AGENDA

FOR

10th MEETING OF THE DEPARTMENTAL COUNCIL

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY (CS & IT), MIRPUR UNIVERSITY OF SCIENCE AND TECHNOLOGY (MUST), MIRPUR AZAD KASHMIR

The 10th Meeting of the Departmental Council in the Department of Computer Science & Information Technology held on 13-10-2022 at 11:00 a.m. with the following items and subjects.

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Approval of Program Learning Outcomes (PLOs) for BS (CS) and BS (IT) programs for session 2022-26 and onwards

Program Learning Outcomes (PLOs)

Computing programs prepare students to attain educational objectives by ensuring that students demonstrate achievement of the following outcomes (derived from Graduate Attributes define by Seoul Accord www.seoulaccord.org.)

Program Learning Outcomes (PLOs)	Computing Professional Graduate
1. Academic Education	To prepare graduates as computing professionals
2. Knowledge for Solving Computing Problems	Apply knowledge of computing fundamentals, knowledge of a computing specialization, and mathematics, science, and domain knowledge appropriate for the computing specialization to the abstraction and conceptualization of computing models from defined problems and requirements
3. Problem Analysis	Identify, formulate, research literature, and solve complex computing problems reaching substantiated conclusions using fundamental principles of mathematics, computing sciences, and relevant domain disciplines
4. Design/ Development of Solutions	Design and evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations
5. Modern Tool Usage	Create, select, adapt and apply appropriate techniques, resources, and modern computing tools to complex computing activities, with an understanding of the limitations
6. Individual and Team Work	Function effectively as an individual and as a member or leader in diverse teams and in multi-disciplinary settings
7. Communication	Communicate effectively with the computing community and with society at large about complex computing activities by being able to comprehend and write effective reports, design documentation, make effective presentations, and give and understand clear instructions
8. Computing Professionalism and Society	Understand and assess societal, health, safety, legal, and cultural issues within local and global contexts, and the consequential responsibilities relevant to professional computing practice
9. Ethics	Understand and commit to professional ethics, responsibilities, and norms of professional computing practice
10. Life-long Learning	Recognize the need, and have the ability, to engage in independent learning for continual development as a computing professional

of the following outcomes (derived from Graduate Attributes define by Seoul Accord www.seoulaccord.org).

Approval of revised scheme of study of BS(CS) Session 2021-25

Eligibility Criteria

The minimum requirements for admission in a Bachelor of Sciences in Computer Science is at least 50% marks in the Intermediate (HSSC) examination with Mathematics or equivalent qualification with Mathematics certified by IBCC.

Program's Goal and Objectives

One of the goals of the program is to equip students with skills and knowledge that enable them to take on appropriate professional positions in the Computer Science field and grow into leading roles. The main objectives are;

- 1. Educate students with theoretical knowledge of Computer Science.
- 2. Enhance the programming, analytical, and problem-solving skills of students.
- 3. Empower students with the future vision of Computer Science and required research abilities.

Proposed Curriculum for BS (Computer Science) Areas covered in the BS Program

Course Group	Credit hours	% age
General Education	19	15%
University Electives	12	9%
Mathematics & Science Foundation	12	9%
Computing-Core	39	30%
Common courses	82	63%
Domain CS		
Domain CS Core	24	18%
Domain CS Electives	21	12%
Domain CS Supporting	9	7%
Domain courses	54	37%
TOTAL	136	100%

Courses common for all computing BS programs – 82 Credits

Computing Core Courses Course Title Programming Fundamentals	Credit hours 3-1
Object Oriented Programming	3-1
Data Structures & Algorithms	3-1
Discrete Structures	3-0
Operating Systems	3-1
Database Systems	3-1
Software Engineering	3-0
Computer Networks	3-1

Information Security	3-0
Final Year Project	0-6
Total	39 (27-12)
General Education Courses	Credit hours
Course Title	
English Composition & Comprehension	3
Technical & Business Writing	3
Communication & Presentation Skills	3
Professional Practices	3
Intro to Info. & Comm. Technologies	2-1
Pakistan Studies	2
Islamic Studies/ Ethics	2
Total	18-1
University Elective Courses	
Course Title	Credit hours
Foreign Language	2-0
Social Service	1-0
Management Related	3-0
Social Science Related	3-0
Economy Related	3-0
Total	12-0
Mathematics and Science Foundation Courses	
Course Title	
	Credit hours
Calculus & Analytical Geometry	3-0
Probability & Statistics	3-0
Linear Algebra	3-0
Applied Physics	3-0
Total	12-0

