
- Advantages of Library Consortia

Unit II: National Consortia

- INDEST, ICMR e-Consortia
- FORSA, SPACENET, CeRA
- UGC-INFONET, HELINET, NKRC
- CSIR E-Journals Consortium, IIM Consortium

Unit III: International Consortia

- IDAL, CARLI
- KERIS, SANLIC
- CONCERT, EIFL
- CURL, ICOLC

Unit IV: National and International Library & Information Networks

- Library & Information Networks in India: INFLIBNET, DELNET, CALIBNET
- ADINET, MYLIBNET, MALIBNET, BONET
- International Library Networks: OCLC, RLG, JISC, JANET and CALIS

RECOMMENDED BOOKS

1. Ball, David (2002). Consortium Purchase of Electronic Resources by Public Libraries in England: Museums. Libraries and Archives, UK, available at - chttpc//:www.peoplesnetwork.gov.uk/documents/reI78-01.pdf>

2. Biswas, Band Dasgupta, S. (2001) Opportunities for Libraries in Managing and Resource Sharing through Consortia: A New Challenge for Indian Librarians.

3. Chand, Prakash and Mahesh, G. (2003). CSIR E-Journals Consortium. In: Proceedings of the Annual Conference of the Society for Information Science. Roorkee: Indian Institute of Technology.

4. Evans, Edwards (2002). Management Issues of Consortia. Part Two. Library Management. 23(617), 275.

5. Hiremath, Uma (2001). Electronic Consortia: Resource Sharing in the Digital Age. Collection Building. 20(2), 80-87.

6. http://paniit.iitd.ac.in/indest

7. http://web.inflibnet.ac.in/econsortialindex.htm.

8. http://www.curl.ac. uk/.

9. http://www.keris.or.kr/.

10. http://www.rguhs.ac.in/hn/newhell.htm.

11. http://www.stic.gov.tw/fdb.

12. INFLlBNET Newsletter, October - 2003 to March 2004, 9 (4) and lOO).

13. Kaul, H. K. (1999). Library Resource Sharing and Networks. New Delhi: Virgo.

14. Landesman, M and Reenen, J. Van (2000). Consortia vs. Reform: Creating Congruence. The Journal of Electronic Publishing. 6(2).

15. Nfila, Reason Baathuli and Darko-Ampem, Kwasi (~002). Developments in Academic Library Consortia from the 1960s through to 2000: A Review of the Literature. Library Management. 23(4/5), 203-212.

16. Sayers, Richard (2004). A Smart Place in the Sun: Future-proofing the Queensland Government Libraries Consortium. Library Management. 25(617), 283.

17. Balakrishnan, Shyam. Networking and the Future of Libraries. New Delhi: Ess Ess, 2000.

18. Basandra, Suresh K. Computer Today. New Delhi: Galgotia, 1999.

19. Kaul, S. Information resource sharing models in developing countries: a network emerging from the World Bank supported environmental management capacity building project.

20. National Commission on Libraries and Information Science. Towards a National Progress for Libraries and Information Services: Goals for Action. Washington: Govt. Printing Office, 1975.

Course Code	**BLIS3304 C**
Course Title	Library and Information Science Profession
Type of Paper	DSE (Discipline Specific Elective Course)
Credit	4
Teaching Hours	60

Objectives- *To make the students aware about LIS profession and categories of LIS professionals.*
Outcomes- *After completion of the course, students will be able to understand the LIS profession in detail and various categories of LIS professionals.*

Unit I: Introduction to Library & Information Science Profession

- ➢ Profession: Introduction, Definitions, Characteristics
- ➢ Profession and Occupation
- ➢ LIS as a profession
- ➢ Evolution of the LIS profession

Unit II: Transformation of the LIS Profession

- ➢ Custodian, Librarian
- ➢ Documentation Officer
- ➢ Information Officer/Scientist
- ➢ Digital Librarian

Unit III: Categories of LIS Professionals

- ➢ Library Administrator, Classifier, Cataloguer, Classificationist
- ➢ Reference Librarian, Thesaurus Designer, Bibliographer
- ➢ LIS Teacher, Bibliometrician
- ➢ Content Developer

Unit IV: LIS Profession in India

- ➢ Ancient Period
- ➢ Medieval Period
- ➢ British India
- ➢ Independent India

RECOMMENDED BOOKS

1. Bhattacharya, G. Information Sciences. Calcutta: IASLIC, 1978. Print.
2. Butler, P. "Librarianship as a Profession". Library Quarterly 21 (1951): 237. Print.
3. Chopra, H.R., U.C. Sharma and M.K. Srivastava. "Library Science and its Facets". 2 vols. Delhi: Ess Ess, 1998. 572. Print.
4. Dakhole, P.S. "Librarianship as a Profession". Library and Information Profession in India: Dr P.S.G. Kumar Festschrif. Vol.1, Part 1. Reflections and Redemptions Ed C. P. Vashisht and M. P. Satija, et al. Delhi: B. R. Publishing Corporation, 2004. Print.
5. Danton, J. Periam. "A Plea for a Philosophy of Librarianship". Library Quarterly 4(1934): 545. Print.
6. Fricke, Martin; Mathiesen, Kay; and Fallis, Don. "The Ethical Presuppositions behind the Library Bill of Rights." Library Quarterly 29 (2000): 468-91. Print.
7. Greenwood, T. "Professional Ethics", New Library World 82. 973 (1981): 123-5.
8. Kaula, P.N. "Library Science Today. Ranganathan Festschrift". BIS, 1965. Print.

Course Code	**BLIS3305**
Course Title	Principal Hindi
Type of Paper	AEC (Ability Enhancement Course)
Credit	2
Teaching Hours	30

उद्देश्य- निम्न इकाई का उद्देश्य है छात्रों को **प्रयोजनमूलक** हिंदी *और पारिभाषिक शब्दावली* का संक्षिप्त परिचय, *कार्यालयी हिंदी के प्रकार्य* से अवगत कराना।

प्रभाव- निम्न पाठ्यक्रम की समाप्ति के पश्चात् विद्यार्थी पूर्णतः **प्रयोजनमूलक** हिंदी *और पारिभाषिक शब्दावली* का संक्षिप्त परिचय, *कार्यालयी हिंदी के प्रकार्य* से अवगत हो पाएंगे ।

इकाई -1 प्रयोजनमूलक हिंदी और पारिभाषिक शब्दावली

* प्रयोजनमूलक हिंदी: अर्थ और स्वरूप
* प्रयोजनमूलक हिंदी के विविध रूप
* हिंदी की संवैधानिक स्थिति
* हिंदी की पारिभाषिक शब्दावली: स्वरूप, महत्व, निर्माण के सिद्धान्त

इकाई - 2 कार्यालयी हिंदी के प्रकार्य

* कार्यालयी पत्राचार का सामान्य परिचय
* कार्यालयी पत्राचार के प्रमुख प्रकार: ज्ञापन, अनुस्मारक, परिपत्र, अधिसूचना, आदेश, निविदा, सूचना
* टिप्पणी, प्रारुपण, संक्षेपण, पल्लवन, प्रतिवेदन, कार्यसूची, कार्यवृत, पृष्ठांकन

निर्धारित पाठ्यक्रम पुस्तकें:

1. डॉ. रवीन्द्रनाथ श्रीवास्तव सं., "प्रयोजनमूलक हिंदी", केन्द्रीय हिंदी संस्थान, आगरा

2. डॉ. विनोद गोदरे, "प्रयोजनमूलक हिंदी", वाणी प्रकाशन, दिल्ली

3. डॉ. रीतारानी पालीवाल, "प्रयोजनमूलक हिंदी : अर्थ, क्षेत्र और विस्तार" लेख (अनुवाद की सामाजिक भूमिका पुस्तक में संकलित) प्रकाशक - सचिन प्रकाशन, दिल्ली

Course Code	**BLIS3306**
Course Title	Re-Envisioning Public Library
Type of Paper	IAPC (Internship/Apprenticeship/Project/Community Outreach)
Credit	2
Teaching Hours	30

Objectives- *To make the students aware of new perspectives and strategies for designing, managing, and enhancing public libraries in various contexts.*

Outcome- *After completion of the course, students will be able to understand the importance of public libraries with a new perspective.*

Unit I: Understanding Public Libraries in Contemporary Contexts

- ➢ Public Library: Definitions, Characteristics, Functions
- ➢ Historical Evolution and Relevance in the Digital Age
- ➢ Specific Needs and User Communities of Public Libraries
- ➢ Digital Transformation and its Impact on Public Libraries
- ➢ Challenges in Collection Development, Resource Management, and Information Dissemination

Unit II: Innovating and Enhancing Public Libraries

- ➢ Designing Flexible and Collaborative Spaces
- ➢ Curating and Promoting Digital Collections
- ➢ Strategies for Effective Content Discovery and Access
- ➢ Knowledge Sharing, Documentation, and Retention within Public Libraries
- ➢ Collaborative Approaches to Content Creation and Dissemination

Course Code	**BLIS3307**
Course Title	Knowledge Organisation III: Advanced Classification (Practical)
Type of Paper	PC/SEC (Skill Enhancement Course)
Credit	2
Teaching Hours	30

Objectives- *To familiarize the students with the practical experience of library classification by using Dewey Decimal Classification Scheme (DDC) latest edition.*
Outcome- *After completion of the course, students will be able to classify library resources by using Dewey Decimal Classification Scheme (DDC) latest edition.*

Unit I: Dewey Decimal Classification Scheme (DDC) latest edition.

Classification of Documents with Compound and Complex Subjects

  A. Assigning Class Numbers representing Simple, Compound, Complex Subjects according to *Dewey Decimal Classification Scheme (DDC) latest edition*- **40 Marks**
  B. Viva Voce – **20 Marks**

Course Code	**BLIS3308 A**
Course Title	Professional Ethics in LIS
Type of Paper	VAC (Value-Added Course)
Credit	2
Teaching Hours	30

Objectives- *To make the students aware of librarianship as a profession and professional ethics in librarianship.*

Outcome- *After completion of the course, students will be able to understand the librarianship as a profession and professional ethics in librarianship.*

Unit I: Librarianship as a Profession

- ➢ Introduction, General Ethics
- ➢ Profession, Professional, Professionalism
- ➢ Professional Ethics
- ➢ Librarianship as a Profession

Unit II: Professional Ethics in Librarianship

- ➢ US Experience
- ➢ UK Experience
- ➢ Indian Situations
- ➢ Issues and Problems

RECOMMENDED BOOKS

1. Librarianship as a profession, egyankosh
2. IASLIC. Towards a Code of Professional Ethics. Papers presented at the llth National Seminar, Osmania University, Hyderabad, 1984
3. FINKS Lee W: Professional Ethics. Encyclopedia of Library and Information Science. V 52, Supplement 15, p 301-321
4. KING S S: Organizational Ethics: Encyclopedia of Library and Information Science. V 56; Supplement 19, p 307 - 318

Course Code	**BLIS3308 B**
Course Title	Cloud Computing
Type of Paper	VAC (Value-Added Course)
Credit	2
Teaching Hours	30

Objectives- *To make the students familiarize with cloud computing its architecture and resource sharing.*

Outcome- *After completion of the course, students will be able to understand the concepts of cloud computing, resource sharing etc.*

Unit I: Cloud Computing Fundamentals and Virtualization

  - ➢ Cloud Computing: Concepts, Definitions and Purpose
  - ➢ Cloud Deployment Models, Service Models and Cloud Architecture
  - ➢ Resource Virtualization
  - ➢ Applications of Cloud Computing

Unit II: Resource Provisioning, Load Balancing and Security

  - ➢ Resource Pooling, Sharing, and Provisioning.
  - ➢ Scaling
  - ➢ Load Balancing
  - ➢ Security Issues in Cloud Computing

RECOMMENDED BOOKS

1. Cloud computing and IoT, Egyankosh.
2. R. Buyya, C. Vecchiola, and S. T. Selvi, S. T. (2013). Mastering cloud computing: foundations and applications programming. Newnes.
3. S. A. Babu, M. J. Hareesh, J. P. Martin, S. Cherian, and Y. Sastri, "System Performance Evaluation of Para Virtualization, Container Virtualization, and Full Virtualization Using Xen, OpenVZ, and XenServer," 2014 Fourth International Conference on Advances in Computing and Communications, 2014, pp. 247-250, doi: 10.1109/ICACC.2014.66.
4. https://www.ibm.com/in-en/cloud/learn/hypervisors#toc-type-1-vs--Ik2a8-2y
5. https://www.vmware.com/topics/glossary/content/hypervisor.html
6. https://www.sciencedirect.com/topics/computerscience/fullvirtualization#:~:text=Full%20virtualization%20is%20a%20virtualization,run%20in%20each%20individual%20VM.

Course Code	**BLIS3309 A**
Course Title	Personality Development and Communication Skills
Type of Paper	MENC (Mandatory Elective Non-Credit Course)
Credit	-
Teaching Hours	30

Objectives- *To make the students familiarize with personality and communication skills.*
Outcome- *After completion of the course, students will be able to develop their personality and communication skills effectively.*

Unit I: Personality and its Characteristics

- ➢ Personality: Meaning, Definitions and Characteristics
- ➢ Personality: Types and Traits
- ➢ Social, Soft and Influencing Skill Development
- ➢ Attitude and Appearance
- ➢ Time and Stress Management Skill

Unit II: Communication Skill

- ➢ Professional Communication Skills (Verbal and Non-Verbal)
- ➢ Communication: Understanding the Audience, Presentation, Body Language
- ➢ Interpersonal Skills and Ability to Listening Skill.
- ➢ Technical Communication Skills
- ➢ Editorial Tools

RECOMMENDED BOOKS

1. Aitchison, J. (1988). Teach Yourself Linguistics. Hodder and Stoughton.
2. Booth, P. F. (1991). Report Writing. 2nd ed. Kings Ripton: Huntington.
3. Chandler, B. E. (1983). Technical Writer's Handbook. Ohio: American Society forMetals.
4. Chandra, A. and Saxena, T. P. (1979). Style Manual. New Delhi: Metropolitan Books.
5. Cooper, B. M. (1986). Writing Technical Reports. New York: Penguin.
6. Gerson, S. J. and Gerson, S. M. (1992). Technical Writing, Process and Product. Englewood Cliff's: Prentice Hall.
7. Gladis, S. D. (1993). Write type, personality types and writing styles. Amherst, Mass.: Human Resource Development Press.
8. Gupta, S.(2009). Personality development and communication skills. Jaipur, India: Book Enclave.
9. Harrison, C. (1980). Readability in the Classroom. Cambridge: Cambridge University Press.
10. Huckin, T. N. and Olsen, L. A. (1991). Technical Writing and Professional Communication for Non-Native Speakers of English. 2nded. New York: McGraw-Hill.
11. James, G. Gray. (1986). Strategies and Skills of Technical Presentations. Westfort: Greenwood Press.
12. Karten, N. (2010). Presentation skills for technical professionals achieving excellence. Ely: IT Governance Publications.
13. Masters, L. A., Wallace, H. R., & Harwood, L. (2011). Personal development for life and work (10th ed.). Australia: South-Western Carnage Learning.
14. McMurry, J. H. (2002). The etiquette advantage: personal skills for social success. Wilmington, NC: Stellar Publications.
15. Sherman, T. A. and Johnson, S. S. (1990). Modern Technical Writing. 5th ed. Englewood Cliff's: Prentice Hall.
16. Swain, D. V. and Swain, J. R. (1991). The Issue of Audience. In Scripting for the New Audio-Visual Technologies.2nd ed. Chapter 4. Boston: Focal Press.

Course Code	**BLIS3309 B**
Course Title	Professional Ethics
Type of Paper	MENC (Mandatory Elective Non-Credit Course)
Credit	-
Teaching Hours	30

Objectives- *To enable the students to imbibe and internalize the Values and Ethical Behavior in the personal and Professional lives.*

Outcome*- After completion of the course, students will understand the importance of Values and Ethics in their Personal lives and professional career.*

Unit I: Introduction to Professional Ethics

- ➢ Basic concepts Governing Ethics
- ➢ Personal & Professional Ethics, Ethical Dilemmas
- ➢ Life Skills, Emotional Intelligence
- ➢ Thoughts of Ethics, Value Education
- ➢ Dimensions of Ethics, Profession and professionalism, Professional Associations, Professional Risks
- ➢ Professional Accountabilities, Professional Success, Ethics and Profession.

Unit II: Basic Theories

- ➢ Basic Ethical Principles, Moral Developments
- ➢ Deontology, Utilitarianism
- ➢ Virtue Theory, Rights Theory, Casuist Theory
- ➢ Moral Absolution, Moral Rationalism, Moral Pluralism
- ➢ Ethical Egoism, Feminist Consequentialism

RECOMMENDED BOOKS

1. Professional Ethics: R. Subramanian, Oxford University Press, 2015.
2. Business Ethics concepts & Cases: Manuel G Velasquez, 6e, PHI, 2008.
3. Kultgen, John, (1988). Ethics and Professionalism. Philadelphia: University of Pennsylvania Press.
4. Naagarazan, RS. (2006). A Textbook on Professional Ethics and Human Values. Delhi: New Age International Publishers.
5. Rachels, James (2007). The Elements of Moral Philosophy. The McGraw Hill Companies, US.
6. Subramanian. R. (2017). Professional Ethics Includes Human Values. Oxford University Press.

