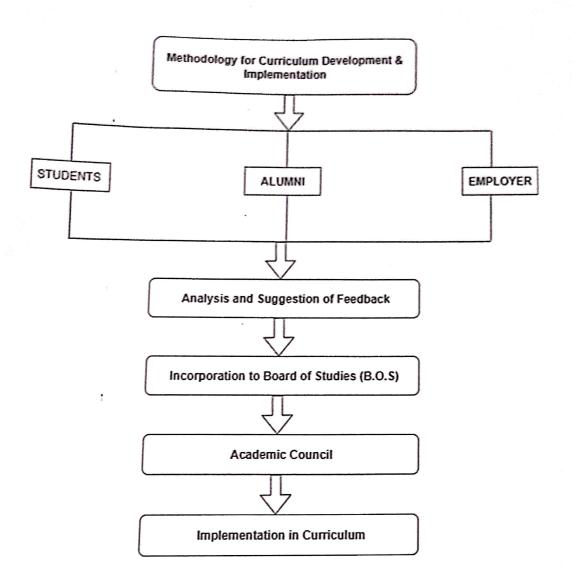
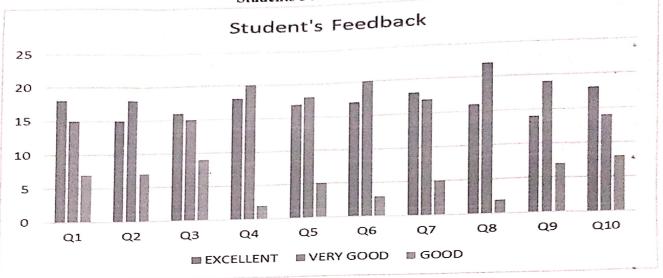
CURRICULUM DEVELOPMENT & IMPLEMENTATION (SSCIT)





Students Feedback 2022-23



Question	EXCELLENT	VERY GOOD	GOOD
Q1	18	15	7
Q2	15	18	7
Q3	16	15	9
Q4	. 18	20	2
Q5	17	18	5
Q6	17	20	3
Q7	18	17	5
Q8	16	22	2 .
Q9	14	19	7
Q10	18	14	8



Suggestions received from students:

- 1. Increase practical-based learning and real-world exposure to improve skill
- 2. Use innovative and student-friendly teaching methodologies for better
- 3. Improve academic support and continuous assessment for better progress

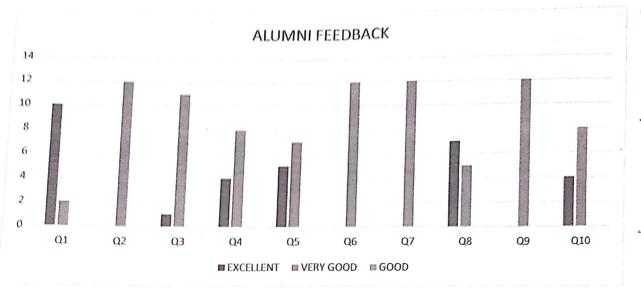
Suggested Action:

- Lab hours have been enhanced and made more industry-relevant. New software tools and updated lab equipment have been introduced. Industrial visits, live projects, and expert-led practical workshops are now being conducted regularly.
- Faculty members have undergone training in interactive and ICT-enabled teaching methods. Use of smart boards, video-based content, and real-time quizzes has been integrated into classroom delivery.
- A revised continuous assessment system with regular internal tests, quizzes, and progress monitoring has been adopted. Remedial classes and mentoring sessions are being provided to support academically weaker students.