Domain Courses for BS (Computer Science)

Computer Science CORE (Compulsory) courses

Course Title	Credit hours
Compiler Construction	3-0
Comp. Organization & Assembly Language	3-1
Digital Logic Design	3-1
Design & Analysis of Algorithms	3-0
Parallel & Distributed Computing	3-0
Artificial Intelligence	3-1
Theory of Automata	3-0
Total	24 (21-3)

Computer Science SUPPORTING courses (ANY 3 from following list)

Coverage of relevant pre-requisite must be ensured while offering any

of the following courses from this category

Course Title	Credit hours
Differential Equations	3-0
Multi-variate Calculus	3-0
Graph Theory	3-0
Theory of Programming Languages	3-0
Numerical Computing	3-0
Total (Any three of the above)	9-0

Computer Science ELECTIVE courses

Course Title CS Elective – 1	Credit hours 3+1
CS Elective – 2	3+1
CS Elective – 3	3+1
CS Elective – 4	3
CS Elective – 5	3
CS Elective – 6	3
Total	21

Proposed Study Plan for BS (Computer Science)

4-Years Program (8 Regular Semesters of 18 weeks each)

Semester-1

Code	Pre-Req	Title	Lec. Hrs	Lab. Hrs	Credit Hours
BCS-1101		Introduction to Information and	2	1	3
		Communication Technology			
BCS-1102		Programming Fundamentals	3	1	4
PHY-1118		Applied Physics	3	0	3
MAT-1115		Calculus and Analytical Geometry	3	0	3
ENG-1107		English Composition & Comprehension	3	0	3
		Total:	14	2	16

Semester-2

Code	Pre-Req	Title	Lec. Hrs	Lab. Hrs	Credit Hours
BCS-1203	BCS-1102	Object Oriented Programming	3	1	4
BCS-1204		Digital Logic Design	3	1	4
ENG-1207		Communication & Presentation Skills	3	0	3
PSY-1219		Psychology	3	0	3
STA-1220		Statistics and Probability	3	0	3
		Total:	15	2	17

Semester-3

Code	Pre-Req	Title	Lec.	Lab.	Credit
			Hrs	Hrs	Hours
BCS-2305		Data Structures and Algorithms	3	1	4
BCS-2306		Computer Organization and Assembly	2	1	3
		Language			
BCS-2307		Software Engineering	3	0	3
MAT-2315		Differential Equations	3	0	3
BCS-2308		Discrete Structures	3	0	3
ISL-2312		Islamic Studies	2	0	2
		Total:	16	2	18

Semester-4

Code	Pre-Req	Title	Lec. Hrs	Lab. Hrs	Credit Hours
BCS-2409		Design and Analysis of Algorithms	3	0	3
MAT-2415		Linear Algebra	3	0	3
BCS-2410		Database Systems	3	1	4
BCS-2411		Operating Systems	3	1	4
ARA-2401		Arabic	3	0	3
		Total:	15	2	17

Semester-5

Code	Pre-Req	Title	Lec.	Lab.	Credit
			Hrs	Hrs	Hours
BCS-3512	BCS-2411	Parallel & Distributed Computing	3	0	3
BCS-3513		Theory of Automata	3	0	3
MAT-3515		Numerical Computing	3	0	3
BCS-35XX		CS Elective-1	3	1	4
BCS-35XX		CS Elective-2	3	1	4
		Total:	15	2	17

Semester-6

Code	Pre-Req	Title	Lec.	Lab.	Credit
			Hrs	Hrs	Hours
BCS-3614		Artificial Intelligence	3	0	3
BCS-3615		Computer Networks	3	0	3
BCS-3616		Compiler Construction	3	0	3
PS-3617		Pakistan Studies	2	0	2
BCS-36XX		CS Elective-4	3	1	4
BSC-36XX		CS Elective-3	3	0	3
		Total:	17	1	18