IIND YEAR, SEMESTER-IV

Course Code	**BLIS3401**
Course Title	Preservation & Conservation of Library Materials
Type of Paper	Core/DSC (Discipline Specific Core Course) Compulsory
Credit	4
Teaching Hours	60

Objectives- *To appraise need and techniques of preservation and conservation of library materials.*

Outcome*- After completion of the course, students will be able to understand various preservation and conservation techniques of library materials.*

Unit I: Basics of Preservation and Conservation: Overview
  - ➢ Preservation and Conservation: Historical Development, Need and Purpose
  - ➢ Preservation of Print Materials: Books, Periodicals, Pamphlets
  - ➢ Digital Preservation

Unit II: Preservation of Non-Print Materials
  - ➢ Palm Leaves
  - ➢ Manuscripts
  - ➢ Films
  - ➢ Pen Drive, DVD

Unit III: Hazards and Control Measures to Library Materials
  - ➢ Environmental Factor (Temperature, Humidity, Water, Light, Air Pollution, Smoke, Dust, etc.)
  - ➢ Chemical Factors
  - ➢ Biological Factors

Unit IV: Binding
  - ➢ Types of Binding of Library Materials
  - ➢ Binding Material and their Varieties
  - ➢ Binding Process
  - ➢ Standards for Library Binding

RECOMMENDED BOOKS

1. Casey, J. P. (1982). Paper making. New York: Interscience Publishers
2. Corduroy, John. (1978). Book binding for beginners. London: Thomas and Hudson
3. Dasgupta, Kalpana, ed. (1988). Conservation of library materials. Calcutta: National Library
4. Durean, J. M. & Clements, D. W. G. (1986). Principles of the preservation of library materials. Hague: IFLA
5. Gabriel, M. & Ladd, D. (1980). The microfilm revolution in libraries. Greenwich: JAI Press
6. Harvey, Poss. (1993). Preservation in libraries: a reader. London: R R Bowker
7. Hans, K. J. (1958). Sign, symbol, and script. London: George Allen & Unwin
8. Sharma, R. G. (1979). Pandulipi sampadan kala. Delhi: Prabhat Prakashan
9. Singh, R. S. (1993). Conservation of documents in libraries, archives, and museums. Delhi

Course Code	**BLIS3402**
Course Title	Knowledge Organisation IV: Advanced Cataloguing (Theory)
Type of Paper	Core/ DSC (Discipline Specific Core Course) Compulsory
Credit	4
Teaching Hours	60

Objectives- *To accustom the students with the organization of knowledge with different basic concepts and philosophies of library cataloguing.*

Outcome- *After completion of the course, students will understand the basic concepts and philosophies of library cataloguing, rules of filing entries and subject headings in cataloguing and different bibliographic standards.*

Unit I: Cataloguing Principles

- ➢ Introduction to Catalogue
- ➢ Principles of Cataloguing
- ➢ Ranganathan's Canons of Cataloguing
- ➢ History and Development of Library Catalogue Codes

Unit II: Variations in Cataloguing

- ➢ Centralized Cataloguing
- ➢ Cataloguing-in-Publication
- ➢ Pre-Natal Cataloguing
- ➢ Machine Formats: MARC and CCF

Unit III: Vocabulary Control and Subject Cataloguing

- ➢ Subject Cataloguing: Meaning, Purpose and Objectives
- ➢ Subject Heading Lists: Sears List & LCSH
- ➢ Vocabulary Control: Meaning, Purpose and Objectives
- ➢ Thesaurus: Definitions, Functions, Types and Structure

Unit IV: Recent Trends in Cataloguing

- ➢ Cataloguing on the Internet
- ➢ Computerized and Online (OPAC) Catalogue
- ➢ TEI (Text Encoding Initiative), METS

RECOMMENDED BOOKS

1. https://ia601402.us.archive.org/35/items/in.ernet.dli.2015.126240/2015.126240.Classified-Catalogue-Code-Ed-5th_text.pdf
2. https://egyankosh.ac.in/bitstream/123456789/33132/1/Unit-10.pdf
3. https://egyankosh.ac.in/bitstream/123456789/33131/1/Unit-11.pdf
4. https://egyankosh.ac.in/handle/123456789/32995
5. Andrew, P. G. (2003). Cataloguing Sheet Maps. Landon: Haworth Press.
6. Aswal, R. S. (2004). MARC 21: Cataloging Format for 21st Century. New Delhi: Ess Ess.
7. Dhawan, K. S. (1997). Online Cataloguing Systems. New Delhi: Commonwealth Publication.
8. Dhiman, Anil K. (2004). Cataloguing of Non-book Materials. New Delhi: Ess Ess.
9. Girija Kumar & Krishan Kumar.(2004). Theory of Cataloguing. New Delhi: Vikas
10. Gredley, Ellen & Hopkinson, Alan (1990). Exchanging Bibliographic Data: MARC and other International Formats. Ottawa: ALA.
11. Hagler, Ronald & Simmons, Peter. (1991). The Bibliographic Record and Information.
12. Kao, Mary L. (2003). Cataloguing and Classification for Library Personnel. Mumbai: Jaico.
13. Leigh, Gernert. (2003). A Textbook of Cataloguing. New Delhi: Dominant Publishers.
14. Mitchell, Anne M. & Surratt, Brian E. (2005). Cataloguing and Organizing Digital Sources. London: Facet Publishing.
15. Roe, Sandra K (2002).The Audio-Visual Cataloguing. New York: Haworth Press.
16. Sharma, Pandey S. K. (2001). Library Cataloguing Theory. New Delhi: Sahitya Prakashan
17. Sood, S. P. (1999). Theory of Library Cataloguing. Jaipur: Raj Publishing House.
18. Taylor, A. G. (2007). Introduction to Cataloguing and Classification (10thed.). New Delhi: Atlantic.
19. Viswanathan, C. G. (2008). Cataloguing Theory and Practice. New Delhi: Ess Ess

Course Code	**BLIS3403**
Course Title	Library Automation and Networking (Theory)
Type of Paper	Core/ DSC (Discipline Specific Core Course) Compulsory
Credit	4
Teaching Hours	60

Objectives- *To enable students in understanding about Library Automation and Digital Library Software.*

Outcome*- After completion of the course, students will be able to work on Library Automation Software, database creation and Digital Library software for various Digital Library works.*

Unit I: Library Automation

- ➢ Library Automation: Planning and Implementation
- ➢ Historical Perspective of Library Automation
- ➢ In-house Operations: Acquisition, Processing; Circulation
- ➢ Serial Control, Cataloguing, Maintenance and OPAC

Unit II: Library Housekeeping Operations

- ➢ Procedural Model of Library House Keeping Operations
- ➢ Bibliographic Standards: MARC; CCF; MARC 21; Dublin Core
- ➢ Inter Library Loan, Document Delivery

Unit III: Library Automation Softwares

- ➢ KOHA: Installation, Configuration and Functions
- ➢ SOUL: Installation, Configuration and Functions
- ➢ e-Granthalaya: Installation, Configuration and Functions

Unit IV: Library Automation Software Packages and Evaluation of Software Package

- ➢ Open-Source Software Packages: Evergreen; NewGenLib; PMB
- ➢ Commercial Software Packages: Libsys; SLIM; Virtual ILS
- ➢ Freeware ILS: ABCD; WEBLIS
- ➢ Parameters of Evaluation of Software Packages: Generic Parameters of Evaluation; Specific Parameters of Evaluation for Commercial ILSs; Specific Parameters of Evaluation for Freeware and Open-Source ILSs

RECOMMENDED BOOKS

1. Arora, Ashok & Bansal, Shefali.(2000). Computer Fundamentals. New Delhi: Excel Books.
2. Date, C. J. (2003). An Introduction to Database Systems. Pearson Education. New Delhi : BPB Publications,
3. Jain, Madhulika& Jain, Satish.(2007). Introduction to Database Management Systems. New Delhi : BPB Publication.
4. Kumar, P. S. G. (2004). Information and Communication. Delhi : B. R. Publication.
5. Matthew, Neil & Stones, Richard.(2008). Beginning Linux Programming. New Delhi: Wiley India.
6. Prasher, R. G. (2003). Information and its Communication. Ludhiana: Medallion Press.
7. Ramesh Babu, B. & Gopalakrishnan, S. (2004). Information, Communication, Library and Community Development. Delhi : B. R. Publishing.
8. Sinha, Pradeep Kumar & Sinha, Priti. (2007). Computer Fundamentals. New Delhi : BPB Publication.
9. Stallings, William. (2007). Computer Networking with Internet Protocols and Technology. Delhi: Pearson Education.
10. Sybex. (2007). Linux Complete. BPB Publications, 2007: New Delhi.
11. Cohn, John M. (2001). Planning for Integrated Systems and Technologies: A Howto-do-it Manual for Librarians. London: Neal-Schuman.
12. Cooper, Michael D. (1996). Design of Library Automation Systems: File Structures, Data Structures, and Tools. New York: Wiley & Sons.
13. Mishra, R.K. (1999). Library Software Selection: An Analysis. IASLIC Bulletin. 44(3); 125-132.
14. Rayward, W.B. (2002). A History of Computer Applications in Libraries: Prolegomena.
15. Reynold, D. (1985). Library Automation: Issues and Applications. London: Bowker.
16. Rowley, J. (1998). The Electronic Library. London: Library Association Publishing.
17. Yates, R. (1996). Library Automation: The Way Forward? Program. 30(3), 239-53.

Course Code	**BLIS3404 A**
Course Title	Institutional Repository
Type of Paper	DSE (Discipline Specific Elective Course)
Credit	4
Teaching Hours	60

Objectives*- To make the students aware of the institutional repository & maintenance and implementation.*

Outcome- *After completion of the course, students will learn institutional repository software, implementation maintenance.*

Unit I: Introduction of Institutional Repository

- ➢ Institutional Repository: Meaning, Definitions, Importance and Types
- ➢ Role of Institutional Repository in Scholarly Communication
- ➢ Structure of Institutional Repository

Unit II: Implementation and Maintenance of Institutional Repository

- ➢ Software for Institutional Repository
- ➢ Hardware for Institutional Repository
- ➢ Technical Skills
- ➢ Difficulties in Implementation & Maintenance

Unit III: Digital Repository Management

- ➢ Digital Right Management
- ➢ Copyright & License Issues
- ➢ Creative Commons
- ➢ Institutional Repository Initiatives in India

Unit IV: Institutional Repository Software

- ➢ DSpace: Administration: Content Organization; E-people, Workflow
- ➢ Eprints: Administration: Content Organization; E-people, Workflow
- ➢ Harvesting: OAI-PMH and OAI-ORE

RECOMMENDED BOOKS

1. Marianne A. Buehler (2014). Demystifying the Institutional Repository for Success. Chandos Publishing.
2. Jones, Richard et al. (2006). *The Institutional Repository*. Oxford: Chandos Publishing.
3. Judith, Andrews & Derek, Law. (2004). *Digital Libraries*. Ashgate. 198.
4. Lucy A. Tedd & Andrew Large. (2004). *Digital Libraries : Principles and Practice in a Global Environment*. G.G. Saur.
5. Purcell, Aaron .(2016). *Digital Library Programs for Libraries and Archives: Developing, Managing, and Sustaining Unique Digital Collections*. ALA

Course Code	**BLIS3404 B**
Course Title	Intellectual Property Rights and Copyrights
Type of Paper	DSE (Discipline Specific Elective Course)
Credit	4
Teaching Hours	60

Objective- *To make the students aware of the intellectual property & copyright concepts andother issues related to patents.*

Outcome*- After completion of the course, students will be aware of IPR & copyright, copyright violation and infringement.*

Unit I: Intellectual Property and Rights

- ➢ Intellectual Property: Concept, Genesis, Development and Categories
- ➢ Enforcement of Intellectual Property Rights
- ➢ Role of WIPO
- ➢ Emerging Issues in Intellectual Property Rights

Unit II: Copyright

- ➢ Copyright: Meaning and Scope
- ➢ Rights to Copyright Owner
- ➢ Licensing of Copyright
- ➢ Copyright Laws and Related Issues

Unit III: Patents

- ➢ Patent: Concept and Scope
- ➢ Patent Laws in India
- ➢ Patent Laws in Abroad
- ➢ Violation and Infringement, Violation, and Infringement - India - USA – UK

Unit IV: Copyright& Patent in Digital Era

- ➢ Intellectual Property Digital Era: Meaning and Development
- ➢ IPR Acts
- ➢ Application of IPR in Electronic Environment
- ➢ Copyright of Electronic Resources

RECOMMENDED BOOKS

1. Ajit Parulekar and Sarita D' Souza, Indian Patents Law – Legal & Business Implications; Macmillan India Ltd, 2006.
2. Andrew Murra. (2010).Information Technology Law: The law and society. Amazon.com
3. B. L. Wadhera; Law Relating to Patents, Trade Marks, Copyright, Designs & Geographical Indications; University Law Publishing Pvt. Ltd., India, 2000
4. Bourgagaize, Jewell and Buiser, Biotechnology: Demystfying the Concepts, Wesley Longman, USA, 2000
5. Carlos M. Correa and Abdulqawi A. Yusuf. (2008). Intellectual Property and International Trade: The TRIPS Agreement (Second Edition. Amazon.com
6. D. Balasubramaniam, C.F.A. Bryce, K. Dharmalingam, J. Green and K. Jayaraman, Concepts in Biotechnology, University Press (Orient Longman Ltd.)., 2002
7. Deborah E. Bouchoux. (2012). Intellectual Property: The Law of Trademarks, Copyrights, Patents, and Trade Secrets .Amazon.com.
8. Federico Munari and Raffaele Oriani. (2011). The Economic Valuation of Patents: Methods and Applications (New Horizons in Intellectual Property Series) . Amazon.com
9. Fishman, Stephen. (2008). The copyright handbook: what every writer needs to know. Berkeley, CA: Nolo.
10. Freeman, Lee & Peace, A. Graham. (2005). Information ethics : privacy and intellectual property. Hershey, PA : Information Science Pub.
11. Jessica Litman. (2001). Digital Copyright: Protecting Intellectual Property on the Internet. Amazon.com
12. John Grant, Charlie Ashworth and Henri J. A. Charmasson. (2008). Patents, Registered Designs, Trade Marks and Copyright For Dummies. Amazon.com
13. Jude C. Umeh. (2008). The World beyond Digital Rights Management . Amazon.com
14. P.Narayanan; Law of Copyright and Industrial Designs; Eastern Law House, Delhi, 2010 P.N. Cheremisinoff, R.P. Ouellette and R M Bartholomew, Biotechnology Applications and Research, Technomic Publishing Co., Inc. USA, 1985

Course Code	**BLIS3404 C**
Course Title	Database Design and Management
Type of Paper	DSE (Discipline Specific Elective Course)
Credit	4
Teaching Hours	60

Objectives- *To make the students aware of the database design and management concepts and other issues related to database.*

Outcome- *After completion of the course, students will be aware of database design and management.*

Unit I: Database Design and Management

- ➢ Database: Concept, Genesis, Development and Categories
- ➢ Entity and Column, Entity in Detail, Column in Detail
- ➢ The Three-Levels of ER Model, Key and Relationship
- ➢ Database View, Triggers and Stored Procedures

Unit II: Database Engineering

- ➢ Database Engineering: Meaning and Scope
- ➢ Generate Database
- ➢ Patch Database
- ➢ Reverse Database to ERD

Unit III: Database Software

- ➢ Microsoft SQL server, Oracle
- ➢ MySQL, PostgreSQL
- ➢ MagoB
- ➢ Amazon Web Services

Unit IV: Database Programming

- ➢ SQL
- ➢ Python, R
- ➢ PHP
- ➢ C#

RECOMMENDED BOOKS

1. Hansen, Gary W. & Hansen, James V. (1992). Database Design and Management. Los Angeles :Pearson.
2. Captain, Fidel (2013). Six-Step Relational Database Design™ (Second Edition): A step by step approach to relational database design and development. Kindle Edition.
3. Reis, Joe & Housley, Matt (2022). Fundamentals of Data Engineering. O'Reilly Media, Inc.
4. Campbell, Laine & Majors, Charity (2017). Database Reliability Engineering. O'Reilly Media, Inc.
5. Eagar, Gareth (2021). Data Engineering with AWS: Learn how to design and build cloud-based data transformation pipelines using AWS. Kindle Edition.
6. Petkovic, Dusan (2020). Microsoft SQL Server 2019: A Beginner's Guide. McGraw Hill.

Course Code	**BLIS3405**
Course Title	English Comprehension and Writing Skills
Type of Paper	AEC (Ability Enhancement Course)
Credit	2
Teaching Hours	30

Objectives- *The make the students skilled with English comprehension and writing skills.*

Outcome- *After completion of the course, students will be able to improve vocabulary, learn professional writing skills and understand English comprehensions.*

Unit I: English Comprehension

➢ Comprehension: Nature, Scope and Definitions
➢ Prose, Poetic, News Passage
➢ Note making
➢ Paraphrasing

Unit II: Writing Skills

➢ Nature and Scope of Writing Skills
➢ Purpose and Functions of Writing Skills
➢ Types of Writing: Paragraph, Essay, Precis

RECOMMENDED BOOKS

1. https://www.rvskvv.net/images/Communication-Skills_20.04.2020.pdf
2. https://egyankosh.ac.in/bitstream/123456789/41770/1/Unit-3.pdf
3. N. Krishnaswamy and T. Sriraman, Current English for Colleges, Macmillan India Limited.
4. George Orwell, War Minus the shooting - The sporting spirit.
5. Wren and Martin, High School English Grammar & Composition, S. Chand and Co. Publication.
6. SP Robbin, Organizational Behaviour, Pearson Prentice Hall.
7. Nichols, J.N. (1980). Using paragraph frames to help remedial high school students with written assignment. Journal of Reading, 24, 228-31.
8. Arnold, M.T. (1981). Teaching theme, thesis, topic sentences and clinchers as related concepts. Journal of Reading, 24, 373-376.
9. Thomson A. J. and A.V. Martinet, A Practical English Grammar, Oxford University Press, 1986
10. R. Fernández Carmona, English Grammar… with exercises, Longman, 2000
11. R. Murphy, English Grammar in Use, Cambridge University Press 1990
12. Harrison, Grammar Spectrum 2, Oxford University Press, 1996

Course Code	**BLIS3406**
Course Title	Re-Envisioning Academic Library
Type of Paper	IAPC (Internship/Apprenticeship/Project/Community Outreach)
Credit	2
Teaching Hours	30

Objectives- *To make the students aware of new perspectives and strategies for designing, managing, and enhancing academic libraries in various contexts.*

Outcome- *After completion of the course, students will be able to understand the importance of academic libraries with a new perspective.*

Unit I: Understanding Academic Libraries in Contemporary Contexts

- ➢ Academic Library: Definitions, Characteristics and Functions
- ➢ Historical Evolution
- ➢ Relevance in the Digital Age
- ➢ Digital Transformation and its Impact
- ➢ Challenges in Collection Development, Resource Management, and Information Dissemination

Unit II: Innovating and Enhancing Academic Libraries

- ➢ Academic Library: Designing and Collaborative Spaces
- ➢ Curating and promoting Digital Collection
- ➢ Strategies for effective Web Discovery Scale
- ➢ Knowledge Sharing and Documentation

RECOMMENDED BOOKS

1. https://files.eric.ed.gov/fulltext/EJ1213958.pdf

2. https://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/S000021LI/P000203/M002007/ET/1463134935P11_M9_et.pdf

3. file:///C:/Users/TEMP/Downloads/Unit-1%20(2).pdf

4. https://www.ala.org/rt/sites/ala.org.rt/files/content/popularresources/Chpt6AcadLibs.pdf

5. https://files.eric.ed.gov/fulltext/ED571288.pdf

6. https://egyankosh.ac.in/handle/123456789/4819

Course Code	**BLIS3407**
Course Title	Knowledge Organisation IV: Advanced Cataloguing (Practical)
Type of Paper	SEC (Skill Enhancement Course)
Credit	2
Teaching Hours	30

Objectives- *To acquaint the students with cataloguing practical of various types of library resources using AACR-2 revised.*

Outcome- *After completion of the course, students will be able to catalogue library resources using AACR-2 revised effectively.*

Unit I: AACR-2 Revised

  ➢ Works of Single and Shared Authorship
  ➢ Works of Mixed Responsibilities
  ➢ Editorial Publications, Series Publications, Multi-volume
  ➢ Works & Pseudonymous, Works of Corporate Authorship
  ➢ Works of Conflict of Authorship
  ➢ Periodical Publications Ordinary and Artificial Composite Books

  A. Assigning Cataloguing on AACR-2 revised 40 Marks.

  B. Viva Voce- **20 Marks.**

Course Code	**BLIS3408 A**
Course Title	Mobile-Based Library Services
Type of Paper	VAC (Value-Added Course)
Credit	2
Teaching Hours	30

Objectives- To make the students aware of mobile based library services.