Question	EXCELLENT	VERY GOOD	GOOD .
Q1	10	2	0
Q2	0	12	0
Q3	1	11	0
Q4	4	8	0
Q5	5	7	0
Q6	0	12	0
Q7	0	12	0
Q8	7	5	0
Q9	0	12	0
Q10	4	8	0



Suggestions received from Alumni:

- I appreciate the College's initiative to restructure courses for a gradual progression, but aligning the syllabus with the NEP's emphasis on multidisciplinary learning will better prepare students for evolving industry demands.
- Introducing specialized electives in AI, Data Science, and Cybersecurity—alongside traditional core subjects—will enable alumni and current students to remain competitive and innovative in rapidly growing tech sectors.
- Expanding elective options to include capstone projects and industry-driven case studies aligns perfectly with NEP's focus on experiential learning, fostering critical thinking and real-world problem-solving skills.
- Strengthening industry-oriented offerings through guest lectures, hands-on workshops, and structured internships resonates with NEP's goal of bridging academia and industry, thereby enhancing employability.
- Regularly updating laboratory equipment and software tools—as advocated by NEP—will ensure that students train on current technologies, maintaining the institution's reputation for quality technical education.
- Adopting flexible, NEP-aligned specialization tracks will allow students to tailor their learning paths—combining foundational courses with advanced electives—thus catering to diverse career goals and learning paces.

Suggested Action:

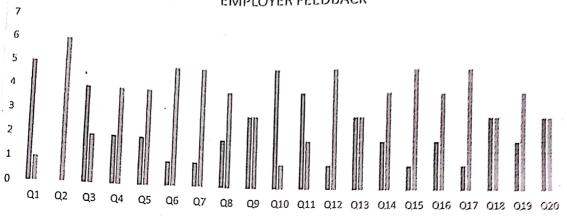
- Restructure curriculum for gradual progression from basics to advanced concepts:
 The Departmental Curriculum Committee has revised the course structure to support a gradual learning curve. Bridge courses and foundation modules have been introduced for better conceptual understanding and to support students with diverse learning paces.
- 2. Specialization tracks in emerging fields such as Artificial Intelligence, Data Science, and Cybersecurity have been proposed. These are currently under review by the Academic Council. Collaborations with ed-tech partners are being planned for effective delivery.
- 3. New electives have been introduced, emphasizing real-world problem-solving and application. Mini-projects have been embedded into the syllabi for final-year UG and PG programs to promote experiential learning.
- 4. Memoranda of Understanding (MoUs) have been signed with local IT and software firms. A guest lecture series schedule has been prepared, and internship guidelines have been revised to allow internships to contribute towards academic credits.
- 5. A budget proposal has been submitted for upgrading laboratory equipment. Additionally, procurement of modern software tools related to cloud computing, artificial intelligence, and simulation environments is in progress.
- 6. A new framework has been developed to enable credit-based elective selections across departments. Development of an interdepartmental course registration portal is underway to support multidisciplinary learning.







EMPLOYER FEEDBACK



EXCELLENT VERY GOOD GOOD

Question	EXCELLENT	VERY GOOD	GOOD
Q1	5	1	0
Q2	0	6	0
Q3	4	2	0
Q4 .	2	4	0
Q5	2	4	0
Q6	1	5	0
Q7	1	5	0
Q8	, 2	4	0
Q9	3	3	0
Q10	5	1	0
Q11	4	2	0
Q12	1 .	5	0
Q13	3	3	0
Q14	· 2	4	0
Q15	1	5	0
Q16	2	4	0
Q17	1	5	0
Q18	3	3	0
Q19	2	4	0
Q20	3	3	0



Suggestions received from Employee:

- 1. Restructure the curriculum to provide a smooth transition from basic to advanced topics.

 2. Introduce a la curriculum to provide a smooth transition from basic to advanced topics.
- 2. Introduce advanced electives in high-demand areas like Artificial Intelligence, Data Science, and Cybersecurity.
- 3. Emphasize project-based and experiential learning in regular coursework.
- 4. Strengthen industry interaction through internships, guest lectures, and field visits.
- 5. Modernize laboratories and upgrade software tools to match industry trends.

Suggested Action:

- 1. Departmental curriculum committees have revised syllabi to ensure a logical and layered progression of topics. Bridge and foundation courses have been included to support students with varying academic backgrounds.
- 2. Proposals for new elective modules have been submitted to the Academic Council. Curriculum design is in progress, with plans to collaborate with external experts and industry professionals for delivery.
- 3. Final-year undergraduate and postgraduate courses now include mandatory project components. Faculty training workshops on project-based learning methodologies are being scheduled.
- 4. Several MoUs with industry partners have been signed. Internship structures are revised to award academic credits. A calendar for expert talks and industrial exposure is being implemented.
- 5. Lab audits were conducted and reports submitted for fund allocation. Advanced tools for simulation, cloud computing, and AI are being procured under the new budget plan.