Semester 7

Code	Pre-Req	Title	Lec. Hrs	Lab. Hrs	Credit Hours
BCS-4717		Information Security	3	0	3
BCS-4718		Final Year Project I	0	0	s/u
HUM-4704		Professional Practices	3	0	3
ENG-4707		Technical and Business Writing	3	0	3
ECO-4706		Economics	3	0	3
BCS-4719		Human Computer Interaction	3	0	3

BCS-47XX	CS Elective-5	2	1	3
	Total:	17	1	18

Semester-8

Code	Pre-Req	Title	Lec. Hrs	Lab. Hrs	Credit Hours
BCS-4820		Final Year Project II	0	6	6
BSC-4821		Theory of Programming Languages	3	0	3
HRM-4809		Human Resource Management	3	0	3
BCS-4822		Internship/Practical Training	-	-	S/U
BCS-48XX		CS Elective-6	3	0	3
		Total:	9	6	15

List of CS-Elective Courses

S.No.	Course	Title	Lec. Hrs	Lab.	Credit
Anoo	Coue	Software Engineering and		1115	nouis
Area		Development			
1	BCS-4823	Semantic Web	3	0	3
2	BCS-4724	Visual Programming	2	1	3
3	BCS-3525	Web Design and Development	3	1	4
4	BCS-3626	Mobile Application Development	3	1	4
5	BCS-3527	Computer Graphics and Animations	3	1	4
Area	~	Data Science			-
6	BCS-3528	Distributed Database System	3	1	4
7	BCS-3629	Data Mining	3	0	3
8	BCS-4730	Big Data Analytics	3	0	3
Area		Network and security			
9	BCS-3631	Wireless Networks	3	0	3
10	BCS-4732	System and Network Administration	3	1	4
11	BCS-4733	Network Security	3	0	3
Area		Machine Learning &			
		Miscellaneous			
12	BCS-4834	Deep Learning	3		3
13	BCS-4735	Digital Image Processing	3	0	3
14	BCS-4836	Applications in blockchain	3		3
15	BCS-3537	Introduction to Python	3	1	4
		Programming			
16	BCS-3638	Information System	3	0	3
17	BCS-3539	Object Oriented Analysis and	3	0	3
10	DCS 2640	Design Como Dovolonment	2	0	2
10	DC3-3040	Came Development	5	U	5

Important Note:-

- The existing scheme of study of BS (CS) session 2021-2025 is updated. The changes are made from semesters 3rd to 8th.
- 2. The revised scheme of study will also be applicable on sessions 2022-2026 and onward. However, the OBE-based curriculum will be applicable on sessions 2022-2026 and onwards.

- 3. Apart from the presented list of elective courses, faculty members can also offer their area of specialization/expertise as an elective subject.
- 4. The elective course offering is subject to the availability of rooms and faculty members.

Approval of revised scheme of study of BS(IT) Session 2021-25

Eligibility Criteria

The minimum requirements for admission in a Bachelor of Sciences in Information Technology is at least 50% marks in the Intermediate (HSSC) examination with Mathematics or equivalent qualification with Mathematics certified by IBCC.

Program's Goal and Objectives

One of the main goals of the BS(IT) program is to equip students with skills and knowledge that enable them to take on appropriate professional positions in the ICT industry and grow into leading roles. The main objectives are;

- 1. Educate students with knowledge of Computer Science and Information Technology.
- 2. Enhance the programming, analytical, and problem-solving skills of students.
- 3. Enable students to Select, design, integrate and administer Computer based solutions into the organizational environment

Category-wise Credit Hours Distribution

Course Group	Credit	% age
	hours	
General Education	18	15%
University Electives	12	9%
Mathematics & Science Foundation	12	9%
Computing-Core	40	30%
Common courses	82	63%
Domain IT		
Domain IT Core	24	18%
Domain IT Electives	21	12%
Domain IT Supporting 9		7%
Domain courses	54	37%
TOTAL	136	100%
Course Title	Credit ho	urs
Programming Fundamentals	3-1	
Object Oriented Programming	3-1	
Data Structures & Algorithms	3-1	
Discrete Structures	3-0	
Operating Systems	3-1	
Database Systems	3-1	
Software Engineering	3-0	