Outcome- After completion of the course, students will be able to understand mobile based library services with examples.

Unit I: Mobile-Based Library Services

➢ Mobile Technology: Introduction and Definitions
➢ Evolution of Mobile based Library Services
➢ Mobile Technology and Libraries
➢ Mobile OPAC, Mobile Databases, Mobile Library Website

Unit II: Mobile-Based Library Tools

➢ Mobile Library Apps
➢ Mobile Library Instructions, Augmented
➢ SMS Alerts, Geo-Location
➢ Reference Enquiry
➢ Library News, Blogs, and Events

RECOMMENDED BOOKS

1. https://library.iitd.ac.in/arpit_2020-2021/Week%208%20-%20Module%2020%20-%20PPT-%20Mobile%20Based%20Library%20Services.pdf

2. https://www.brookings.edu/wp-content/uploads/2016/07/chapter-One.pdf

3. http://www.cs.yorku.ca/~jarek/courses/6421/F12/presentations/Mobile-Databases_%20Presentation.pdf

4. https://egyankosh.ac.in/bitstream/123456789/26325/1/Unit-9.pdf

5. Pasquinelli, A. (2002). Digital Library Technology Trends (White Paper available at http://144.16.72.189/is214/is214-2003-01-04/ digital_library_trends-020923.pdf). Santa Clara,California: Sun Microsystems.

6. Poulter, Alan and Tseng, Gwyneth (1999). The Library and Information Professional's Guide to

    the World Wide Web. London: Library Association.

7. Poulter, Alan, Hiom, Debra and Tseng, Gwyneth (2000). The Library and Information Professional's Guide to the Internet. London: Library Association.

Course Code	**BLIS3408 B**
Course Title	Intelligent Library Search and Federated Search
Type of Paper	VAC (Value-Added Course)
Credit	2
Teaching Hours	30

Objectives- *To make the students aware of intelligent library search and federated search.*

Outcome- *After completion of the course, students will be able to understand and use intelligent library search and federated search effectively.*

Unit I: Intelligent Library Search

- ➢ Intelligent Library Search: Introduction, Concept, Need
- ➢ Advantages and Disadvantages of Intelligent Library Search
- ➢ Traditional Vs Intelligent Library Search
- ➢ Application of Intelligent Search in Libraries: AI, Machine Learning, Discovery Services

Unit II: Federated Search

- ➢ Federated Search: Introduction, Definition, Need
- ➢ Federated Search Vs Meta Search
- ➢ Types of Federated Search
- ➢ Benefits and Challenges of Federated Search

RECOMMENDED BOOKS

1. https://library.iitd.ac.in/arpit_2019-2020/Week%206-%20Additional%20Module-%20Designing%20the%20Intelligent%20Library%20Search%20Service.pdf.pdf
2. https://ir.inflibnet.ac.in:8443/ir/bitstream/1944/1233/1/27.pdf

Course Code	**BLIS3409 A**
Course Title	Academic Integrity and Plagiarism
Type of Paper	MENC (Mandatory Elective Non-Credit Course)
Credit	2
Teaching Hours	30

Objectives- *To make the students aware of plagiarism and promote understanding of academic integrity concepts, policies, etc.*

Outcome- *After completion of the course, students will be able to understand plagiarism and academic integrity in detail.*

Unit I: Academic Integrity

- ➢ Academic Integrity: Meaning, Definitions, Purpose
- ➢ Academic Integrity: Importance and Challenges
- ➢ The Fundamental Values: Honesty, Trust, Fairness, Respect, Responsibility, Courage
- ➢ Developing cultures of Academic Integrity
- ➢ Relevance of Academic Integrity in Educational, and Professional

Unit II: Plagiarism

- ➢ Plagiarism: Meaning, Definition and its Levels
- ➢ Types of Plagiarism and its Consequences
- ➢ Plagiarism Tools: Open-Source and Proprietary
- ➢ UGC Regulations for Plagiarism

RECOMMENDED BOOKS

1. https://www.chapman.edu/academics/academic-integrity/_files/the-fundamental-values-of-academic-integrity.pdf

2. https://www.ufv.ca/media/assets/counselling/Plagarism+and+Academic+Integrity.pdf

3. https://hrmars.com/papers_submitted/8189/plagiarism-and-academic-integrity.pdf

4. https://cdn.dal.ca/content/dam/dalhousie/pdf/healthprofessions/AcademicIntegrity/Syllabus%20Statement%20on%20Academic%20integrity.pdf

5. https://www.cccua.edu/student-life/educational_resource_center_pdfs/2023.Academic.Integrity.syllabus..pdf

6. https://content.bridgepointeducation.com/curriculum/file/a71aaf31-7529-49ea-a879-6a04f8bcc1b0/1/Common%20Types%20of%20Plagiarism.pdf

7. https://qualifications.pearson.com/content/dam/pdf/Support/Quality%20Assurance/Plagiarism-Factsheet.pdf

Course Code	**BLIS3409 B**
Course Title	Information Security
Type of Paper	MENC (Mandatory Elective Non-Credit Course)
Credit	2
Teaching Hours	30

Objectives- *To make the students aware of information security, cryptography, internet, and web security.*

Outcome- *After completion of the course, students will be able to understand information security, current trends in security, etc.*

Unit I: Information Security and Authentication

- ➢ Information Security: Principles
- ➢ Services and Attacks, Functional requirements of Security
- ➢ Current Trends in Security
- ➢ Types of Authentications: Biometric Authentication and Third-Party Authentication using KDC and Kerberos
- ➢ Mutual Authentication, Reflection Attack

Unit II: Cryptography

- ➢ Cryptography: Concept, Symmetric and Asymmetric Cryptography.
- ➢ Mathematics of Cryptography: Modular Arithmetic Additive Inverse, Multiplicative Inverse, Euclidean Algorithm and Extended Euclidean Algorithm
- ➢ Stream Cipher and Block Cipher, Concept of Confusion and Diffusion

RECOMMENDED BOOKS

1. https://nvlpubs.nist.gov/nistpubs/SpecialPublications/NIST.SP.800-12r1.pdf
2. https://engineering.futureuniversity.com/BOOKS%20FOR%20IT/Book%20Introduction%20to%20Information.pdf
3. https://mu.ac.in/wp-content/uploads/2022/05/information-security.pdf

Course Code	**BLIS3410**
Course Title	Internship
Type of Paper	Internship
Credit	4
Teaching Hours	60

Objectives-
  i. *To train the students in practical librarianship in the working environment of the library by deputing them in different types of libraries for a period of one month; and*
  ii. *To train them in preparing the Internship Report in a prescribed format based on their practical training and learning.*

Outcome- *After completion of the course, students will be able to works in Library without any hesitation.*

The work for paper shall start in the beginning of the FOURTH semester for which each student will be allotted a topic for writing the Report. The Report will be submitted at the end of FOURTH semester on the date to be decided by the Department.

A. Report on Internship Programme – **40 Marks**

B. Viva-Voce – **20 Marks**

IIIrd-Year, SEMESTER-V

Course Code	**BLIS3501**
Course Title	Marketing of Library and Information Products and Services
Type of Paper	Core/DSC (Discipline Specific Core Course) Compulsory
Credit	4
Teaching Hours	60

Objectives- *To make the students aware of the information products, consolidation, repackaging, content analysis and marketing of library products.*
Outcome- *After completion of the course, students will be aware of information products, consolidation, repackaging, content analysis and marketing of library products.*

Unit I: Information Analysis
➢ Information: Basic Concepts
➢ Consolidation and Repackaging of Information: Concept, Need and Process.
➢ Guiding Principles for Arrangement and Presentation of Idea in a Helpful Sequence.
➢ Packaging and Repackaging of Information Products.

Unit II: Information Products
➢ Information Products: Concepts, Nature, Definitions, Design, and Types
➢ Information Newsletters, Hand Books, House Bulletins
➢ In-house Communication, Trade Bulletin, Product Bulletin, State-of-the-Art Report, Trend Report
➢ Technical Digests: Nature, Concept, Types, Design and Development.

Unit III: Content Analysis
➢ Content Analysis: Concept, Types and Process
➢ Abstract: Definition and Types, Characteristics and Qualities of Good Abstracts.
➢ Abstracting: Need, Process, Computers and abstracting.
➢ Abstracting Organizations and Services.

Unit IV: Planning, Management and Marketing
➢ Planning and Management of Information Analysis and Consolidation
➢ Marketing of Information Concept, Need and Benefits.
➢ 5 Ps of Information Marketing; Marketing of Profit and Non- Profit Organization
➢ Trends in Marketing of Information Services and Information Marketing in India

RECOMMENDED BOOKS

1. BAKEWELL (K G): Managing user-centered libraries and information services (Ed. 2, 1997) Maxwell, London.

2. BUTCHER (Helen): Meeting manager's information needs (1998) ASLIB, London.

3. CARPENTER (J) and DAVIES (R): Quantification of the overseas consulting market for professional consultancy services in librarianship and information science and information management (1992) Research and Development, British Library, London.

4. COOTE (Helen) and BATCHELOR (Bridget): How to market your library services effectively (Ed. 2, 1997) ASLIB, London.

5. GUPTA (D K): et al. Marketing library and information services: international perspectives (2006) K.G. Saur, Munich.

6. HELINSKY (Z): A short-cut to marketing the library (2008) Chandos Publishing, Oxford

7. JAIN (Abhinandan K): et al. Marketing information products and services: a primer for libraries and information professionals (1999) Tata McGraw-Hill, New Delhi.

8. KOTLER (Philip): L Marketing management (Ed.12, 2002) Prentice Hall, Delhi.

9. KOTLER (Philip) and ARMSTRONG (Gary): Principle of marketing (Ed. 7, 1996) Prentice- Hall of India, New Delhi.

10. ROWLEY (Jenifer): Information marketing (2001) Ashgate London.

Course Code	**BLIS3502**
Course Title	Information and Communication Technology (Theory)
Type of Paper	Core/DSC (Discipline Specific Core Course) Compulsory
Credit	4
Teaching Hours	60

Objectives- To keep abreast the students with the various computer technologies and programming languages, internet protocols and standards, telecommunication, and wireless communication, etc.

Outcome- After completion of the course, students will be skilled with various computer technologies and programming languages, internet protocols and standards, telecommunication, and wireless communication, etc.

Unit I: Computer Technology and Programming Language

➢ Character Representation (ASCII, ISCII, UNICODE)
➢ Computer Hardware, Computer Software, Storage Devices, Input and Output Devices
➢ Types of Software: System Software and Application Software
➢ Programming Language: Object Oriented, Procedural, High Level, Scripting, Web Languages

Unit II: Internet Protocols and Standards

➢ Internet: Web Browsers, WWW, E-mail, Search Engines, Meta and Entity Search Engines
➢ Internet Protocols and Standards: HTTP, SHTTP, FTP, SMTP, TCP/IP, URN, URI, URL and POP
➢ Computer Networks: Topologies, Types of Networks: LAN, MAN, WAN and PAN

Unit III: Telecommunication and Wireless Communication

➢ Transmission Channels, Mode and Media, ISDN, PSDN, Multiplexing
➢ Modulation, Standards and Protocols
➢ Wireless Communication: Media. Wi-Fi, Li-Fi, Satellite Communication, Mobile Communication

Unit IV: Information and Communication

➢ Hypertext, Hypermedia, Multimedia, Video Conferencing, Virtual Reality, and
➢ Augmented Technologies
➢ Data Security, Network Security, Firewalls, Cryptographic Techniques, Anti-virus Software, Anti-spyware, Intrusion Detection System

RECOMMENDED BOOKS

1. https://www.ddegjust.ac.in/studymaterial/mca-5/mca-101.pdf
2. https://egyankosh.ac.in/bitstream/123456789/9757/1/Unit-2.pdf
3. https://www.tutorialspoint.com/computer_fundamentals/computer_fundamentals_tutorial.pdf
4. Pratt T W and Zelkowitz M V. Programming Languages. (3rd edition), Prentice Hall of India, New Delhi, 1996.
5. Bird R and Wadler P. Introduction to Functional Programming. Prentice Hall Inc., Englewood–Cliffs, N J, USA, 1988.
6. Ousterhout J K. Scripting: High level Programming for the 21st Century. Computer. (IEEE, U.S.A), Vol.31, No.3, 23–30,March 1998.
7. http://repository.ias.ac.in/38341/1/12-PUB.pdf
8. https://www.ime.usp.br/~alvaroma/ucsp/proglang/book.pdf
9. https://sist.sathyabama.ac.in/sist_coursematerial/uploads/SECA3025.pdf
10. https://egyankosh.ac.in/bitstream/123456789/33161/1/Unit-3.pdf
11. https://ccsuniversity.ac.in/bridge-library/pdf/EC_8th_Sem_Electronic%20Switching_P_Gnanasivam%20-%20Telecommunication%20Switching%20and%20Networks_2nd-Edition-2008.pdf
12. https://sist.sathyabama.ac.in/sist_coursematerial/uploads/SEC1404.pdf
13. https://egyankosh.ac.in/bitstream/123456789/9479/3/Unit-3.pdf
14. https://mu.ac.in/wp-content/uploads/2021/05/Web-Programming-1.pdf
15. https://egyankosh.ac.in/bitstream/123456789/10970/1/Unit-2.pdf
16. https://egyankosh.ac.in/bitstream/123456789/26321/1/Unit-5.pdf
17. https://egyankosh.ac.in/bitstream/123456789/35797/5/Unit-12.pdf

Course Code	**BLIS3503**
Course Title	Media and Information Literacy in LIS
Type of Paper	Core/DSC (Discipline Specific Core Course) Compulsory
Credit	4
Teaching Hours	60

Objectives- *To understand different theories of media & information literacy (MIL) and to discuss about the various models of media and information literacy.*

Outcome- *After completion of the course, students will be able to understand the concept of media literacy, information literacy & their theories.*

Unit I: Introduction to Media and Information Literacy (MIL)
  ➢ Media & Information Literacy: Definition, Need and Purpose.
  ➢ Historical Context and Evolution of Media and Information Literacy
  ➢ Role of MIL in the Society
  ➢ Types and Characteristics of Traditional and New Media, Fusion between Traditional and new Media

Unit II: Policies and Strategies of MIL
  ➢ MIL Policies and Strategies: Introduction and Nature
  ➢ MIL Policies and Strategies: Benefits and Importance
  ➢ Information Literacy Standards: Foundations and Implications
  ➢ Right to Information (RTI): Concept, Nature, Scope

Unit III: Media Literacy and Data Literacy
  ➢ Data Literacy: Concept, Importance and Finding Data
  ➢ Media Literacy in India
  ➢ Media and Information Ethics: Cyber Laws and Ethics
  ➢ Media Ethics

Unit IV: Social Media in Society
  ➢ Social Media Platforms and Tools
  ➢ Role of Social Media in Society
  ➢ Constructing Media Message
  ➢ Open Resources

RECOMMENDED BOOKS

1. Aufderheide, P. (1992). Media Literacy: A Report of the national leadership conference on media literacy; Washington DC: Aspen Institute.
2. Horton, Forest Woody, Jr (2007). Understanding Information Literacy: A Primer; United Nations Educational, Scientific and Cultural Organization.
3. Carlsson, Ulla (2013). Preface in Media and Information Literacy; Policy and Strategy Guidelines; UNESCO; 2013.
4. Criticos, Costas (2001). Media Education for a Critical Citizenry in South Africa in Robert Kubey (ed.) Media Literacy in an Information Age; New Brunswick; NJ: Transaction.
5. Grizzle, A & Wilson, C. (2011). Media and Information Literacy Curriculum for Teachers, UNESCO; Paris, France.
6. Ashraf, T. (2008). Empowering people through information: A case study of India's Right to Information Act. International Information & Library Review, 40(3), 148-152. doi:10.1016/j.iilr.2008.06.002
7. Bhatia, K. (2008). ROLE OF LIBRARIAN IN RIGHT TO INFORMATION (RTI) AND DEMOCRACY. SRELS Journal of Information Management, 45(1), 11-16.
8. Coopers, P. (2009). Final Report: Understanding the Key Issues and Constraints in Implementing the RTI Act. New Delhi: Department of Personnel and Training.
9. Media and Communication." Open Access Journals Search Engine (OAJSE). Accessed May 17, 2015. http://www.oajse.com/subjects/media_and_communication.htm
10. Castells, M. & G. Cardoso eds. (2005) The Network Society: from Knowledge to Policy. Washington Dc, USA.
11. Baran, S. J (2013). Introduction to Mass Communication: Media Literacy, Mcgraw Hill Publication
12. FICCI KPMG report on Indian Media and Entertainment 2015 https://www.kpmg.com/IN/en/IssuesAndInsights/ArticlesPublications/Documents/FICCIKPMG_2015.pdf
13. http://www.ala.org/acrl/sites/ala.org.acrl/files/content/standards/standards.pdf
14. Association of College and Research Libraries (ACRL). (2000). Information Literacy Competency Standards for Higher Education. Chicago: Association of College and Research Libraries. Chicago: ACRL, ALA.