Pillasz



SWARRNIM STARTUP & INNOVATION UNIVERSITY Swarnim School of Computing & IT **Board of Studies Constitution**

Sr.	Members Name	Name of Company/Institute	Designation	Member Designation
No.	Dr. Kavita Kshatriya	SSIU	Academic Dean	Chairperson
02	Mr. Víkas Chandra Sharma	SSIU (SSCIT)	HOD SSCIT	Co-Chairperson
03	Dr. Hardiksinh Rajjada	SSIU (SSCIT)	Assistant Professor	Faculty Member
04	Mr. Nírav Dave	SSIU (SSCIT)	Assistant Professor	Faculty Member
05	Ms. Pritee Solanki	SSIU (SSCIT)	Assistant Professor	Faculty Member
06	Ms. Apeksha Dave	SSIU (SSCIT)	Assistant Professor	Faculty Member
07	Mr. Hardík Parmar	SSIU (SSCIT)	Assistant Professor	Faculty Member
08	Dr. Jethva Harikrishna B	GOVERNMENT ENGINEER COLLEGE, PATAN	Associate Professor	Academic Extern Expert
09	Mr. Sagar Jasan ,	BrainyBeam Technologies Pvt. Ltd., AHMEDABAD	CEO	Industry Externa Expert
0	Prof. Swapnil Solanki	SSIU	Deputy Registrar	Member Secreta

AGENDA OF THE MEETING

Agenda 1: To Design curriculum of BCA (Honours) as per NEP-2020.

Agenda 2: To introduce the teaching and examination scheme of BCA Honours.

Mr. Vikas Chandra Sharma

Co-Chairperson **Board of Studies** Dr. Kavita Kshatriya

Chairperson **Board of Studies**



Swarnim School of Computing & IT

Minutes of First Board of Studies meeting of the School of Computing & IT held on August 25, 2023 at SWARNIM STARTUP & INNOVATION UNIVERSITY

Members Present:

Sr. No.	Members Name	Designation
01	Dr. Kavita Kshatriya	Chairperson
02	Mr. Vikas Chandra Sharma	Co-Chairperson
03	Or. Hardikhsinh Rayjada	Faculty Member
04	Mr. Nirav Dave	Faculty Member
05	Ms. Pritee Solanki	Faculty Member
06	Ms. Apeksha Dave	Faculty Member
07	Mr. Hardik Parmar	Faculty Member
08	Dr. Jethva Hurikrishna B.	Academic External Experi
09	Mr. Sagar Jasani	Industry External Expert
10	Prof. Swapnii Solinki	Member Secretary

Agenda 1:To Design curriculum of BCA (Honours) as per NEP-2020.

Resolved: The Members of BoS ununimously approved in BCA (Honours) program as per NEP data, following features of NEP are also Considered as below:

- Value Added Course/Indian Knowledge System.
- Skill Enhancement Courses
- · Ability Enhancement Courses
- Interdisciplinary & Multidisciplinary studies
- Research based focus (In the job training in the final year of the program.

Dr. Tethra Harikaishne Suamein school of Computary

7 Sagar Jasan

The new subjects were as under:

- · Multiple Entry and Exit
- · Choice Based Credit System

Agenda 2: To introduce the teaching and examination scheme of BCA Honours as per NEP 2020.

Resolved: The Members of BOS unanimously approved the teaching and examination scheme of BCA Honours as per NEP 2020.

Mr. Vikas Chandra Sharma

Co-Chairperson

Board of Studies

Dr. Kavita Kshatriya

Chairperson

Board of Studies

Dr. Jethera Hurikrishna

of Computing Ait anahina.