Computer Networks	3-1
Information Security	3-0
Final Year Project	0-6
Total	39 (27-12)

General Education Courses	
Course Title	Credit hours
English Composition & Comprehension	3-0
Technical & Business Writing	3-0
Communication & Presentation Skills	3-0
Professional Practices	3-0
Intro to Info. & Comm. Technologies	2-1
Pakistan Studies	2-0
Islamic Studies/ Ethics	2-0
Total	18-1
University Elective Courses	
(Not limited to the list below, Institutions may add	
more courses)	
Course Title	Credit hours
Foreign Language	2-0
Social Service	1-0
Management Related	3-0
Social Science Related	3-0
Economy Related	3-0
Total	12-0
Mathematics and Science Foundation Courses	
Course Title	
	Credit hours
Calculus & Analytical Geometry	3-0
Probability & Statistics	3-0
Linear Algebra	3-0
Applied Physics	3-0
Total	12-0
Demain Compare for DS IT	
BS-IT CORE	Credit hours
(Compulsory) courses Course Title	
Cyber Security	3-0
Database Administration and Management	3-1
Information Technology Project Management	3-0
Information Technology Infrastructure	3-0

Information Technology Infrastructure System and Network Administration Virtual Systems and Services Web Technologies **Total**

BS-IT SUPPORTING courses (ANY 3 from the following list)

(Coverage of relevant pre-requisite must be ensured while offering any of the following courses from this category) **Course Title**

Enterprise Systems 3-0

3-1

3-1

3-0 **24 (21-3**)

Modeling and Simulation	3.0
	3-0
Formal Methods	3-0
Operations Research	3-0
Software Requirements Engineering	3-0
Total (Any three of the above)	9-0
BS-IT ELECTIVE	Credit hours
courses Course Title	
IT Elective – 1	3+1
IT Elective – 2	3
IT Elective – 3	3+1

Proposed Study Plan for BS (Information Technology)

4-Years Program (8 Regular Semesters of 18 weeks each)

Semester-1

IT Elective – 4

IT Elective -5

IT Elective -6

Total

Code	Pre-Req	Title	Lec. Hrs	Lab. Hrs	Credit Hours
BIT-1101		Introduction to Information and Communication Technology	2	1	3
BIT-1102		Programming Fundamentals	3	1	4
PHY-1118		Applied Physics	3	0	3
MAT-1115		Calculus and Analytical Geometry	3	0	3
ENG-1107		English Composition & Comprehension	3	0	3
		Total:	14	2	16

3

3

21

3+1

Semester-2

Code	Pre-Req	Title	Lec.	Lab.	Credit
			Hrs	Hrs	Hours
BIT-1203	BIT-1102	Object Oriented Programming	3	1	4
ENG-1207		Communication & Presentation Skills	3	0	3
BIT-1204		Enterprise Systems	3	0	3
STA-1220		Probability and Statistics	3	0	3
HRM-1209		Human Resource Management	3	0	3
PSY-1219		Psychology	3	0	3
		Total:	18	1	19

Semester-3

Code	Pre-Req	Title	Lec.	Lab.	Credit
			Hrs	Hrs	Hours
BIT-2405		Database Systems	3	1	4
BIT-2306		Data Structure and Algorithms	3	1	4
BIT-2307		Discrete Structures	3	0	3
MAT-2305		Linear Algebra	3	0	3
BIT-2308		Information Technology Infrastructure	3	0	3
		Total:	15	2	17

Semester-4

Code	Pre-Req	Title	Lec. Hrs	Lab. Hrs	Credit Hours
BIT-2409		Software Engineering	3	0	3
ISL-2312		Islamic Studies	2	0	2
BIT-2410		Computer Networks	3	1	4
BIT-2411		Operating Systems	3	1	4
ARA-2401		Arabic	3	0	3
		Total:	14	2	16