Course Code	**BLIS3504 A**
Course Title	Academic Library and Information System
Type of Paper	DSE (Discipline Specific Elective Course)
Credit	4
Teaching Hours	60

Objectives- *To make the students aware of the objectives, development, collection development, organizational structure, services, financial and HRM of Academic Library.*

Outcome- *After completion of the course, students will be aware of objectives, development, collection development, organizational structure, services, financial and HRM of Academic Library.*

Unit I: Academic Libraries and their Development

- Objectives and Functions
- History and Development of Academic Libraries in India
- History and Development of Academic Libraries in Abroad
- UGC and its Role in the Development of College and University Libraries

Unit II: Collection Development and Management

- Books and Periodicals
- Conference Literature, Grey Literature and Government Publications
- Non-Book Materials: Electronic-Resources and Databases

Unit III: Library Organization and Services

- Organizational Structure of Academic Library
- Staff Manual, Library Surveys, Statistics and Standards, etc.
- CAS, SDI, Abstracting and Indexing Services, Library Bulletin, Newspaper Clipping Services
- Resource Sharing and Networking

Unit IV: Financial and Human Resource Management

- Determination of Finance, Sources of Finance
- Types of Budgets
- Nature, Size, Selection, Recruitment, Qualification and Training
- Responsibilities and Duties
- Competency Development Case Study of Academic Library in India

RECOMMENDED BOOKS

1. BAKER (David), Ed. Resource management in academic libraries (1997) Library Associations, London.
2. BROPHY (Peter): The academic library (2000) Library Association, London.
3. BUDD (J M): The academic library: the context, its purpose, and its operation (1988) Libraries Unlimited, London.
4. CHAPMAN (Liz): Managing acquisitions in library and information Services (2001) Library Association, London.
5. DOWLER (L): Ed. Gateways to knowledge: the role of academic libraries in teaching, learning and research (1998) The MIT Press, London.
6. JORDON (Peter): The academic library and its users (1998) Gower Publishing Limited, London.
7. LINE (Maurice B), Ed. Academic library management (1990) Library Association, London.
8. RANGANATHAN (S R): School and college libraries (1942) Madras Library Association, Madras.
9. WEBB (Sylvia P): Personal development in information work (Ed2.1991) ASLIB, London.
10. WHITE (Carl M): Survey of university of Delhi (1965) Planning Unit, University of Delhi, Delhi

Course Code	**BLIS3504 B**
Course Title	Public Library and Information System
Type of Paper	DSE (Discipline Specific Elective Course)
Credit	4
Teaching Hours	60

Objectives- *To make the students aware of the objectives, development, collection development, organizational structure, services, financial and HRM of Public Library.*

Outcome- *After completion of the course, students will be aware of objectives, development, collection development, organizational structure, services, financial and HRM of Public Library.*

Unit I: Public Libraries and their Development
- ➢ Objectives and Functions
- ➢ History and Development of Public Libraries in India
- ➢ History and Development of Public Libraries in Abroad
- ➢ Role of Government and agency for the promotion and development of Public Libraries in India

Unit II: Collection Development and Management
- ➢ Books and Periodicals
- ➢ Conference Literature, Grey Literature and Government Publications
- ➢ Non-Book Materials: Electronic-Resources and Databases
- ➢ Manuscripts

UNIT III: Library Organization and Services
- ➢ Organizational Structure of Public Library
- ➢ Staff Manual, Library Surveys, Statistics and Standards, etc.
- ➢ CAS, SDI, Abstracting and Indexing Services, Library Bulletin, Newspaper Clipping Services
- ➢ Resource Sharing and Networking

UNIT IV: Financial and Human Resource Management
- ➢ Determination of Finance, Sources of Finance
- ➢ Types of Budgets
- ➢ Nature, Size, Selection, Recruitment, Qualification and Training
- ➢ Responsibilities and Duties
- ➢ Competency Development Case Study of Public Library in India

RECOMMENDED BOOKS

1. BARUA (B P): National policy on library and information systems and services for India: perspectives and projections (1992) Popular Bombay
2. BATT (Chris): Information technology in public libraries (1998) London Library Association Publishing, London.
3. BHATT (R K): UNESCO: development of libraries and documentation centers in developing countries (2004) KK Publications, New Delhi.
4. HIGGINS (S E): Youth services and public libraries (2007) Chandos Publishing, Oxford.
5. IFLA: Guidelines for public libraries (revised 2000) The Hague, IFLA.
6. INDIA: Advising committee for libraries (Ed. 2, 1958) Manager of Publications, Delhi.
7. JAGANAYAK (S S): Role of libraries in socio-economic, cultural, and educational development. (1997) Classical Publication, New Delhi.
8. PATEL (Jashu) and KRISHAN KUMAR: Libraries and librarianship in India (2001) Greenwood Press, Westport, Connecticut.
9. THOMAS (V K): Public libraries in India: development and finance (1997) Vikas Publication, New Delhi.
10. WOODRUM (Pat), Ed. Managing public libraries in 21st century (1989) The Hawork Press, New York.

Course Code	**BLIS3504 C**
Course Title	Research and Technical Library and Information System
Type of Paper	DSE (Discipline Specific Elective Course)
Credit	4
Teaching Hours	60

Objectives- To make the students aware of the objectives, development, collection development, organizational structure, services, financial and HRM of Research and Technical Library and Information System.

Outcome- After completion of the course, students will be aware of objectives, development, collection development, organisational structure, services, financial and HRM of Research and Technical *Library and Information System.*

Unit I: Research and Technical Libraries and their Development
➢ Objectives, Functions, and Development of Research and Technical Library in India
➢ History and Development of Research and Technical Library in Abroad
➢ Promotion and Development of Research and Technical Library in India
➢ Research and Technical Libraries and its Relationship with Parent Organization

Unit II: Collection Development and Management
➢ Books and Periodicals
➢ Conference Literature, Grey Literature and Government Publications
➢ Non-Book Materials: Electronic-Resources, Databases

Unit III: Library Organization and Services
➢ Organizational Structure of Research and Technical Library
➢ Staff Manual, Library Surveys, Statistics and Standards, etc.
➢ CAS, SDI, Abstracting and Indexing Services, Library Bulletin
➢ Resource Sharing and Networking

Unit IV: Financial and Human Resource Management
➢ Determination of Finance, Sources of Finance
➢ Types of Budgets
➢ Nature, Size, Selection, Recruitment, Qualification and Training
➢ Responsibilities and Duties
➢ Competency Development Case Study of Research and Technical Library in India

RECOMMENDED BOOKS

1. AUGER (C P): Information sources in grey literature (Ed. 3, 1994) Bowker, London.
2. CHAPMAN (Liz): Managing acquisitions in library and information services (2001) Library Associations, London.
3. GROGAN (N): Science and technology: an introduction to the literature (Ed. 4, 1982) Clive Bingley, London.
4. HERNON (Peter) and WHITMAN (John R): Delivering satisfaction and service quality: a customer-based approach for libraries (2001) American Library Association, Chicago.
5. LAWES (Ann), Ed. Management skills for the information manager (19930 Gower Publishing, London.
6. RAITT (David): Ed. Libraries for the new millennium (1997) Library Association, London.
7. SAHA (J): Special libraries and information services in India and the USA (1969) Scarecrow, New York.
8. SCAMMELL (AW): Ed. Handbook of special librarianship and information work (Rev. Ed. 7, 1997) ASLIB, London.
9. SINGH (S P): Special libraries in the electronic environment (2005) Book well, New Delhi.
10. STRAUSS (L J): Scientific and technical libraries: their organization and administration (Ed. 2, 1972) Beckey and Hayes, New York.

Course Code	**BLIS3505 A**
Course Title	Electronic Publishing
Type of Paper	GE (Generic Elective)
Credit	4
Teaching Hours	60

Objectives- To make the students aware of the concept, OAI, formats, structure, and issues of Electronic Publishing.

Outcomes- After completion of course, students will be aware of concept, OAI, formats, structure, and issues of Electronic Publishing.

Unit I: Concept Electronic Publishing
- ➢ Concept
- ➢ Scope
- ➢ Nature
- ➢ Types

Unit II: Open Access Sources of Electronic Publishing
- ➢ Evolution of OAI
- ➢ Open Access Sources
- ➢ Pricing and Pricing models
- ➢ Current Trends in E-publishing

Unit III: Formats and Structure of E-Publishing
- ➢ Format of E-Publishing
- ➢ Structure of E-Publishing
- ➢ Languages of E-publishing

Unit IV: Issues of E-Publishing
- ➢ Socio issues in E-Publishing
- ➢ Economic issues in E-Publishing
- ➢ Legal issues in E-Publishing

RECOMMENDED BOOKS

1. Karen S. W. Marilynn B, Stone, T. A. (2003). Electronic publishing: The definitive guide. UK: Hard Shell Word Factory.
2. Klostermann, D. (2011). The e-book handbook - A thoroughly practical guide to formatting, publishing, marketing, and selling your e-book. Cambridge: Full Stop.
3. Loton, T. (2011). E-book publishing DIY: the do it yourself guide to publishing e-books, 2nd ed. United States: LOTONtech.
4. Meckler, L. (2011). E-book formatting, self-publishing, marketing tips updated . USA: Linda E meckler on smash words.
5. Sahida, f. k. (2010). Publishing e-book for dummies. USA: CreateSpace
6. Schuster, C. (2011). E-publishing for writers: Trends an opportunities/Fall 2011 (Kindle Edition ed.). UK: Books to Go Now

Course Code	**BLIS3505 B**
Course Title	Reference Management
Type of Paper	GE (Generic Elective)
Credit	4
Teaching Hours	60

Objectives- *To make the students equipped with the skills and knowledge required to effectively manage and cite references in academic and professional writing.*

Outcome- *After completion of the course, students will be able to understand the importance of proper referencing and the implications of plagiarism; use reference management software to organize and cite sources efficiently.*

Unit I: Introduction to Reference Management

➢ Overview of different Citation Styles (APA, MLA, Chicago, etc.) and their Significance
➢ Importance of Referencing and Citation in academic work
➢ Introduction to Reference Management Software (e.g., Zotero, Mendeley, EndNote) and their features

Unit II: Collecting and Organizing References

➢ Searching for Academic Sources: Utilizing Library Databases, Online Catalogues, and Search Engines
➢ Importing of Reference Management Software
➢ Creating and Managing Reference Libraries: Folders, Tags, and Metadata

Unit III: Citing Sources and Generating Bibliographies

➢ In-text Citations and Bibliography Formatting
➢ Linking Reference Management Tools: Microsoft Word, Google Docs)
➢ Inserting Citations and Generating Bibliographies
➢ Troubleshooting Common Formatting Issues and Errors

Unit IV: Advanced Features and Collaboration

➢ Features of Reference Management Software: Annotation, Note-taking, and Highlighting.
➢ Collaborative Reference Management
➢ Customizing and Creating Citation Styles

RECOMMENDED BOOKS

1. "Cite Right: A Quick Guide to Citation Styles--MLA, APA, Chicago, the Sciences, Professions, and More" by Charles Lipson
2. "The Complete Guide to Referencing and Avoiding Plagiarism" by Colin Neville
3. "Cite Unseen: How to Reference Online Sources" by Justin Littman
4. "The Chicago Manual of Style"
5. "Publication Manual of the American Psychological Association (APA)"
6. "MLA Handbook"
7. "Writing Research Papers: A Complete Guide" by James D. Lester Jr. and James D. Lester
8. "Scientific Style and Format: The CSE Manual for Authors, Editors, and Publishers" by Council of Science Editors
9. "AMA Manual of Style: A Guide for Authors and Editors"
10. "The ACS Style Guide: Effective Communication of Scientific Information" by Anne M. Coghill and Lorrin R. Garson

Course Code	**BLIS3506**
Course Title	Re-Envisioning Special Library
Type of Paper	IAPC (Internship/Apprenticeship/Project/Community Outreach)
Credit	2
Teaching Hours	30

Objectives- *To make the students aware of new perspectives and strategies for designing, managing, and enhancing special libraries in various contexts.*
Outcome- *After completion of the course, students will be able to understand the importance of special libraries with a new perspective.*

Unit I: Special Libraries in Contemporary Contexts

- ➢ Definitions, Characteristics, Functions of Special Libraries
- ➢ Historical Evolution and Relevance in the Digital Age
- ➢ Specific needs and user Communities of Special Libraries
- ➢ Digital Transformation and its Impact on Special Libraries
- ➢ Challenges in Collection Development, Resource Management, and Information Dissemination

Unit II: Innovating and Enhancing Special Libraries

- ➢ Designing Flexible and Collaborative Spaces within Special Libraries
- ➢ Digital Collections in Special Libraries
- ➢ Web Scale Discovery in Special Libraries
- ➢ Knowledge Sharing, Documentation in Special Libraries

RECOMMENDED BOOKS

1. "Reimagining Libraries: Innovations in Library Design" by Ken Worpole and Françoise Dupré
2. "The User Experience Team of One: A Research and Design Survival Guide" by Leah Buley
3. "Design Thinking for Libraries: A Toolkit for Patron-Centered Design" by Andrew D. Weiss
4. "The New Digital Age: Reshaping the Future of People, Nations, and Business" by Eric Schmidt and Jared Cohen

Course Code	**BLIS3507**
Course Title	Information and Communication Technology (Practical)
Type of Paper	SEC (Skill Enhancement Course)
Credit	2
Teaching Hours	30

Objectives- *To provide hands on experience of library automation software and website designing tools.*

Outcome- *After completion of the course, students will be skilled enough to automate the library as well as design a library website.*

Unit 1: Hands-on experience on Library Automation Software

    Integrated Library Software: Koha / SOUL

Unit 2: Hands-on experience on Website Designing HTML / Dreamweaver

A) A practical written test on Library Software and Website Designing- **40 Marks**

B) Viva Voce- **20 Marks**

Course Code	**BLIS3508 A**
Course Title	User Studies and User Education
Type of Paper	MENC (Mandatory Elective Non-Credit Course)
Credit	2
Teaching Hours	30

Objectives- *To make students identify the users of a library or of any information system or service and to understand the concept of user education.*

Outcome- *After completion of the course, students will be aware of the users and user education in broader perspectives.*

Unit I: User Studies and its Importance

- ➢ User and its Characteristics
- ➢ User Studies: Need, Planning and Techniques for User Studies
- ➢ Limitations and Criticisms of User Studies
- ➢ Case Studies in India

Unit II: User Education

- ➢ User Education: Definitions, Components, Goals and Objectives
- ➢ Development of User Education
- ➢ Information Technology and User Education
- ➢ Evaluation of a User Education Programme

RECOMMENDED BOOKS

1. Banwell, Linda, and Graham Coulson. "Users and User Study Methodology: The Jubilee Project". Information Research 9.2 (2004)

2. Bernal, J.D. Report on Royal Society's Scientific Conference. London: Royal Society, 1948. Print

3. The Transmission of Scientific Information: A User's Analysis - In: International Conference on Scientific Information. Vol.1. Washington: NRC, 1959. pp.77-95. Print

4. Busha, Charles H., and Stephen P. Harter. Research Methods in Librarianship: Techniques and Interpretations. New York: Academic Press, 1980. Print

5. Devarajan, G. Library Information User and Use Studies. New Delhi: Beacon Books, 1995. Print

6. Guha, B. Techniques of User Studies. Paper 11.3 in DST Course Material. New Delhi :INSDOC, 1976. Print.

7. Fjallbrant, Nancy and Malley, Ian (1984): User Education in Libraries. 2nd ed: London:- Clive Bingley

8. Fjallbrant, N: (1996). Educate.- a networked user education project in Europe. In IFLA Journal, zz(I)

9. Girja Kumar and Krishan Kumar (1983). Philosophy of User Education. New Delhi: Visas Publishing House.

10. Kirkendall , C.A. (1980). Library Use Education: Current Practices and Trends.. Library Trends, 29(I).

11. Knapp, P.B. ('1964). The Monteith College Experiments. New York: Scarecrow Press.

12. Lubans, J, ed. (1974). Educating the Library User. London: BOWKER.

Course Code	**BLIS3508 B**
Course Title	Big Data and Data Visualization
Type of Paper	MENC (Mandatory Elective Non-Credit Course)
Credit	2
Teaching Hours	30

Objectives- *To enable students to have skills that will help them to solve complex real-world problems for decision support.*
Outcome- *After completion of the course, students will be able to visualize big data to perform decision making in real world problems.*

Unit I: Introduction to Big Data

- ➢ Big data: Importance and Characteristics
- ➢ 3Vs of Data Volume, Velocity and Variety, Data sets, Data analysis, Data analytics
- ➢ Different types of Data, Drivers for Big Data Adoption
- ➢ Big Data Technologies: Hadoop ecosystem (HDFS, MapReduce, YARN); NoSQL databases (MongoDB, Cassandra, etc.)
- ➢ Data Mining, Statistical Analysis, Machine Learning, Semantic Analysis, Visual Analysis, Case Studies.

Unit II: Introduction to Data Visualization

- ➢ Importance of Data Visualization
- ➢ Basic Principles of Visual Perception and Design
- ➢ Bar Charts, Histograms
- ➢ Pie Charts, Scatter Plots
- ➢ Line Plots, Regression

RECOMMENDED BOOKS

1. Thomas Erl (2016) Big Data Fundamentals-Concepts, Drivers and Techniques. *Pearson publication*
2. Judith Huruwitz, Alan Nugent, Fern Halper, Marcia Kaufman, "Big data for dummies", John Wiley & Sons, Inc. (2013)
3. Paul Zikopoulos, "Understanding Big Data: Analytics for Enterprise Class Hadoop and Streaming Data, McGraw Hill, 2012 Chuck Lam, "Hadoop In Action", Dreamtech Publications, 2010
4. Seema Acharya, Subhashini Chellappan, "Big Data and Analytics", Wiley Publications, First Edition,2015
5. https://www.psgrkcw.ac.in/wp-content/uploads/2021/08/Data-Visualization-Tools.pdf

IIIrd-Year SEMESTER-VI

Course Code	**BLIS3601**
Course Title	Information Retrieval System
Type of Paper	Core/DSC (Discipline Specific Core Course) Compulsory
Credit	4
Teaching Hours	60

Objectives- *To make the students aware of the indexing & vocabulary control techniques and searching of resources both through print and electronic medium.*

Outcome- *After completion of the course, students will be aware of using the indexing techniques to retrieve the useful resources for learning and research.*

Unit I: Basics of Information Retrieval Systems
- Definition, Components and Types of IRS Systems
- Elements of File Organisation
- Artificial Intelligence and Expert System
- Information Retrieval Models

Unit II: Subject Representation and Indexing Languages
- Alphabetical Subject Representation
- Contributions of Cutter, Kaiser, Ranganathan and Coates
- Characteristics of Indexing Languages
- Vocabulary Control-List of Subject Headings and Thesaurus

Unit III: Indexing Systems and Techniques
- Assigned Indexing vs Derived Indexing
- Assigned Indexing Systems: Pre-Coordinate (PRECIS, POPSI and Chain Indexing) and Post-Coordinate Indexing System (Uniterm, Index System)
- Derived Indexing Systems: Title based (KWIC, KWOC and KWAC), Citation based (SCI, SSCI, etc.) and Full-Text (STAIRS, LEXIS-NEXIS, etc.)
- Automatic Indexing: COMPass

Unit IV: Information Searching and Evaluation
- Search Methods and Search Strategy, Boolean Search
- Information Searching in different Media: Print and Electronic
- Need and Parameters of Evaluation - Retrieval Performance: Recall and Precision

RECOMMENDED BOOKS

1. Aitchison, Jean, Gilchrist, Alan; and Bawdown, David. (1990). Thesaurus Construction and Use: A practical manual. 4th Ed. ASLIB.