SWARNIM STARTUP & INNOVATION UNIVERSITY

Swarnim School of Computing & IT

Board of Studies

Attendance Record

Date: August 25, 2023, Friday Time: 03:30 pm

Venue: Seminar Hall

Sr. No.	Members Name	Designation	Signature \\\\\\
01	Dr. Kavita Kshatriy.	Chairperson	Signature Notation
02	Mr. Vikas Chandra Starma	Co-Chairperson	Ciller
03	Dr. Hardikhsinh Ray ada	Figurity Member	15
04	Mr. Nirav Dave	Faculty Member	N.I. Dan
05	Ms. Pritce Solanki	Faculty Member	P.MsJunki
06	Ms. Apeksha Dave	Faculty Member	Apen
07	Mr. Hardik Parmar	Faculty Member	Uwr216 Cm
08	Dr. Jethva Harikrish in B.	Academic External Expert	-fi-
09	Mr. Sagar Jasani	Industry External Expert	T 6,005
10	Prof. Swapnil Solani.	Vicinher Secretary	5. csants

Dr. John W Harikais no Establish Charles Char

Mr. Soger Joseni

SWARRNIM STARTUP & INNOVATION UNIVERSITY Swarnim School of Computing & IT Board of Studies Constitution

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04	Mr. Nirav Dave	SSIU (SSCIT)	Assistant Professor	Faculty Member
05	Ms. Pritee Solanki	SSIU (SSCIT)	Assistant Professor	Faculty Member
06	Ms. Apeksha Dave	SSIU (SSCIT)	Assistant Professor	Faculty Member
07	Mr. Hardik Parmar	SSIU (SSCIT)	Assistant Professor	Faculty Member
08	Dr. Jethva Harikrishna B	GOVERNMENT ENGINEER COLLEGE, PATAN	Associate Professor	Academic External Expert
09	Mr. Sagar Jasan	BrainyBeam Technologies Pvt. Ltd., AHMEDABAD	CEO	Industry External Expert
10	Prof. Swapnil Solanki	SSIU	Deputy Registrar	Member Secretary

AGENDA OF THE MEETING

Agenda 1: To Design curriculum of BSC-IT (Honours) as per NEP-2020.

Agenda 2: To introduce the teaching and examination scheme of BSC-IT (Honours).

Mr. Vikas Chandra Sharma

Co-Chairperson Board of Studies Dr. Kavita Kshatriya

Chairperson Board of Studies



Swarnim School of Computing & IT

Minutes of First Board of Studies meeting of the School of Computing & IT held on August 25, 2023 at SWARNIM STARTUP & INNOVATION UNIVERSITY

Members Present:

Sr. No.	Members Name	Designation
01	Dr. Kavita Kshatriya	Chairperson
02	Mr. Vikas Chandra Sharma	Co-Chairperson
03	Dr. Hardikhsinh Rayjada	Faculty Member
04	Mr. Nirav Dave	Faculty Member
05	Ms. Pritee Solanki	Faculty Member
06	Ms. Apeksha Dave	Faculty Member
07	Mr. Hardik Parmar	Faculty Member
08	Dr. Jethva Harikrishna B.	Academic External Expert
09	Mr. Sagar Jasani	Industry External Expert
10	Prof. Swapnil Solanki	Member Secretary

Agenda 1:To Design curriculum of BSC-IT (Honours) as per NEP-2020.

Resolved: The Members of BoS unanimously approved in BSC-IT (Honours) program as per NEP data. Following features of NEP are also Considered as below:

- Value Added Course/Indian Knowledge System.
- · Skill Enhancement Courses
- · Ability Enhancement Courses
- · Interdisciplinary & Multidisciplinary studies
- Research based focus/On the job training in the final year of the program.

The new subjects were as under:

- Multiple Entry and Exit
- · Choice Based Credit System

Jun Or Jethun Juni Krishmu



J Saged Mr. Sagar Jasan Agenda 2: To introduce the teaching and examination scheme of BSC-IT Honours as per NEP 2020.

Resolved: The Members of BOS unanimously approved the teaching and examination scheme of BSC-IT Honours as per NEP 2020.