Semester-5

Code	Pre-Req	Title	Lec. Hrs	Lab. Hrs	Credit Hours
BIT-3512		Information Technology Project	3	0	3
		Management			
BIT-3513		System & Network Administration	3	1	4
BIT-3514		Information Security	3	0	3
BIT-35XX		IT Elective-1	3	1	4
BIT-35XX		IT Elective-2	3	0	3
		Total:	15	2	17

Semester-6

Code	Pre-Req	Title	Lec. Hrs	Lab. Hrs	Credit Hours
BIT-3615		Cyber Security	3	0	3
BIT-3616		Web Technologies	3	0	3
BIT-3617		Database Administration &	3	1	4
		Management			
BIT-36XX		IT Elective-3	3	1	4
BIT-36XX		IT Elective-4	3	0	3
		Total:	15	2	17

Semester 7

Code	Pre-Req	Title	Lec.	Lab.	Credit
			Hrs	Hrs	Hours
BIT-4718		Final Year Project	0	0	s/u
BIT-4719		Operations Research	3	0	3
HUM-4704		Professional Practices	3	0	3
BIT-4720		Virtual System and Services	3	1	4
MGS-4702		Economics	3	0	3
BIT-47XX		IT Elective-5	3	1	4
		Total:	15	2	17

Semester-8

Code	Pre-Req	Title	Lec. Hrs	Lab. Hrs	Credit Hours
BIT-4821		Final Year Project	0	6	6
ENG-4807		Technical and Business Writing	3	0	3

BIT-4822	Modeling and Simulation	3	0	3
BIT-4823	Internship/Practical Training	-	-	S/U
PS-4817	Pakistan Studies	2	0	2
BIT-48XX	IT Elective-6	3	0	3
	Total:	11	6	17

List of IT-Elective Courses

S.No.	Course Code	Title	Lec. Hrs	Lab. Hrs	Credit Hours
Area	coue	Software Engineering and Development		1115	nouis
1	BIT-4824	Semantic Web	3	0	3
2	BIT-3525	Visual Programming	3	1	4
3	BIT-3526	Web Design and Development	3	1	4
4	BIT-3627	Mobile Application Development	3	1	4
5	BIT-3528	Programming in Python	3	1	4
Area		Network and security			
6	BIT-3529	Wireless Networks	3	0	3
7	BIT-3630	Telecommunication System	3	0	3
8	BIT-4831	Ethical Hacking	3	0	3
9	BIT-4732	Network Security	3	0	3
Area		Miscellaneous			
10	BIT-4733	Ecommerce	3	0	3
11	BIT-3534	Information System	3	0	3
12	BIT-4835	Robotics	3	0	3
13	BIT-3636	Big Data Analytics	3	0	3
14	BIT-3637	Data Mining	3	0	3

Important Note:-

- The existing scheme of study of BS (IT) session 2021-2025 is updated. The changes are made from semesters 3rd to 8th.
- 2. The revised scheme of study will also be applicable on sessions 2022-2026 and onward. However, the OBE-based curriculum will be applicable on sessions 2022-2026 and onwards.
- 3. Apart from the presented list of elective courses, faculty members can also offer their area of specialization/expertise as an elective subject.
- 4. The elective course offering is subject to the availability of rooms and faculty members.

Approval/Adaptation of CLOs outlined by HEC for each Computing course (where available) for BSCS and BSIT Programs

The course outlines with CLOs for BSCS and BSIT programs as outlined by HEC in the curriculum revised in 2017 are adapted where available.

The course outlines are available in a separate document. <u>BSCS and BSIT Course outlines with CLOs</u> This will affect the students of BSCS and BSIT of session 2022 and onward.

Approval for Changes of Courses in Scheme of study of BS(CS) Approved in 7th BoS was held on 06-06-2016

Two changes are suggested in the 7th semester of the BSCS program for Sessions 2019-23 and 2020-2024.

- 1. The course of Fuzzy Logic of 3 credit hours is replaced with Visual Programming of credit hours (2+1).
- 2. The course of System Programming 3 credit hours is replaced with Theory of Programming Languages of credit hours (3).