2. Becker, Joseph, and Robert M Hayes.(1967). Information Storage and Retrieval tools Elements & Theories. New York: John Wiley.

3. Choudhury, G.G. (1993). Introduction to Modern Retrieval System. Calcutta: IASLIC,1993

4. Convey, John.(1992). Online Information Retrieval: An Introductory Manual to Principles and Practice. 4th ed. London.

5. Elis, David (1996). Progress and Problems in Information Retrieval. London: Library Association.

6. Fosket, A.C. (1992) Subject Approach to Information. London: Clive Bingley.

7. Fugman, Robert (1993). Subject Indexing and Analysis Theoretical Foundations & Practical Advice. Frankfurt: Index Verlag.

8. Grolier, Eric de. (1962). A Study of general Categories Applicable to Classification and Coding in Documentation UNESCO.

9. Lancaster, F.W. (1977). The Measurement and Evaluation of Library Science. Information Sources Press.

10. Losee, Robert M. (1998). Text retrieval and Filtering: Analytical Models of Performance. London: Kluwer.

11. Meadow, Charles T. (2000). Text Information retrieval system. Academic Press.

12. Sharp, Harold S. (1964). Readings in Information Retrieval. London: The Scarecrow Press.

13. Soergel, Dagobert. (1974). Indexing Languages & Thesaurus Construction &Maintenance. Los Angeles: Melville Pub. House.

14. Soergel, Dagobert. (1985). Organizing Information. Principles of Database & Retrieval Systems, Academic Press.

Course Code	**BLIS3602**
Course Title	Web Based Information Systems and Services (Theory)
Type of Paper	Core/DSC (Discipline Specific Core Course) Compulsory
Credit	4
Teaching Hours	60

Objectives- *To make the students aware of the various web-based information systems and services in the library.*
Outcome- *After completion of the course, students will be aware of different web-based services such as HTML, CSS, XML, web-based protocols etc.*

Unit I: Web Based Information Systems
- Web Based Information System: Objectives, Drawbacks, Advantages
- Software Requirements, System Architecture
- Module: Admin Module, User Module
- HTML Basics: tags, attributes, text/paragraph formatting, hyperlinks
- CSS Basics: Inline vs global CSS, CSS selectors, Box-model

Unit II: XML
- XML Concepts: Markup vs semantics, rules for well-formed XML
- XML DTD: valid vs well-formed, element and attributes definitions, validation tools (xmllint)
- XML Schema: data types, data facets and patterns, XML namespaces, Simple vs Complex types
- XML Styling: CSS vs XSL, XSLT/XPATH/SQuery, xsltproc tool
- XSLT advanced: XPATH Primer, advanced XSLT templates, lists, if-else, loops
- Crosswalk using XSLT: MARCXML to DC/MODS and DC to MODS
- YAML/JSON Primer: Basics of JSON, YAML standard and JSON, XML vs JSON

Unit III: Web Based Services and Networking
- Modern web patterns: Templating, MVC pattern, CGI vs WSGI, Security, Flask framework (Python)
- Database abstraction: OS-level abstraction (ODBC), Language-level (JDBC/PDO/DBI), Object Relational Mapping (ORM)
- JavaScript: Client-side script concept, Browser/DOM events, jQuery, asynchronous programming (AJAX)
- Web skills practical: use custom jQuery and CSS in Koha/DSpace
- Search engine components: Spider/crawler, Indexer, Searcher, Tokenizer, Filters, Ranking algorithms (TF-IDF scores)

Unit IV: Web Based Services Protocols
- Z39.50 Protocol Operations
- Type-1 Query (RPN)
- Z39.50 server setup using Index Data Zebra software, Index MARC records,Record Id de-duplication
- Z39.50 Application Profiles

RECOMMENDED BOOKS

1. Anderson, Paul. (2012). Web 2.0 and beyond : principles and technologies. CRC Press
2. Bates, Chris. (2006). Web Programming: Building Internet Applications. 3rd Ed. Wiley-India.
3. Duckett, Jon .(2011). HTML and CSS: Design and Build Websites Paperback Wiley
4. Kalbach, James. (2007). Designing Web Navigation: Optimizing the User Experience. O'Reilly Media.
5. Macdonald, Matthew (2015). Creating a Website: The Missing Manual. O'Reilly Media.
6. Morville, Peter & Rosenfeld, Louis. (2006). Information Architecture for the World Wide Web: Designing Large-Scale Web Sites. 3rd Ed. O'Reilly Media.
7. Robbins, Jennifer Niederst. (2012). Learning Web Design: A Beginner's Guide to HTML, CSS, JavaScript, and Web Graphics. 4th Ed. O'Reilly Media.
8. Stallings, William. (2007). Computer Networking with Internet Protocols and Technology. Pearson Education.

Course Code	**BLIS3603**
Course Title	Content Management System
Type of Paper	Core/DSC (Discipline Specific Core Course) Compulsory
Credit	4
Teaching Hours	60

Objectives- *To make the students aware with content management concepts, content management, and related software.*

Outcome- *After completion of the course, students will be able to understand the content management, content developing strategies, Data integration and community information System.*

Unit I: Introduction to CMS
➢ Introduction of CMS, Benefits
➢ Concept and Content Creation, Types of Contents
➢ Challenges and Real-World Application
➢ Document Management, Record Management

Unit II: Content Management
➢ Concept, Content creation and Principles of CMS
➢ CMS Architecture
➢ Creating and Managing Web Page and Content
➢ Fundamentals of planning dynamic websites

Unit III: Content Management Software and Applications
➢ CMS Software: WordPress, Drupal, Joomla, and others to create dynamic and flexible websites.
➢ Evaluation of CMS.
➢ Application of CMS; CMS and Community Information Systems
➢ Document Management, Records Management, Digital Assets Management

Unit IV: Integration and Community Information System (CSI)
➢ System and Data Integration in CMS
➢ CMS Application
➢ CSI: Concept
➢ CSI: Conceptual Framework, Purpose & Technology

RECOMMENDED BOOKS

1. Arthur, M.H. (2006). Expanding a digital content management system for the growing digital media enterprise. Boston: Elsevier Focal Press.
2. Barrie, M. N. (2009). Joomla! 1.5: a user's guide: building a successful Joomla! Powered website. Upper Saddle River, NJ: Prentice Hall.
3. Bishop, A. P. et al. (eds.). (2005). Digital Library Use: Social Practice in Design and Evaluation. Delhi: Ane Books.
4. Bradford, L. E. (2008). Content management systems in libraries: case studies. Lanham, MD: Scarecrow Press.
5. Chowdhury, G. G. & Chowdhury, Sudatta. (2003). Introduction to Digital Libraries. London: Facet.
6. Cooper, Michael D. Design of Library Automation Systems: File Structure, Data Structures and Tools, New York: John Wiley, 1996.
7. Deegan, Marilyn & Tanner, S. (2006). Digital Preservation. London: Facet Publishing.
8. Hal Stern, Brad Williams, and David Damstra. (2010). Professional WordPress: design and development. Indianapolis, IN: Wiley Pub., Inc.
9. Janet Majure. (2010). Teach yourself visually WordPress. Indianapolis, IN: Wiley Pub., Inc.
10. Jason, C. and Helen, F. (2008). Using Moodle. Sebastopol, CA: O'Reilly Community Press.
11. Jen, K.P. and Sarah, E. (2010). Joomla! Start to finish. Indianapolis, IN: Wiley Pub., Inc.
12. Jennifer Marriott and Elin Waring. (2011). The official Joomla! Book. Upper Saddle River, NJ: Addison-Wesley.
13. John M. Cohn, Ann L. Kelsey and Keith Michael Fiels, Planning for Library automation: A Practical Handbook London: Library Association, 1998.
14. John M. Colon, Annl Kelsey, Keith Michael Fiels. Planning for Automation: A How-to-do-it for Librarian. 2nd ed.(S.I.): Neal-Schuman, 1997.
15. Jones, Richard et al. (2006). The Institutional Repository. Oxford: Chandos Publishing.
16. Judith, Andrews & Derek, Law. (2004). Digital Libraries. Hants: Ashgate.
17. Kausik Bose Information Networks in India: Problems and Prospects / New Delhi: Ess Ess Publications, 1994.

Course Code	**BLIS3604 A**
Course Title	Computer and Communication Technology
Type of Paper	DSE (Discipline Specific Elective Course)
Credit	4
Teaching Hours	60

Objectives- *To familiarize the students with the basics structure of computer and Communication Technology.*

Outcome- *After completion of the course, students will be able to understand the development of computers and CT, the different software and hardware components, devices, operating systems, and programming languages etc.*

Unit I: Introduction to Computers

➢ Basic Components of a Computer; Arithmetic Logic Unit - Half-Adder, Full-Adder, Multiplier; Control Unit
➢ Memory Unit - Static and Dynamic RAM, ROM, Cache Memory.
➢ Input/Output Devices – Keyboards, Monitors, Printers, Scanners, Secondary Storage Elements.
➢ Generations of Computer

Unit II: Data Representation and Computer Software

➢ Data Representation in Computers: Binary Number System, Character Encoding Standards ASCII, ISCII and UNICODE
➢ Computer Software: System Software and Application Software
➢ Programming Concepts: Open Source and Proprietary
➢ Operating Systems: Windows, DBMS & LINUX. Working with Windows

Unit III: Introduction of Communication Technology

➢ Communication Technology: Components, Impact on Society
➢ Communication Technology and Internet
➢ Overview of Internet Security, E-mail Threats and Secure E-mail, Viruses and Antivirus Software, Firewalls, Cryptography, Digital Signatures, Copyright Issues.
➢ GOI Digital Initiatives in Higher Education: SWAYAM, Swayam Prabha, National Academic Depository, National Digital Library of India, E-Shodhsindhu, Virtual labs, e-acharya, e-Yantra and NPTEL

Unit IV: Telecommunication and Networks

➢ Tele-communication: Transmission Media, ISDN, Multiplexing, Switching Technique
➢ Networking: Topology and Types of Networks, Standards & Protocols,Network Models (OSI), Networking Devices
➢ Retrieval Standards: Z39.50, SRU/SRW, Bibliographic Management Software like ENDNOTE, REFWORK

RECOMMENDED BOOKS

1. Arora, Ashok & Bansal, Shefali.(2000). Computer Fundamentals. New Delhi: Excel Books.
2. Basandra, Suresh K. (1999). Computer Today. New Delhi: Galgotia Publications.
3. Chandrasekaran, M.; Govindaraju, S.; Huq, A. Abdul & Narayanan, T. R. (1996).Elements of Computer Science. New Delhi : New Age International.
4. Date, C. J. (2003).An Introduction to Database Systems. Pearson Education. New Delhi: BPB Publications,
5. Jain, Madhulika & Jain, Satish.(2007). Introduction to Database Management Systems. New Delhi : BPB Publication.
6. Kumar, P. S. G. (2004). Information and Communication. Delhi: B. R. Publication.
7. Leon, Alexis & Leon, Mathews. (2006). Fundamentals of Database Management Systems. Chennai: Vijan Nicole.
8. Matthew, Neil & Stones, Richard.(2008). Beginning Linux Programming. New Delhi: Wiley India.
9. Prasher, R. G. (2003). Information and its Communication. Ludhiana : Medallion Press.
10. Ramesh Babu, B. &Gopalakrishnan, S. (2004). Information, Communication, Library and Community Development. Delhi : B. R. Publishing.
11. Sinha, Pradeep Kumar & Sinha, Priti. (2007). Computer Fundamentals. New Delhi : BPB Publication.
12. Stallings, William. (2007). Computer Networking with Internet Protocols and Technology. Delhi: Pearson Education.
13. Sybex. (2007). Linux Complete. BPB Publications, 2007: New Delhi.

Course Code	**BLIS3604 B**
Course Title	Media and Publishing Technology
Type of Paper	DSE (Discipline Specific Elective Course)
Credit	4
Teaching Hours	60

Objectives- *To make the students aware of the media and publishing technology.*
Outcome- *After completion of the course, students will be aware of multimedia content creation and future trends and ethical considerations of media and publishing technology.*

Unit I: Introduction to Media and Publishing Technology
- Media and Publishing Technology: Overview, Evolution
- Digital Media Production Tools: Audio, Video, Graphics
- Digital Publishing Formats: eBooks, Online Magazines, Interactive Content
- Publishing Software and Platforms: Adobe InDesign, WordPress
- Copyright Laws and Licensing in Media and Publishing

Unit II: Multimedia Content Creation
- Recording, Editing, and enhancing Audio Content
- Interactive Multimedia Content
- Basics of Animation and Interactive Graphics Design
- Augmented Reality (AR) and Virtual Reality (VR) in Media

Unit III: Digital Distribution and Publishing Platforms
- Online distribution Platforms (YouTube, Vimeo, social media)
- Web Publishing Tools (CMS)
- Leveraging Social Media for Content Promotion and Engagement
- Analyzing Audience Metrics and User Interaction

Unit IV: Trends and Ethical Considerations
- AI, Blockchain, and other emerging technologies in Media
- Privacy concerns and ethical considerations in Digital Media
- Encouraging innovation in Media and Publishing
- Exploring opportunities for Entrepreneurial Ventures in Media Technology

RECOMMENDED BOOKS

1. Karen S. W. Marilynn B, Stone, T. A. (2003). Electronic publishing: The definitive guide. UK: Hard Shell Word Factory.

2. Klostermann, D. (2011). The e-book handbook - A thoroughly practical guide to formatting, publishing, marketing, and selling your e-book. Cambridge: Full Stop.

3. Loton, T. (2011). E-book publishing DIY: the do it yourself guide to publishing e-books, 2nd ed. United States: LOTONtech.

4. Meckler, L. (2011). E-book formatting, self-publishing, marketing tips updated . USA:Linda E meckler on smash words.

5. Sahida, f. k. (2010). Publishing e-book for dummies. USA: CreateSpace

6. Schuster, C. (2011). E-publishing for writers: Trends an opportunities/Fall 2011 (Kindle Edition ed.). UK: Books to Go Now

Course Code	**BLIS3604 C**
Course Title	Data Analytics
Type of Paper	DSE (Discipline Specific Elective Course)
Credit	4
Teaching Hours	60

Objectives- *To make students aware of the different methods of solving optimization problems in the areas of linear programming.*

Outcome- *After completion of the course, students will be aware of various techniques in data analytics.*

Unit I: Introduction to Operations Research (OR)

➢ Historical Development of OR
➢ OR models and Advantages
➢ Methodology of OR, Advantages of OR, Features of OR solution
➢ Applications and Scope of OR

Unit II: Linear Programming Problems (LPP)

➢ Definition of LPP, General Structure of Linear Programming, Formulation of LPP
➢ Advantages and Limitations of Linear Programming
➢ Graphical Solutions of Linear Programming Problems
➢ Simplex Method, Degeneracy, Duality

Unit III: Transportation Problems

➢ Introduction to Transportation Model
➢ Degeneracy in TP, Solution Techniques of TP
➢ Different Methods for Obtaining Initial Basic Feasible Solutions viz. Matrix Minima Method, Row Minima Method, Column Minima Methods, Vogel's Approximation Method, Techniques for Obtaining Optimal Basic Feasible Solution – Steppingstone and MODI Method.
➢ Assignment Problems: Definition, Types of Assignment Problems, Hungarian Method for AP.

Unit IV: Game Theory

➢ Concept of Game problem, Rectangular games. Pure strategy and Mixed strategy
➢ Saddle point and its existence. Optimal strategy and value of the game
➢ Algebraic method, Graphical method and Dominance method of solving Rectangular games.
➢ Inter-relation between the theory of Games and L.P.P

RECOMMENDED BOOKS

1. Operations Research, S D Sharma, KNRN Publication
2. Operations Research, P.K. Gupta and D. S. Hira, Sultan Chand Ltd.
3. Introduction to Operations Research, Hamdy A Taha, PHI Limited, New Delhi.
4. Operations Research, J K Sharma, Macmillan Publication

Course Code	**BLIS3605 A**
Course Title	Library and Information Services
Type of Paper	GE (Generic Elective)
Credit	4
Teaching Hours	60

Objectives- *To familiarize the students with the basic library and information services & systems.*

Outcome- *After completion of the course, students will be able to understand the various information services provided by libraries and information centers and they will get knowledge about national and international information systems.*

Unit I: Introduction to Information Services
- ➢ Concept, Meaning, Definitions
- ➢ Scope and Types of Information Services
- ➢ Traditional Library Services
- ➢ Web enabled library and Information Services
- ➢ Need and Importance of Library Services

Unit II: Types of Information Services
- ➢ Reference Service, Abstracting Service
- ➢ Indexing Service, Current Awareness Service, and Alerting Service
- ➢ Document Delivery Service; Planning and Development of Information Services.
- ➢ Electronic Information Services- e-CAS, e-SDI, Electronic Document Delivery Services

Unit III: Study of Information System
- ➢ Concepts, Objectives, Functions
- ➢ Name of Information Systems
- ➢ Types of Information Systems: Planning, Design and Evaluation of Information Systems
- ➢ Study of National Information Systems- NISCAIR, DESIDOC, and NASSDOC

Unit IV: Study of Global Information System
- ➢ Objective and Functions of Global Information Systems
- ➢ Study of Global Information Systems: INSPEC, MEDLARS, BIOSIS, COMPENDEX, AGRIS

RECOMMENDED BOOKS

1. Carmel, Maguire., Weir, Anthony D., Kazlauskas, Edward J. (2013). Information Services for Innovative Organizations. Emerald Group Publishing Limited
2. Krishan Kumar: Reference service, New Delhi: Vikas, 1990.
3. Lucas, Amy (Ed): Encyclopedia of Information Systems and Services, Detroit: Gale Research, 1989.
4. Parida, Baman: Studies on information systems, services, and programs in India and abroad. Delhi: Ajantha, 1993.
5. Ryan, Brendan. (2014). Optimizing Academic Library Services in the Digital Milieu: Digital Devices and their Emerging Trends / 1st ed. Chandos Publishing:
6. Rawley, Jennifer: Abstracting and Indexing services, 1988.
7. Sandra Hirsh. (2015). Information Services Today: An Introduction/ 1st ed., Rowman & Littlefield,
8. Smith, Linda C., & Wong, Melissa A. (2010). Reference and Information Services: An Introduction, / 5th ed., Libraries Unlimited,
9. Vickery, B: Information Systems, London: Butterworths, 1987.