Mr. Vikas Chandra Sharma

Co-Chairperson **Board of Studies** Dr. Kavita Kshatriya

Chairperson **Board of Studies**

Dr. Jethra Hurilorishna

Swarmim Scho of Computing

BUSINESS OF

SWARNIM STARTUP & INNOVATION UNIVERSITY

Swarnim School of Computing & IT

Board of Studies

Attendance Record

Date: August 25, 2023, Friday Time: 03:30 pm

Venue: Seminar Hall

Sr. No.	Members Name	Designation	Signature
01	Dr. Kavita Kshatriya	Chairperson	Nysha h Ja
02	Mr. Vikas Chandra Sharma	Co-Chairperson	Oilebra.
03	Dr. Hardikhsinh Rayjada	Faculty Member	V
04	Mr. Nirav Dave	Faculty Member	N. K. Dare
05	Ms. Pritee Solanki	Faculty Member	P.M. solunia
06	Ms. Apeksha Dave	Faculty Member	Frem
07	Mr. Hardik Parmar	Faculty Member	Murzi G C-
08	Dr. Jethva Harikrishna B.	Academic External Expert	Ju
09	Mr. Sagar Jasani	Industry External Expert	J' Soger
10	Prof. Swapnil Solanki	Member Secretary	S.S.Sotundo

Jar Jethry Huriterishmu Swarmim School of Computing & IT

J Sagell Mr. Sager Joseph

SWARNIM STARTUP & INNOVATIO UNIVERSITY

SWARRNIM SCHOOL OF COMPUTING & IT

BCA - TEACHING SCHEME BATCH 2023-27 (NEP)

BCA (NEP) Semester – I

			Tea	ching Scho	me (Per wo	ek)					
Category of Course Subject Cod	Subject Code	Subject Code Subject title		Tr	D	Cualita	Internal		External		Total
	ojett oos	J	Theory	Tutorial	Practical	Creans	Th	Pr	Th	Pr	
Major/ Core	BCA230101	Fundamentals of Computers	3	0	2	4	50	-	30	20	100
Major/ Core		Programming in C	3	0	_ 2	4	50	-	30	20	100
	BCA230103	Web Development Using HTML, CSS & XML	3	0	2	4	50	-	30	20	100
MDC	BCA230104	Mathematical Foundation	3	1	0	4	50	-	50	0	100
AEC	AEC230101	Communication Skills	2	0	0	2	25	-	25	-	50
SEC	SEC230101	Foundation of Entrepreneurship	2	0	0	2	25	-	25	-	50
IKS	IKS230101	Indian Science and Technology	2	0	0	2	25	-	25		50
	Total Credits Earned						275	0	215	60	550

		BCA Ser	nester – II								
			T	Teaching Scheme (Per week)				Exam	ination		
Category of	Subject Code	Subject title	1 ea	cning Sche	eme (Per we	ek)	Inte	rnal	Exte	rnal	Total
Course			Theory	Tutorial	Practical	Credits	Th	Pr	Th	Pr	
Major/ Core	BCA230201	Data Structures using C	3	0	2	4	50	-	30	20	100
Major/ Core	BCA230202	Object Oriented Concepts using C++	3	0	2	4	50	-	30	20	100
Minor	BCA230203	Core Java	3	0	2'	4	50	0	30	20	100
MDC	BCA230204	Foundation in Statistical Methods	3	1	0	4	50	-	50	-	100
AEC	AEC230202	Logical & Critical Thinking	_ 2	0	2	_ 2	25	-	25	-	50
SEC	SEC230202	Identifying Entrepreneurial Opportunities	2	0	0	2	25	, ,-	25	-	50
		Environmental Studies	2	0	0	2	25	-	25	-	50
VAC	VAC230202	Total Credits Earned				22	275	0	215	60	550







BCA - TEACHING SCHEME BATCH 20 2-27 (NEP)

		BCA Sei	mester – III								-
Category of	Teaching Scheme (I			Teaching Scheme (Per week)					nination		
Course	Subject Code	Subject title					Internal		External		Total
			Theory	Tutorial	Practical	Credits	Th	Pr	Th	Pr	
Major/ Core	BCA230301	Data Base Management Systems	3	0	2	4	50	-	30	20	100
Major/ Core	BCA230302	C# and DOT NET Framework	3	0	2	4	50	-	30	20	100
Major/ Core	BCA230303	Computer Communication and Networks	3	1	0	4	50	-	50	-	100
MDC	BCA230304	Digital Marketing	3	0	2	4	50	-	30	20	100
AEC	AEC230303	Modern Indian Language *	2	0	0	2	25	-	25		50
SEC	SEC230303	Marketing Strategies For Start Ups	2	0	0	2	25	,	25		50
IKS	IKS230302	Understanding India	2	0	0	2	25		25	-	50
		Total Credits Earned				22	275	0	215	60	550