Semester 7

Code	Pre- Req	Title	Lec. Hrs	Lab. Hrs	Credit Hours
BCS-4701		Visual Programming	2	1	3
BCS-4702		Compiler Construction	3	0	3
BCS-4703		Numerical Computing	3	0	3
BCS-4704		Digital Image Processing	3	0	3
BCS-4705		Theory of Programming Languages	3	0	3
BCS-4706		Final Year Project (1)	-	-	S/U
		Total:			15

Approval for Changes of Courses in Scheme of study BS(IT) Approved in 7th BoS was held on 06-06-2016

One change is suggested in the 5th semester of the BSIT program for Session 2020-2024.

1. The course of DB Administration & Management *(IS) is being removed to balance the total credit hours.

Semester-5 Code Pre-Req Title Lec. Hrs Lab. Credit Hrs Hours 2 BIT-3501 Web Design and Development *(IC) 3(2+1)1 -BIT-3502 DB Administration & Management *(IS) 3 0 3 3 BIT-3503 Multimedia Technologies *(IC) 0 3 -BIT-3504 Telecommunication Systems *(IE) 3 0 3 BIT-3505 BIT-2402 3 Software Engineering II *(CC) 0 3 BIT-3506 Technology Management *(IC) 3 3 -0 Total: 18

Updated Semester 5

Code	Pre-Req	Title	Lec. Hrs	Lab. Hrs	Credit Hours
BIT-3501	-	Web Design and Development *(IC)	2	1	3(2+1)
BIT-3503	-	Multimedia Technologies *(IC)	3	0	3
BIT-3504	-	Telecommunication Systems *(IE)	3	0	3
BIT-3505	BIT-2402	Software Engineering II *(CC)	3	0	3
BIT-3506	-	Technology Management *(IC)	3	0	3
		Total:			15

Approval of Minutes of meeting of Industrial Advisory Board (IAB) for BSCS and BSIT Programs held on 07-10-2022.

Minutes of 1st Industrial Advisory Board of CS&IT Department

The first meeting of IAB of the Department of Computer Science & Information Technology was held on 7 September 2022, at 10 HRS at the Department of Computer Science & Information Technology to collect valuable feedback from the board members.

The meeting was formally started with the recitation of Holy Quran verses by Dr. Iftikhar Ahmad Assistance Professor, CS&IT Department.

The coordinator of the CS&IT Department Dr. Yasir Mahmood warmly welcomed all the participating members of the Industrial Advisory Board for their valuable participation.

Board members discussed the agenda items one by one and provided their valuable recommendations.

Mr. Muhammad Akram Director of Quality Cell, Najran University KSA gave the following suggestions/comments:

- 1- Courses in the Scheme of study of CS and IT programs are ok.
- 2- There must be Lab for Computer Networks at BSIT.
- 3- Benchmarking with at least three national and international university courses taught at the undergraduate level should be done.
- 4- There should be an external review of the programs.
- 5- The implementation of schemes of study is important.
- 6- Knowledge area should be defined.
- 7- CLOs should be defined by the group of faculty members, not by a single member.

Mr. Muhsin Yasin suggested course coordinators for each knowledge area. He recommended the followings:

- 1- The network and security area should be changed to cyber security because network and security is a part/subset of Cyber Security and by making a few changes in the modules here it can cover both cyber security and network security.
- 2- Add ethical Hacking and network and web-based security courses can be added in the elective part.
- Mr. Ahsan suggested adding new tools.
- Mr. Rehman suggested focusing on Lab work.
- Mr. Usman commented, FYP should be related to Market demands or should be started as a startup.
- Mr. Zeeshan Asghar highlighted a few typos.
- The course name of FYP in the 7th and 8th semesters should be FYP I & FYP II.

The data structure course name is data structures

Add Game development courses or tools e.g. Unity 3D

Add OOP Design course as elective in both BSCS/BSIT program

The Coordinator of the CS&IT department informed the members about changes made in schemes of studies of currently running batches and for the upcoming batch of fall 2022 that will be PLO/CLO based. The Coordinator of the CS&IT department also informed the members that knowledge groups are already made, and the coordinator of each knowledge group is chosen. Benchmarking with five national and international universities has already been done. The suggested courses are added to the elective list of both CS and IT programs.

The meeting ended with a note of thanks from the chair.

Dr. Yasir Mehmood

Coordinator, Department of CSIT MUST, Mirpur (A.K)