Course Code	**BLIS3605 B**
Course Title	Internet Resource and Services
Type of Paper	GE (Generic Elective)
Credit	4
Teaching Hours	60

Objectives- *To make the students aware of Internet and its related technologies in daily use.*
Outcome- *After completion of the course, students will be aware of well use of Internet technology for learning.*

Unit I: Internet: An Overview
➢ Internet: Introduction, Historical Development and Scope of Internet
➢ Internet Architecture: H/W & S/W Components
➢ Client/Server Principle, Routers, Connection Types, ISP, Protocols, Uniform Resource Locator, IP Address
➢ Domain Name System

Unit II: Web Languages & Web Browsers
➢ Web: Introduction, History and Functions
➢ Web Languages: HTML, XML, CSS, ASP, JavaScript, PHP
➢ Web Browsers: Internet Explorer, Mozilla Firefox, Google Chrome

Unit III: Intranet & Internet Security
➢ Intranet: Components, Prerequisites and Services
➢ Extranet: Components, Prerequisites and Services
➢ Internet Security: Types of Security, Firewalls, Anti-Virus, Anti-Spyware

Unit IV: Internet Tools & Services
➢ Communication Tools: Email, Telnet, Discussion Groups
➢ Search Tools: Gopher, Veronica, Jughead, Archie, Search Engines
➢ Content Enriching Services: Blogs, Wikis, Social Community Websites

RECOMMENDED BOOKS

1. Bates, Chris. (2006). Web Programming: Building Internet Applications. 3rded. New Delhi: Wiley-India.
2. Crumlish BLIS, Christian. (2007). The ABCs of the Internet. New Delhi: BPB Publications.
3. Hartl, Michael and Prochazka, Aurelius. (2007). Rails Space: Building a Social Networking Website with Ruby on Rails. Addison-Wesley Professional.
4. Kalbach, James. (2007). Designing Web Navigation: Optimizing the User Experience. Sebastopol: O'Reilly Media.
5. Miller, Joseph B. (2008). Internet Technologies and Information Services (Library and Information Science Text Series).Libraries Unlimited.
6. Morville, Peter and Rosenfeld, Louis. (2006). Information Architecture for the World Wide Web: Designing Large-Scale Web Sites. 3rd ed. Sebastopol: O'Reilly Media.
7. Nair, R. Raman. (2002). Internet for Information Services. New Delhi: Ess Ess Publications.
8. Robbins, Jennifer Niederst. (2012). Learning Web Design: A Beginner's Guide to HTML, CSS, JavaScript, and Web Graphics. 4th ed. Sebastopol: O'Reilly Media.
9. Sehgal, R. L. (2000). Internet and Internet for Librarians. New Delhi: Ess Ess Publications.
10. Russell, Jesse and Cohn, Ronald (eds.). (2012). Web Browser. Book on Demand Ltd.
11. Stallings, William. (2007). Computer Networking with Internet Protocols and Technology. Delhi: Pearson Education.
12. Weinberg, Tamar. (2009). The New Community Rules: Marketing on the Social Web. Sebastopol: O'Reilly Media.

Course Code	**BLIS3606**
Course Title	Re-Envisioning of Law Library
Type of Paper	IAPC (Internship/Apprenticeship/Project/Community Outreach)
Credit	2
Teaching Hours	30

Objectives- *To make the students aware of new perspectives and strategies for designing, managing, and enhancing law libraries in various contexts.*

Outcome- *After completion of the course, students will be able to understand the importance of law libraries with a new perspective.*

Unit I: Law Libraries in Contemporary Contexts

- Definitions, Characteristics, Functions
- Historical Evolution
- Specific Needs and User Communities of Law Libraries
- Digital Transformation and its Impact on Law Libraries
- Challenges in Collection Development, Resource Management, and Information Dissemination

Unit II: Innovating and Enhancing Law Libraries

- Designing Flexible and Collaborative Spaces
- Curating and Promoting Digital Collections
- Strategies for Effective Content Discovery and Access
- Knowledge Sharing, Documentation, and Retention in Law Libraries

RECOMMENDED BOOK

1. https://escholarship.org/content/qt5fx7r5p7/qt5fx7r5p7_noSplash_529b3faa6c1383f2cccf4fa63e05d2a2.pdf
2. https://egyankosh.ac.in/bitstream/123456789/39094/1/Unit-2.pdf
3. Frederic D Donnelly (Ed). The Law Library: A Living Trust, Institute of Law Librarians, 1963, Chicago.
4. Edwin C. Surreney, Benjamin Feld and Joseph Crea, A Guide to Legal Research, New York, 1959.
5. Legal Research in a Nutshell, West Publishing co. Minnesata 1978.

Course Code	**BLIS3607**
Course Title	Web Based Information Systems and Services (Practice)
Type of Paper	Skill Enhancement Course (SEC)
Credit	2
Teaching Hours	30

Objectives- *To acquaint the students with the HTML/CSS, Bootstrap, JS, practical of various types of library resources.*

Outcome- *After completion of the course, students will be able to develop Website Designing.*

Unit I: Designing with HTML/CSS
  ➢ HTML
  ➢ CSS
  ➢ Bootstrap
  ➢ jQuery

Unit II: Designing with Scripts
  ➢ JavaScript
  ➢ React JS
  ➢ Node JS
  ➢ Express JS

Hands-on experience on Unit-I and II

   A. Practical written test on Unit-I and II - **40 Marks**

   B. Viva Voce- **20 Marks**

Course Code	**BLIS3608 A**
Course Title	Technical Writing
Type of Paper	MENC (Mandatory Elective Non-Credit Course)
Credit	-
Teaching Hours	30

Objectives- *To acquaint students with Communication Process, Planning and Organisation of Technical / Scientific Writing, Technical Editing and Editorial Tools, Publication Processand Ethics.*

Outcome- *After completion of the course, students will be confident about Communication Process, Planning and Organisation of Technical / Scientific Writing, Technical Editing and Editorial Tools, Publication Process and Ethics.*

Unit I: Planning and Organisation of Technical / Scientific Writing

➢ Definition, Structure, Purpose, Characteristics, and Functions.
➢ Aberrations in Technical Writing
➢ Collection, Organisation, and Presentation of Data including Illustrations.
➢ Cast Studies: Preparation of Short Communications, Review Articles, Technical Report, Monographs, Project proposals, Dissertations, and House Bulletins.

Unit II: Technical Editing and Editorial Tools

➢ Editor, Editorial process, Editorial Tools
➢ Planning, Preparation, Production of Technical Information products.
➢ Dissemination of Technical Information Products.
➢ Publication Ethics: Copy Right, IPR, Legal Issues and Professional Ethics

RECOMMENDED BOOKS

1. Elbow, Peter. Writing without teachers. New York. Oxford University Press. 1973.
2. Gowers, Sir. Ernest. The complete plane words. London: HMSO. 1954.
3. Holsinger, Donald C. A classroom laboratory for writing history. Social studies review.31(1), 1991. pp. 59 64.
4. Kapp, Ro. The presentation of technical information. London: Constable 1948.
5. Kirkman, John. Good style for scientific and engineering writing. London: Pitman. 1980.
6. Parry, John. The psychology of human communication. London. University of London Press. 1967.
7. Ramage John D and Bean John C. The allyn and bacon guide to writing. 2ed. London, Allyn and Bacon. 2000. pp. 658.
8. Turk, Christopher and Kirkman, John. Effective writing: Improving scientific, technical, and business communication. 2ed. London: Spon Press. 2007.
9. Winokur, Jon. Ed. Writers on Writing. Philadelphia running press: 1986.

Course Code	**BLIS3608 B**
Course Title	Disaster Management
Type of Paper	MENC (Mandatory Elective Non-Credit Course)
Credit	-
Teaching Hours	30

Objectives*- To make students aware of the disaster management, its types and techniques to manage disaster.*

Outcome- *After completion of the course, students will be aware of the techniques of disaster management, various training and awareness programs and projects on disaster management.*

Unit I: Disaster Management

➢ Hazards and Disasters, Risk and Vulnerability in Disasters,
➢ Natural and Man-made Disasters, Earthquakes, Floods Drought, Landslide, Land subsidence, Cyclones, Volcanoes, Tsunami, Avalanches, Global Climate Extremes.
➢ Man-made Disasters: Terrorism, Gas and Radiations Leaks, Toxic Waste Disposal, Oil Spills, Forest Fires.
➢ Usages of GIS and Remote Sensing Techniques in Disaster Management
➢ Mini Project on Disaster Risk Assessment and Preparedness for Disasters

Unit II: Mitigation and Management Techniques of Disaster

➢ Basic Principles of Disaster Management
➢ Disaster Management Cycle, Disaster Management Policy,
➢ National and State Bodies for Disaster Management,
➢ Early Warming Systems, Building Design and Construction in Highly Seismic Zones, Retrofitting of Buildings.
➢ Training and Drills for Disaster Preparedness
➢ Awareness Generation Program

RECOMMENDED BOOKS

1. Disaster Management Guidelines, GOI-UND Disaster Risk Program (2009-2012)
2. Damon, P. Copola, (2006) Introduction to International Disaster Management, Butterworth Heineman.
3. Gupta A. K., Niar S.S and Chatterjee S. (2013) Disaster management and Risk Reduction, Role of Environmental Knowledge, Narosa Publishing House, Delhi.
4. Murthy D.B.N. (2012) Disaster Management, Deep and Deep Publication PVT. Ltd. New Delhi.
5. Modh S. (2010) Managing Natural Disasters, Mac Millan publishers India LTD.

Course Code	**BLIS3609**
Course Title	Internship
Type of Paper	Internship
Credit	4
Teaching Hours	60

Objectives:
  i. *To train the students in practical librarianship in the working environment of the library by deputing them in different types of libraries for a period of one month; and*
  ii. *To train them in preparing the Internship Report in a prescribed format based on their practical training and learning.*

Outcome: *After completion of the course, students will be able to works in Library without any hesitation.*

The work for paper shall start in the beginning of the SIXTH semester for which each student will be allotted a topic for writing the Report. The Report will be submitted at the end of SIXTH semester on the date to be decided by the Department.

A. Report on Internship Programme – **40 Marks**
B. Viva-Voce – **20 Marks**

IVth-Year, SEMESTER-VII

Course Code	**BLIS3701**
Course Title	Research and Publication Ethics
Type of Paper	Core/DSC (Discipline Specific Core Course) Compulsory
Credit	4
Teaching Hours	60

Objectives *- To make students aware of the research and publication ethics. This course focuses on basics of philosophy of science and ethics, research integrity, publication ethics.*
Outcome- *After completion of course, students will be aware about philosophy of science and ethics, research integrity, publication ethics.*

Unit I: Philosophy and Ethics

- ➢ Philosophy: Definitions, Nature and Scope
- ➢ Branches of Philosophy
- ➢ Ethics: Definitions, Moral Philosophy
- ➢ Nature of Moral Judgements and Reactions

Unit II: Scientific Conduct

- ➢ Ethics with Respect to Science and Research
- ➢ Intellectual Honesty and Research Integrity
- ➢ Scientific Misconducts: Falsification, Fabrication, and Plagiarism (FFP)
- ➢ Redundant Publications: Duplicate and Overlapping Publications, Salami Slicing
- ➢ Selective Reporting and Misrepresentation of Data

Unit III: Publication Ethics

- ➢ Publication Ethics: Definitions and Importance
- ➢ Best Practices / Standards setting Initiatives and Guidelines: COPE, WAME, etc.
- ➢ Conflicts of Interest
- ➢ Publication Misconduct
- ➢ Violation of Publication Ethics, Authorship and Contributorship
- ➢ Identification of Publication Misconduct, Complaints and Appeals
- ➢ Predatory Publishers and Journals

Unit IV: Open Access Publishing

- ➢ Open Access Publications and Initiatives
- ➢ SHERPA/RoMEO Online Resource to Check Publisher Copyright & Self-Archiving Policies
- ➢ Software Tool to Identify Predatory Publications Developed by SPPU
- ➢ Journal Finder / Journal Suggestion Tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggester, etc.

RECOMMENDED BOOKS

1. Bird, A. (2006), Philosophy of Science, Routledge.
2. Maclntyre, Alasdair (1967) A Short History of Ethics. London
3. P. Chaddah, (2018) Ethics in Competitive Research: Do not get scooped; do not get plagiarized, ISBN:978-9387480865
4. National Academy of Science, National Academy of Engineering and Institute of Medicine. (2009). On Being a Scientist: A Guide to Responsible Conduct in Research: Third Edition, National Academies Press.
5. Resnik, D.B. (2011), what is ethics in research & why is it important. National Institute of Environmental Health Science, 1-10. Retrieved from https://www.niehs.nih.gov/research/resources/bioethics/whatis/index.cfm
6. Beall, J. (2012). Predatory publishers are corrupting open access. Nature, 489(7414), 179-179.
7. https://doi.org/10.1038/489179a
8. Indian National Science Academy (INSA), Ethics in Science Education, Research and Governance (2019)
9. ISBN:97881939482-1-7. http://www.insaindia.res.in/pdf/Ethics_Book.pdf

Course Code	**BLIS3702 A**
Course Title	Research Methodology
Type of Paper	DSE (Discipline Specific Elective Course)
Credit	4
Teaching Hours	60

Objectives- *To make the students aware of the research methodology concepts, definitions, and various techniques used for data analysis in research.*

Outcome*- After completion of course, students will be aware of implications of research and confident to take up research work.*

Unit I: Foundations of Research and Research Design
- ➢ Concept, Meaning, Need and Process of Research
- ➢ Types of Research: Fundamental and Applied
- ➢ Research Design, Types of Research Design
- ➢ Designing Research Proposal, Literature Search and Literature Review

Unit II: Research Methods
- ➢ Types of Research: Qualitative and Quantitative method of LIS research
- ➢ Scientific Method
- ➢ Historical Method, Survey and Case Study Method
- ➢ Experimental Method

Unit III: Data Analysis and Interpretation
- ➢ Data Collection Techniques: Questionnaire, Interview, Observation, Sampling and Delphi
- ➢ Presentation of Data-Tables, Charts and Graphs
- ➢ Interpretation of Data: Frequency Distribution, Measures of Central Tendency, Analysis of Time Series, Co-relation Studies, and Analysis of Variance
- ➢ Use of Statistical Packages

Unit IV: Statistics and its Applications
- ➢ Descriptive Statistics – Measures of Central Tendency: & Dispersion, Correlations and Linear Regression, Chi-Square Test, t-test, z-test, f-test
- ➢ Presentation of Data: Tabular, Graphic, Bar Diagram and Pie Chart, etc. Report Writing Statistical Packages – MS-Excel, SPSS, and Web-Based Statistical Analysis Tools, etc.
- ➢ Plagiarism- Self Plagiarism, Anti-Plagiarism Guidelines and Software
- ➢ Metric Studies - Scientometrics, Informetric and Webometrics
- ➢ Style Manuals- Manual Structure, Style, Contents- MLA, APA, CHICAGO.

RECOMMENDED BOOKS

1. Booth, W. C., Williams, J. M. and Colomb, G. G. (2003). The Craft of Research. University of Chicago Press.
2. Borgman, Christie L., ed. (1990). Scholarly Communication and Bibliometrics. Newbury Park, CA: Sage Publications, Inc.
3. Brady, John. (1997). The Craft of Interviewing. New York: Vintage.
4. Busha, Charles H. and Harter, Stephen P. (1980) Research Methods in Librarianship. New York: Academic Press.
5. Davis, GB (1997) Management Information System: Concept, Foundation Structure and Development. New York: McGraw Hill.
6. Gillham, Bill. (2000). The Research Interview. London: Continuum Press.
7. Gupta, B. M. (1996). Bibliometrics, Scientometrics and Infometrics. New Delhi: Segment Books.
8. Khanna, J K (2000) Documentation and Information Services, Systems and Techniques. Agra: YK Publishers.
9. Kish, Leslie. (1995). Survey Sampling. New York: Wiley.
10. Marshall, Catherine and Rossman, Gretchen B (2006). Designing Qualitative Research. Sage USA.
11. Nielsen, Jakob. (2000). Designing Web Usability. New Riders, USA.
12. Payne, Stanley. (1951). The Art of Asking Questions. Princeton University Press.
13. Raju, Nemani Govinda. (2009). Bibliometric Applications: Study of Literature Use Patterns
14. Rea, Louis M and Parker , Richard A. (2005). Designing and Conducting Survey Research, San Francisco: Jossey-Bass.
15. Reinard , John C. (2006). Communication Research Statistics. Sage, USA.
16. Rowntree, Derek. (2003). Statistics without Tears: A Primer for Non-Mathematicians. London: Penguin.
17. Rubin, Herbert and Irene. (2004). Qualitative Interviewing: The Art of Hearing Data. Sage, USA.
18. Sudman, Seymour (1976). Applied Sampling. New York: Academic Press.

Course Code	**BLIS3702 B**
Course Title	Digital Library
Type of Paper	DSE (Discipline Specific Elective Course)
Credit	4
Teaching Hours	60

Objectives- *To make the students aware with content management concepts, content developing strategies and digitization in library.*

Outcome*- After completion of the course, students will be able to understand the content management, content developing strategies and digitization of information resources.*

Unit I: Digital Library
- Definitions, Fundamentals and Theoretical aspects; Characteristics of Digital Libraries and Nature of Digital Library Collections
- Major Digital Library Initiatives
- Design and Organization of Digital Libraries: Architecture, Interoperability, Protocols, and Standards; User Interfaces

Unit II: Digital Resource Management
- Digital Content Creation: Electronic documents, files & formats & conversion to PDF
- Digital Resources Management; Access to and Use of Digital Libraries
- Digital Storage, Archiving and Preserving Digital Collections

Unit III: Digital Library Architecture
- Digital Library: Elements
- DOI, Open URL, Cross Reference and other aspects, Metadata, MARC 21, Dublincore, Access Control and DRM, Security, and Parameter Issues

Unit IV: Digital Library & Institutional Repository Software
- Digital Library Software: Concept, Definitions, Types, Characteristics
- Installation and Developing Collection using DSpace, GSDL
- Copyright Issues in Development of Digital Library Software

RECOMMENDED BOOKS

1. Arthur, M.H. (2006). Expanding a digital content management system for the growing digital media enterprise. Boston: Elsevier Focal Press.
2. Barrie, M. N. (2009). Joomla! 1.5: a user's guide: building a successful Joomla! Powered website. Upper Saddle River, NJ: Prentice Hall.
3. Bishop, A. P. et al. (eds.). (2005). Digital Library Use: Social Practice in Design and Evaluation. Delhi: Ane Books.
4. Bradford, L. E. (2008). Content management systems in libraries: case studies. Lanham, MD: Scarecrow Press.
5. Chowdhury, G. G. & Chowdhury, Sudatta. (2003). Introduction to Digital Libraries. London: Facet.
6. Cooper, Michael D. Design of Library Automation Systems: File Structure, Data Structures and Tools, New York: John Wiley, 1996.
7. Deegan, Marilyn & Tanner, S. (2006). Digital Preservation. London: Facet Publishing.
8. Hal Stern, Brad Williams and David Damstra. (2010). Professional WordPress: design anddevelopment. Indianapolis, IN: Wiley Pub., Inc.
9. Janet Majure. (2010). Teach yourself visually WordPress. Indianapolis, IN: Wiley Pub., Inc.
10. Jason, C. and Helen, F. (2008). Using Moodle. Sebastopol, CA: O'Reilly Community Press.
11. Jen, K.P. and Sarah, E. (2010). Joomla! Start to finish. Indianapolis, IN: Wiley Pub., Inc.
12. Jennifer Marriott and Elin Waring. (2011). The official Joomla! Book. Upper Saddle River, NJ: Addison-Wesley.
13. John M. Cohn, Ann L. Kelsey and Keith Michael Fiels, Planning for Library automation:A Practical Handbook London: Library Association, 1998.
14. John M. Colon, Annl Kelsey, Keith Michael Fiels. Planning for Automation: A How-to-do-it for Librarian. 2nd ed.(S.I.): Neal-Schuman, 1997.
15. Jones, Richard et al. (2006). The Institutional Repository. Oxford: Chandos Publishing.
16. Judith, Andrews & Derek, Law. (2004). Digital Libraries. Hants: Ashgate.
17. Kausik Bose Information Networks in India: Problems and Prospects / New Delhi: EssEss Publications, 1994.

Course Code	**BLIS3702 C**
Course Title	Change Management
Type of Paper	DSE (Discipline Specific Elective Course)
Credit	4
Teaching Hours	60

Objectives- *To make the students aware with concepts of change and change management, its types and principles.*
Outcome*- After completion of the course, students will be able to understand concepts of change and change management, its types, principles and also how to manage change.*

Unit I: An Introduction to Change Management

➤ Management: Concept, Definitions
➤ Functions of Management
➤ Change Management
➤ Need for Changes: Internal forces & External forces.

Unit II: Change Management

➤ Types of Change
➤ Change Management Process
➤ Strategies for Change Management
➤ Resistance to Change

Unit III: Issues and Challenges in Change Management

➤ Responsibility for Managing Change
➤ Role of the People in Change Management
➤ Issues and Challenges in Change Management
➤ Change Management Principles

Unit IV: Managing Change

➤ Consent to Change
➤ Psychological Contract and People Organizational Relationship
➤ Change Management in LICs
➤ Kotter's 'Eight Steps to Successful Change'

RECOMMENDED BOOKS

1. https://egyankosh.ac.in/bitstream/123456789/35878/5/Unit-3.pdf
2. https://egyankosh.ac.in/bitstream/123456789/21327/1/Unit-2.pdf
3. Abrahamson, Eric. "Change Without Pain". Harvard Business Review 78.4 (2000):75-79. Print.
4. Auldey, Genus. Management of Change: Perspective and Practice. London: International Thomson Business Press, 1998. Print.
5. Bailey, John. Communicating Change. London: McGraw-Hill, 1995. Print.
6. Managing People and Technological Change. Long-Acre: Pitman, 1993. Print.
7. Bryson, J. Effective Library and Information Centre Management. 2nd Ed. Aldershot: Gower, 1999. Print.
8. Carnall, Colin A. Managing Change in Organisation. New York: Prentice Hall, 1990. Print.
9. Cole, G.A. Management Theory and Practice. 5th Ed. London: Continuum, 1996. Print.
10. Fred Luthans, (1998). Organizational Behaviour, International Eighth edition, Irwin McGraw Hill. Robbins, S.P. (1994). Organizational behaviour, concepts, controversies and applications, 6th edition, N.J. Prentice Hall.
11. Schultz, D.P. and Schultz, S.E.(1990). Psychology and Industry today, An introduction to industrial and organizational psychology, 5th edition, NY. McMillon.

Course Code	**BLIS3702 D**
Course Title	Project Management
Type of Paper	DSE (Discipline Specific Elective Course)
Credit	4
Teaching Hours	60

Objectives- *To develop critical thinking and knowledge in project management and to provide the students with analytical skills for solving problems relating to project management.*
Outcome- *After completion of the course, students will be able to understand project management and develop analytical skills for solving problems relating to project management.*

Unit I: Project Management an Overview

- ➢ Project Management: Concept, Definitions, Need
- ➢ The Project Life Cycle
- ➢ Project Interfaces
- ➢ Success Factors in Project Management

Unit II: Project Management Information System (PMIS)
- ➢ Objectives of PMIS
- ➢ Planning by Network Analysis: Resource Allocation, WBS.
- ➢ Cost Control System
- ➢ Project Monitoring & Reporting

Unit III: Strategic Management and Project Selection
- ➢ Project Selection and Criteria
- ➢ Types of Project Selection Models
- ➢ Nature of Project Selection Models
- ➢ Functions, Roles and Responsibilities of a Project Manager

Unit IV: Tools and Techniques of Project Management
- ➢ Project Execution Plan (PEP)
- ➢ PERT/ CPM
- ➢ Time Estimation

RECOMMENDED BOOKS

1. https://dde.pondiuni.edu.in/files/StudyMaterials/MBA/MBA3Semester/Finance/4ProjectManagement.pdf
2. https://ebooks.lpude.in/management/mba/term_3/DMGT521_PROJECT_MANAGEMENT.pdf
3. https://egyankosh.ac.in/handle/123456789/17452
4. https://egyankosh.ac.in/bitstream/123456789/10726/1/Unit-1.pdf
5. https://egyankosh.ac.in/bitstream/123456789/10764/1/Unit-11.pdf
6. Davis GB & Olson M.H., Management Information Systems, McGraw- Hill International Editors
7. McRae. TW, Management Information Systems- Selected Readings, Penguin.
8. https://egyankosh.ac.in/bitstream/123456789/10764/1/Unit-11.pdf

Course Code	**BLIS3702 E**
Course Title	Indian Culture and Tradition
Type of Paper	DSE (Discipline Specific Elective Course)
Credit	4
Teaching Hours	60

Objectives- *To make the students aware with the Indian culture and tradition, its meaning, sources of study of Indian culture etc.*

Outcomes- *After completion of the course, students will be able to understand about Indian culture and traditions in detail. It will also help them to develop an understanding towards pre-historic cultures, proto-historic cultures, Vedic & Post-Vedic periods, etc.*

Unit I: Meaning and Concepts of Culture

- ➢ Traditional and Modern Concepts of Culture
- ➢ Elements of Culture, Concept of Indianness and Value System
- ➢ Relation Between Culture and Civilization
- ➢ Heritage of India and World's Debt to Indian Culture

Unit II: Sources of the Study of Indian Culture

- ➢ Archaeological: Cultural Remains, Monuments, Numismatics, Epigraphy
- ➢ Literary Sources and Oral Traditions
- ➢ Foreign Accounts
- ➢ Archival Sources

Unit III: Pre-Historic and Proto-Historic Cultures

- ➢ Stone Age Cultures- Paleolithic, Mesolithic and Neolithic;
- ➢ Proto-Historic Cultures - Chalcolithic Horizon, Harappan Culture- Current Debates on Nomenclature and Scripts
- ➢ Town Planning and Architecture, Art, Social, Religious and Economic Life
- ➢ Evolution of India's Main Language Families

Unit IV: Vedic and Post-Vedic Period

- ➢ Early Vedic and Later Vedic Ideas and Institutions: Social, Religious, Economic, Political and Scientific
- ➢ Post Vedic– Religious Movements and Emergence of States
- ➢ Shramana Traditions- Buddhism, Jainism, Ajivikas and Other Sectors
- ➢ Education System and Centres– Taxila and Kashi

RECOMMENDED BOOKS

1. https://egyankosh.ac.in/bitstream/123456789/47224/1/Unit-1.pdf
2. https://www.nios.ac.in/media/documents/SecICHCour/English/CH.02.pdf
3. https://ddceutkal.ac.in/Syllabus/MA_history/paper-8-N.pdf
4. Gore, M. S., Unity in Diversity: The Indian Experience in Nation-Building, Rawat Publication, Jaipur, 2002.
5. Malik, S. C., Understanding Indian Civilization: A Framework of Enquiry, Indian Institute of Advanced Study, Shimla, 1975.
6. Mukerji, D. P., Sociology of Indian Culture, Rawat Publications, Jaipur,1948/1979.
7. Pandey, Govind Chandra, Foundations of Indian Culture, Books and Books, New Delhi, 1984.
8. Dube, S.C. 1990.Indian Society New Delhi: National Book Trust, India.
9. Majumdar, R.C. (ed.).1951. The Vedic Age, London.
10. Kochhar, Rajesh 2000. The Vedic people: Their history and geography. New Delhi: Orient Longman Limited.
11. Luniya, B.N., Evolution of Indian Culture. 4th Ed. Lakshmi Narain Agarwal, Agra, 1967.

Course Code	**BLIS3703**
Course Title	Library Minor Project/ Dissertation
Type of Paper	VAC (Value- Added Course)
Credit	6
Teaching Hours	90

Objectives- *To make the students aware about writing a library project/ dissertation.*
Outcome- *After completion of the course, students will be aware about library project/ dissertation writing.*

Dissertation work shall start in the beginning of the SEVENTH semester for which each student will be allotted a topic for writing the Dissertation. The Dissertation will be submitted at the end of SEVENTH semester on the date to be decided by the Department.

A. Dissertation Evaluation by External and Internal Examiner: **25 X 2 = 50 Marks**
B. Viva-Voce: **25 X 2 = 50 Marks**
C. Total: A + B = **100 Marks**

Course Code	**BLIS3704**
Course Title	Internship
Type of Paper	Internship
Credit	8
Teaching Hours	120

Objectives-
   i. *To train the students in practical librarianship in the working environment of the library by deputing them in different types of libraries for a period of one month; and*
   ii. *To train them in preparing the Internship Report in a prescribed format based on their practical training and learning.*

Outcome- *After completion of the course, students will be able to work in Library without any hesitation.*

The work for paper shall start in the beginning of the SEVENTH semester for which each student will be allotted a topic for writing the Report. The Report will be submitted at the end of SEVENTH semester on the date to be decided by the Department.

   A. Report on Internship Programme – **40 Marks**
   B. Viva-Voce – **20 Marks**

Course Code	**BLIS3705 A**
Course Title	LIS Research
Type of Paper	MENC (Mandatory Elective Non-Credit Course)
Credit	-
Teaching Hours	30

Objective- *To make the students understand about the development of research in the field of LIS.*
Outcome- *After completion of the course, students will be able to understand the concepts of research in the field of LIS.*

Unit I: Development of Research in LIS

➢ Beginning of LIS Education
➢ Research in LIS
➢ Relevance of Research in LIS
➢ Ranganathan's Work

Unit II: Research Tools and Techniques in Library Science

➢ Research Process
➢ Questionnaire Method
➢ Observation Method
➢ Interview Method
➢ Recent Trends in LIS Research

RECOMMENDED BOOKS

1. https://files.eric.ed.gov/fulltext/EJ1311932.pdf
2. https://egyankosh.ac.in/bitstream/123456789/11204/1/Unit-1.pdf
3. Best, John W and Kahn James, V. (1999). Research in Education. 2nd ed. New Delhi: Prentice Hall of India.
4. Busha, Charles H and Harter, Stephen H (1988). Research Methods in Librarianship: Techniques and Interpretations. New York: Academic Press.
5. De Vaus, David (2001). Research Design in Social Research. New Delhi: Sage Publications.
6. Encyclopedia of Library and Information Science (1978). Ed. by Allen Kent [et al.] Research Methodology. V. 25. New York: Marcell Dekker.
7. Ghosh B N (1984). Scientific Method and Social Research. 2nd ed. Delhi: Sterling.
8. Goode, William J and Hart, Paul K (1981). Methods of Social Research. London: McGraw Hill.
9. Kerlington, Fred. Ed.(1964). Foundations of Behavioural Research, Educational and Psychological Inquiry. New York: Rinehart and Winston.

Course Code	**BLIS3705 B**
Course Title	Organisational Behaviour
Type of Paper	MENC (Mandatory Elective Non-Credit Course)
Credit	-
Teaching Hours	30

Objectives- To make the students understand about the individuals and groups behaviour inside the organizations.

Outcomes- After completion of the course, students will be skilled in understanding and appreciating individuals, interpersonal, and group process for increased effectiveness both within and outside of organizations.

Unit I: Focus and Purpose

➢ Definition, Need and Importance of Organizational Behaviour – Nature and Scope – Frame Work –Organizational Behavior Models
➢ Organization and the Environmental Factors
➢ Organizational Theory, Organizational Behavior Modification
➢ Misbehavior –Types

Unit II: Individual Behavior and Group Behaviour

➢ Personality – Types – Factors Influencing Personality – Theories
➢ Attitudes – Characteristics – Components – Formation – Measurement- Values
➢ Perceptions – Importance – Factors Influencing Perception – Interpersonal Perception- Impression Management. Emotions and Moods in Workplace
➢ Organization Structure – Formation – Groups in Organizations – Influence – Group Dynamics –Interpersonal Communication
➢ Team Building - Interpersonal Relations – Group Decision Making Techniques.
➢ Meaning of Conflict and its Types, Conflict Redressal Process

RECOMMENDED BOOKS

1. Human Behavior at work by Keith Devis
2. Organizational Behavior; Concepts, Skills and Practices by Kinicki Kreitner
3. Dimension of Organizational Behavior by T. Herbert
4. Organization & Management by R. D. Agrawal
5. Organizational Behavior and Performance by Aszilagyl & Walace
6. Organizational Behavior by K. Aswathapa
7. Organizational Behavior by Jit Chandan
8. Organizational Behavior by V. Ghosh
9. Organizational Behavior by Gregory Morehead
10. Organizational Behavior by Fred Luthans
11. Organizational Behavior by Rosy Joshi
12. Organizational Behavior by Stephen Robbins

IVth-Year, SEMESTER-VIII

Course Code	**BLIS3801**
Course Title	Information Communication Technology: Application
Type of Paper	Core/DSC (Discipline Specific Core Course) Compulsory
Credit	4
Teaching Hours	60

Objectives- *Students will gain experience with a range of ICT tools and platforms, enabling them to effectively use and apply technology to solve real-world problems.*

Outcome- *By the end of the course, students would be able to demonstrate proficiency in using various ICT tools and platforms. Evaluate the ethical, social, and security implications of ICT applications. Collaborate and communicate effectively using ICTs.*

Unit I: Introduction to Information Communication Technologies

➢ Overview of ICTs and their Significance
➢ Evolution of Technology and Impact on Society
➢ Digital Literacy and Technology Skills

Unit II: Productivity and Collaboration Tools

➢ Using Office Suites (e.g., Microsoft Office, Google Workspace)
➢ Collaborative Document Editing and Cloud Storage
➢ Project Management Tools and Techniques

Unit III: Web and Multimedia Applications

➢ Creating and Maintaining Websites (e.g., WordPress, Wix)
➢ Graphic Design and Image Editing Tools
➢ Introduction to Audio and Video Editing

Unit IV: Data Management and Analysis

➢ Introduction to Data Management
➢ Spreadsheet Applications (e.g., Microsoft Excel, Google Sheets)
➢ Basic Data Analysis and Visualization Tools

RECOMMENDED BOOKS

1. https://ncert.nic.in/vocational/pdf/iees103.pdf
2. Kumar, P. S. G. (2004). Information and Communication. Delhi: B. R.Publication.
3. Database Management Systems (3rd Edition). Raghu Ramakrishnan and Johannes Gehrke. McGraw Hill, 2003.
4. https://cs.uwaterloo.ca/~gweddell/cs348/1-overview-handout-notes.pdf
5. https://www.egyankosh.ac.in/handle/123456789/971
6. https://www.manage.gov.in/studymaterial/PM.pdf

Course Code	**BLIS3802 A**
Course Title	Special Library and Information System
Type of Paper	DSE (Discipline Specific Elective Course)
Credit	4
Teaching Hours	60

Objectives- *To make the students aware of the objectives, development, collection development, organisational structure, services, financial and HRM of Special Library and Information System.*

Outcome- *After completion of the course, students will be aware of objectives, development, collection development, organisational structure, services, financial and HRM of Special Library and Information System.*

Unit I: Special Libraries and their Development
➢ Objectives and Functions
➢ Development of Special Libraries
➢ Role of Government, Committees and Other Agencies in the Development of Special Libraries in India

Unit II: Collection Development and Management
➢ Books and Periodicals
➢ Conference Literature, Grey Literature and Government Publications
➢ Non-Book Materials: Electronic-Resources, Databases

Unit III: Library Organization and Services
➢ Organizational Structure of Special Library
➢ Staff Manual, Library Surveys, Statistics and Standards, etc.
➢ CAS, SDI, Abstracting and Indexing Services, Library Bulletin
➢ Resource Sharing and Networking

Unit IV: Financial and Human Resource Management
➢ Determination of Finance, Sources of Finance
➢ Types of Budgets
➢ Nature, Size, Selection, Recruitment, Qualification and Training
➢ Responsibilities and Duties
➢ Competency Development Case Study of Special Libraries in India

RECOMMENDED BOOKS

1. https://egyankosh.ac.in/bitstream/123456789/33045/1/Unit-8.pdf
2. https://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/S000021LI/P000102/M0 04257/ET/1498804480ModuleIDSRL-1-etext-SpecialLibraryCharacteristicsandFunctions.pdf
3. Ahrenfield, J.L. [et al]. (1981). Special Libraries: A Guide for Management. New York: Special Library Association.
4. Gates J.K. (1968). Introduction to Librarianship. New York: Mc-Graw-Hill.
5. Harvey, Joan M. (1976). Specialist Information Centres. London: Clive Bingley
6. Kent, Allen (et.al) (ed.) (1980). Encyclopedia of Library and Information Science, Vo1.28. pp.386-97: New York: Marcel Dekkar
7. Silve, Manil (1970). Special Libraries: Andre Deutsch (Grfton Basic Texts): London.
8. Strauss, L.J. (et.al) (1964). Scientific and Technical Libraries: Their Organisation and Administration. New York: Inter Science Publication.
9. Weisman, Herman M. (1972). Information Systems, Services and Centres. New York: BeckBr and Hayes.
10. Dana, J. C. (1991). The evolution of special library. In C. A. Hanson, ed. Librarian at large: Selected writings of John Cotton Dana (pp. 55-64). Washington: Special Libraries Association.
11. Echelman, S. (1976). Towards the new special library. Library Journal, 101(1), 91-94.
12. Frank S. Schick and Paul Howard (Comp.) (1968). Survey of special libraries serving the Federal Government. Washington: U.S.G.P.O.
13. Ferguson, Elizabeth and Mobley, Emily R (1984). Special libraries at work. Hamden: Library Professional (p. 4).

Course Code	**BLIS3802 B**
Course Title	Engineering Library and Information System
Type of Paper	DSE (Discipline Specific Elective Course)
Credit	4
Teaching Hours	60

Objectives- *To make the students aware of the objectives, development, collection development, organisational structure, services, financial and HRM of Engineering and Technological Library and Information System.*

Outcome- *After completion of the course, students will be aware of objectives, development, collection development, organisational structure, services, financial and HRM of Engineering and Technological Library and Information System.*

Unit I: Engineering and Technological Libraries and their Development
- ➢ Objectives and Functions
- ➢ Development of Engineering and Technological Libraries
- ➢ Role of Government, Committees and Other Agencies in the Development of Engineering and Technological Libraries in India

Unit II: Collection Development and Management
- ➢ Books and Periodicals
- ➢ Conference Literature, Grey Literature and Government Publications
- ➢ Non-Book Materials: Electronic-Resources, Databases

Unit III: Library Organization and Services
- ➢ Organizational Structure of Engineering and Technological Library
- ➢ Staff Manual, Library Surveys, Statistics and Standards, etc.
- ➢ CAS, SDI, Abstracting and Indexing Services, Library Bulletin
- ➢ Resource Sharing and Networking

Unit IV: Financial and Human Resource Management
- ➢ Determination of Finance, Sources of Finance
- ➢ Types of Budgets
- ➢ Nature, Size, Selection, Recruitment, Qualification and Training
- ➢ Responsibilities and Duties
- ➢ Competency Development Case Study of Engineering and Technological Library in India

RECOMMENDED BOOKS

1. Ramesh, B.D., Sahu, J.R., and Karisiddappa, C.R. (1999). Accessing Engineering Resources on the Internet. In: Proceedings of Library Vision - 2010-Indian Libraries and Librarianship in Retrospect and Prospect held at Hissar, India. Edited by J. L. Sardana .pp.223-231.

2. Arikrishnan (2010) e-Resources for Engineering and Technology: An Overview, University News, Vol.48, No.33, p20-24

3. Parashar, Datta and Patnaik, (2011), Flexibility in Engineering Education. University News, Vol.49.No.50. p. 101-114.

4. Vikas, (2011), Quality up gradation in engineering education network (QUEEN). University News, Vol.49.No.42. p. 26-29.

5. Bhatt and Rana, (2011), Engineering and Management: The two most-sought after fields. University News, Vol.49.No.36. p. 9-17.

6. Rupsing, (2007), AICTE Policy for Collection Development in Engineering College Libraries. Library and information science journalvol.1,No.2, p. 40-43.

7. Singh and Singh, (2011), Web Based Library Services in Engineering College Punjab: A Case Study.

Course Code	**BLIS3802 C**
Course Title	Health Science Library and Information System
Type of Paper	DSE (Discipline Specific Elective Course)
Credit	4
Teaching Hours	60

Objectives- *To make the students aware of the objectives, development, collection development, organisational structure, services, financial and HRM of Health Science Library and Information System.*

Outcome- *After completion of the course, students will be aware of objectives, development, collection development, organisational structure, services, financial and HRM of Health Science Library and Information System.*

Unit I: Health Science Libraries and their Development
➢ Objectives and Functions
➢ History and Development of Health Libraries with Special Reference to India
➢ History and Development of Health Libraries with Special Reference to Abroad
➢ Medical Libraries Information Policies in India

Unit II: Collection Development and Management
➢ Books and Periodicals
➢ Conference Literature, Grey Literature and Government Publications
➢ Non-Book Materials: Electronic-Resources
➢ Databases

Unit III: Library Organization and Services
➢ Organizational Structure of Medical Libraries
➢ Staff Manual, Library Surveys, Statistics and Standards, etc.
➢ CAS, SDI, Abstracting and Indexing Services, Library Bulletin
➢ Resource Sharing and Networking

Unit IV: Financial and Human Resource Management
➢ Determination of Finance, Sources of Finance
➢ Types of Budgets
➢ Nature, Size, Selection, Recruitment, Qualification and Training
➢ Responsibilities and Duties
➢ Competency Development Case Study of Health Libraries in India

RECOMMENDED BOOKS

1. Baker, P.G. (1997). Electronic libraries of the future. Encyclopaedia of library and information science, Volume 50, supplement 22. Edited by Allan Kant and Hall, CM. New York, Marcel Dekker, p. 119-153

2. Dixit, R.P. (1995). Information management in Indian medical libraries. New Delhi, New Concept, p. 227-238.

3. Godlee, F., et al. Can we achieve health information for all by 2015. The Lancet, 295- 300.

4. Money, P.K. and Nagaraj, C. (2007). Health information management: an introduction to disease classification and coding. National Medical Journal of India. 20(6), p. 307- 310

5. Planning Commission. Government of India 11th Five Year Plan (2007-2012). Report of the working group on health systems research, biomedical research & development and regulation of drugs and therapeutics. Government of India, 2006.

6. Ramani, K.V. and Mavalankar, D. (2006). Health system in India: opportunities and challenges for improvements. Journal of Health Organisation and Management. 20(6),p. 560-572.

7. Sanyal, S. (2005). ICT, e-health & managing healthcare: exploring the issues & challenges in Indian railway medical services. Studies in Health Technology Informatics. 114, p. 157-163.

8. Singh, Surya Nath and Garg, B.S. (2002). Impact of information technology (Reprography) on biomedical information centres and libraries (ICLs) in India: a critical evaluation. Annals of Library and Information Studies. 49(3), p. 113-118.

9. Theo, Lippeveld; Sauerborn, R. & Bodart, C. 2000. Design and implementation of health information systems. WHO, Geneva

10. Wadhwa, S, Saxena, A and Wadhwa, B. (2007). Hospital information management system: an evolutionary knowledge management perspective. International Journal of Electronic Healthcare. 3(2), p. 232-260

Course Code	**BLIS3802 D**
Course Title	Agricultural Sciences Library and Information System
Type of Paper	DSE (Discipline Specific Elective Course)
Credit	4
Teaching Hours	60

Objectives- *To make the students aware of the objectives, development, collection development, organisational structure, services, financial and HRM of Agricultural Sciences Library and Information System*

Outcome- *After completion of the course, students will be aware of objectives, development, collection development, organisational structure, services, financial and HRM of Agricultural Sciences Library and Information System.*

Unit I: Agricultural Science Libraries and their Development
➢ Objectives and Functions
➢ History and Development of Agricultural Libraries with Special Reference to India
➢ History and Development of Agricultural Libraries with Special Reference to Abroad
➢ Role of ICAR, Committees and Other Agencies in the Development of Agricultural Libraries in India

Unit II: Collection Development and Management
➢ Books and Periodicals
➢ Conference Literature, Grey Literature and Government Publications
➢ Non-Book Materials: Electronic-Resources, Databases

Unit III: Library Organization and Services
➢ Organizational Structure of Agricultural Library
➢ Staff Manual, Library Surveys, Statistics and Standards, etc.
➢ CAS, SDI, Abstracting and Indexing Services, Library Bulletin
➢ Resource Sharing and Networking

Unit IV: Financial and Human Resource Management
➢ Determination of Finance, Sources of Finance
➢ Types of Budgets
➢ Nature, Size, Selection, Recruitment, Qualification and Training
➢ Responsibilities and Duties
➢ Competency Development Case Study of Agricultural Library in India

RECOMMENDED BOOKS

1. BHATT (V S): Information resources in agricultural research in 40years of agricultural research in India (1989) ICAR, New Delhi.
2. CHOTEY LAL (C): Agricultural libraries and information systems: a handbook for users (1998) R K Techno Science Agency, New Delhi.
3. DAYMATH (Y) and RUTTAN (V W): Agricultural development: an international perspective (1979) John Hopkins, Baltimore.
4. DESHMUKH (P P): Standardization of library and information services with special reference to scientific and agricultural libraries (1990) ABC, New Delhi.
5. KUMAR (P S G): Agricultural librarianship: M.L.I.Sc. elective paper (2008) B.R. Publication, New Delhi.
6. SHARMA (R D): The agricultural information network for India (1989) Society for Information Science, New Delhi.
7. SUBBAIHA (R): Agricultural librarianship in India: an overview (1988) Metropolitan, New Delhi.
8. SWAMINATHAN (M S): Report of the working group on agricultural research and education for the formulation of the eighth plan (1989) Planning Commission, ICAR, New Delhi.

Course Code	**BLIS3802 E**
Course Title	Information Resource Development
Type of Paper	DSE (Discipline Specific Elective Course)
Credit	4
Teaching Hours	60

Objectives- *To acquaint students with various information resource development principles and selection tools.*

Outcome- *After completion of the course, students will be confident enough to equip the library by using various information resource selection tools and principles.*

Unit I: Types of Information Resources
➢ Documentary (Primary, Secondary & Tertiary)
➢ Non-Documentary
➢ E-Resources

Unit II: Book Selection Principles
➢ Drury's Principle
➢ Dewey's Principle
➢ McColvin's Principle
➢ Ranganathan's Principle

Unit III: Selection Tools
➢ Current List, Bibliographies
➢ Library Catalogue
➢ Books in Print
➢ Publishers' Catalogue, Directories, WebOPAC (WorldCat), Websites

Unit IV: Categories of Documents
➢ By Physical Characteristics
➢ By Information Characteristics
➢ Books and Periodicals, Theses and Dissertations
➢ Govt. Publications, Grey Literature

RECOMMENDED BOOKS

1. Keith R. McCloy. (1995). Resource management information systems: process and practice. Bristol, PA: Taylor & Francis. London.
2. Kenneth C. Laudon, Jane Price Laudon. (2002). Management information systems: managing the digital firm. Prentice-Hall. New Jersey, USA
3. Margaret C. Harrell ... [et al.]. (2011). Information systems technician rating stakeholders: implications for effective performance. Santa Monica, CA : RAND National Defense Research Institute
4. Mcnurlin. (2003). Information Systems Management in Practice. Pearson Education India. Delhi.
5. Okon. E. Ani & Blessing Ahiauzu. (2008). Towards effective development of electronic information resources in Nigerian university libraries. Emerald Group Publishing Ltd.
6. Pitschmann, Louis. (2001). A Building sustainable collections of free third-party Web resources. Washington, D.C.: Digital Library Federation, Council on Library and Information Resources.
7. Smith, Allen N. & Donald B. Medley.(1987). Information resource management. South-Western Pub. Co. Cincinnati.
8. Smith, Abby. (2001). Strategies for building digitized collections. Washington, D.C.: Digital Library Federation, Council on Library and Information Resources
9. Tariq Ashraf and Puja Anand Gulati. (2012). Design, Development, and Management of Resources for Digital Library Services. Amazon.co.uk
10. Timothy D. Jewell et al. (2005). Electronic Resource management: report of the DLF resource management initiative. Digital Library Federation. Washington D C
11. Turban. (2008). Information Technology for Management: Transforming Organizations in The Digital Economy, 4th ed. Jon Wiley & Son. USA
12. William G. Smith & Associates. (1991). Information resource management policies. Database Research Group. Boston

Course Code	**BLIS3803**
Course Title	Academic Project/ Dissertation
Type of Paper	VAC (Value-Added Course)
Credit	6
Teaching Hours	90

Objectives- *To make the students aware about writing a dissertation.*
Outcome- *After completion of the course, students will be aware about dissertation writing.*

Dissertation work shall be start in the beginning of the EIGHTH semester for which each student will be allotted a topic for writing the Dissertation. The Dissertation will be submitted at the end of EIGHTH semester on the date to be decided by the Department.

A. Dissertation Evaluation by External and Internal Examiner: **25 X 2 = 50 Marks**
B. Viva-Voce: **25 X 2 = 50 Marks**
C. Total: A + B = **100 Marks**

Course Code	**BLIS3804**
Course Title	Internship
Type of Paper	Internship
Credit	8
Teaching Hours	120

Objectives-
   i. *To train the students in practical librarianship in the working environment of the library by deputing them in different types of libraries for a period of one month; and*
   ii. *To train them in preparing the Internship Report in a prescribed format based on their practical training and learning.*

Outcome- *After completion of the course, students will be able to works in Library without any hesitation.*

The work for paper shall start in the beginning of the EIGHTH semester for which each student will be allotted a topic for writing the Report. The Report will be submitted at the end of EIGHTH semester on the date to be decided by the Department.

   A. Report on Internship Programme – **40 Marks**
   B. Viva-Voce – **20 Marks**

Course Code	**BLIS3805A**
Course Title	Semantic Web
Type of Paper	MENC (Mandatory Elective Non-Credit Course)
Credit	-
Teaching Hours	30

Objectives- *To make the students aware about the fundamental concepts of the Semantic Web, to describe the importance of semantic technologies for data representation and integration.*
Outcomes- *After completion of the course, students will be able to understand the semantic web Vision and technologies and model data using RDF (Resource Description Framework).*

Unit I: Introduction to the Semantic Web
- Overview of the Semantic Web and its Goals
- Benefits of Semantic Technologies for Data Integration
- Semantic Web Standards and Languages
- Introduction to Ontologies and their Role in the Semantic Web
- Overview of the Web Ontology Language (OWL)
- Creating and Reasoning with OWL Ontologies

Unit 2: RDF and Linked Data
- Understanding RDF Triples (Subject, Predicate, Object)
- Creating RDF Graphs and Resources
- Linked Data Principles and Best Practices
- Introduction to SPARQL and its Role in Querying Semantic Data
- Constructing SPARQL Queries to Retrieve Data
- Joining and filtering Data using SPARQL

RECOMMENDED BOOKS

1. Semantic Web for the Working Ontologist: Effective Modeling in RDFS and OWL" by Dean Allemang and James Hendler
2. "Learning SPARQL: Querying and Updating with SPARQL 1.1" by Bob DuCharme
3. Online tutorials and resources related to RDF, OWL, and SPARQL

Course Code	**BLIS3805 B**
Course Title	Informatics and Scientometrics
Type of Paper	MENC (Mandatory Elective Non-Credit Course)
Credit	-
Teaching Hours	30

Objectives- *To acquaint students with Informetrics, Bibliometrics Laws, Growth and Obsolescence of Literature, Citation analysis and Science Indicators.*

Outcome- *After completion of the course, students will be confident about Informetrics, Bibliometrics Laws, Growth and Obsolescence of Literature, Citation analysis and Science Indicators.*

Unit I: Bibliometrics, Scientometrics, and Informetrics

- Concept and Definition of Librametric, Bibliometrics, Scientometrics, Informetrics, Webometrics and Altimetric. Librametry, Bibliometrics
- Theoretical Foundation of Bibliometrics and Scientometrics; Limitations of Bibliometrics, Scientometrics, Informetrics and Webometrics
- Garfield's Law of Concentration, Mathew Effect, Other Models of Scientific Communications
- Bibliometric Data Sources: Scopus, Web of Science, Google Scholar; Crossref; Microsoft Academic
- Bibliometric Data Collection: Citation Counting Methods
- Individual Impact Measures: H-Index, G-index, etc; Co-Citation Analysis, Bibliographic Coupling
- Journal Citation Measures: Journal Impact Factor, Journal Citation Indicator, Immediacy Index, CiteScore, SNIP, Weighted Impact -Eigenfactor, SJR; Half-life; Normalized Impact Indicators

Unit II: Advanced Learning in Bibliometrics/ Scientometrics

- Classical Laws of Bibliometrics - Broadford's Law, Zipf's Law, Lotka's Law, Brookes, Leimkhler, Bookstein Formulation, Bradford-Zipf Distribution; Price Theory, Ortega Hypothesis.
- Fitting of Informetrics Models: Bradford's Curve, Leimukuhler's Distribution.
- Aspects of Concentration Measures; 80-20 Rule, Price's Law relating to Scientific Productivity Analysis of Use Statistics.
- Publication Productivity Dynamics - Journal Level, Institutional Level, Regional Level, National Level, Global Level, Discipline Level Publication
- Scientometrics Analysis Tools- R Software -Bibliometrix, Publish or Perish, Bibexcel, etc.
- Network Visualization Software – Vosviewer; Pajek, Sci2Tools, CiteSpace, etc.
- Altimetric and Webometric: Data Source and Analysis
- Responsible Research Metrics – DORA Declaration, Leiden Manifesto, etc.

RECOMMENDED BOOKS

1. Carpenter, R.L. and Vasu, E.S. (1979). Statistical methods for librarian. Chicago: ALA.
2. Donohue, J C. (1990). Understanding scientific literature: A Bibliometric approach. London: MIT.
3. Egghe, L., and Rousseau, R. (1990). Introduction to Informetrics: Quantitative methods in Library, Documentation and Information Science. Amsterdam: Elsevier.
4. Nicholas D. and Ritchil, M. (1979). Literature and Bibliometrics. London: Clive Bingley.
5. Bornmann, L., & Daniel, H. D. (2008). What do citation counts measure? a review of studies on citing behavior. Journal of Documentation, 64(1), 45 – 80. 2.
6. Cronin, B. & Sugimoto, C. (Eds). (2014) Beyond Bibliometrics : Harnessing Multidimensional Indicators of Scholarly Impact. Massaschussets, MIT Press
7. Cronin, B. (1984). The citation process: the role and significance of citations in scientific communication: Taylor Graham.
8. Cronin, B., & Atkins, H.B. (Eds.). (2000). The Web of Knowledge: A Festschrift in Honor of Eugene Garfield: Information Today Inc.
9. De Bellis, N. (2009). Bibliometrics and Citation Analysis: From the Science Citation Index to Cybermetrics. Lanham: Scarecrow Press.
10. Egghe, L. (2005). Power Laws in the Information Production Process: Lotkaian Informetrics: Emerald Group Publishing Limited.
11. Glänzel, W., Moed, H.F., Schmoch, U., Thelwall, M. (Eds.) (2019) Springer Handbook of Science and Technology Indicators. Cham, Switzerland: Springer Nature
12. Haustein, S. (2012). Multidimensional journal evaluation: Analyzing scientific periodicals beyond the Impact Factor. Berlin : De Gruyter.
13. Moed, H. F. (2005). Citation analysis in research evaluation. Dordrecht,: Springer.
14. Sugimoto, C. R. (Ed.) (2016), Theories of Informetrics and Scholarly Communication: A festschrift in honor of Blaise Cronin
15. Thelwall, M. (2016). Web indicators for research evaluation: A practical guide. Synthesis Lectures on Information Concepts, Retrieval, and Services. San Rafael, CA: Morgan & Claypool Publishers.
16. Vinkler, P. (2010). The Evaluation of Research by Scientometric Indicators. Oxford: Chandos.
17. Waltman, L. (2016). A review of the literature on citation impact indicators. Journal of Informetrics, 10(2), 365–391. https://doi.org/10.1016/j.joi.2016.02.007.
18. Wilsdon, J. (2016), Towards Metric Tide: Independent Review of the Role of Metrics in Research Assessment and Management, Sage publication/ HEFCE, UK