		BCA Semes	ster – IV								
			Too	ahing Sah	ma (Dan u	aals)					
Category	Subject Code	Subject title	1 Ca	iching Scho	eme (Per wo	еск)	Inte	rnal	Exte	rnal	Total
of Course			Theory	Tutorial	Practical	Credits	Th	Pr	Th	Pr	
Major/ Core	BCA230401	Python Programming	3	0	2	4	50	-	30	20	100
Major/ Core	BCA230402	Computer Multimedia and Animation	3	0	2	4	50	-	30	20	100
Major/ Core	BCA230403	Operating System Concepts	3	1	0	4	50	-	50		100
Minor	BCA230404	E-Commerce	3	1	0	4	50	-	50	-	100
AEC	AEC230404	Soft Skills	2	0	0	2	25	-	25	-	50
SEC	SEC230404	Finance and Funding for Start Up	2	0	0	2	25	-	- 25	-	50
VAC	VAC230402	Emerging Technologies	0	0	4	2	-	25	-	25	50
		Total Credits Earned				22	250	25	210	65	550





BCA - TEACHING SCHEME BATCH 2023-27 (NEP)

		BCA Semes	ter – V								
Category of	Subject Code	Subject title	Tea	ching Scho	eme (Per wo	ek)	Inte		nination Exte	rnal	Total
Course	Subject	Subject title	Theory	Tutorial	Practical	Credits	Th	Pr	Th	Pr	Total
Major/ Core	BCA230501	PHP and MySQL	3	0	2	4	50	-	30	20	100
Minor	BCA230502	Software Engineering	3	1	0	4	50	-	50	-	100
							-	-	-	-	
Major		One Major with two papers	8	0	0	8					
on manufacture and manufacture		Paper 1					50	-	50	-	100
		Paper 2					50	-	50	-	100
Minor		One Minor with one paper	4	0	0	4	50		-		100
		Paper 1					50	-	50	-	100
Artificial	BCA230503A	AI and Machine Learning Fundamentals									
Intelligence	BCA230503B	Deep Learning									
Data Science	BCA230504A	Statistical Computing and R Programming									
Data Science	BCA230504B	Machine Learning Fundamentals									
Cloud Computing & Information	BCA230505A	Information Security Principles									
Security	BCA230505B	Cloud Computing Fundamentals									
Mobile	BCA230506A	Mobile Application Development Fundamentals									
Applications	BCA230506B	Data Management in Mobile Applications				_					
SEC	SEC230505	Intellectual Property Rights	2	0	0	2		25	-	25	50
	1	Total Credits Earned				22	250	25	250	45	550



		BCA Semest	ter – VI	6							
Category of	6.11.16.1	Curkings dista	Tea	ching Scho	eme (Per w	eek)			nination		T
Course	Subject Code	Subject title	Theory	Tutorial	Practical	Credits	Inte Th	Pr	Exte Th	Pr	Total
Major/ Core	BCA230601	Computer Network Security	3	1	0	4	50	-	50	-	100
SEC/Internshi p	BCA230602	Industrial project	0	0	8	4	-	50	-	50	100
Major		One Major with two papers	8	0	0	8		L			
		Paper 1					50		50	-	100
		Paper 2		0		1	50	_	50	-	100
Minor		One Minor with one paper	4	0	0	4	50	_	50	Γ.	100
		Paper 1					30		30		100
Artificial	BCA230603A	Natural Language Processing									
Intelligence	BCA230603B	Reinforcement Learning									
D . C .	BCA230604A	Big Data Analytics									
Data Science	BCA230604B	Predictive Analytics									
Cloud Computing &	BCA230605A	Cybersecurity Fundamentals									
Information Security	BCA230605B	Cloud Infrastructure and Services									
Mobile	BCA230606A	Mobile App Testing and Debugging									
Applications	BCA230606B	Mobile Security and Privacy	_	-		2	25		25		50
AEC	AEC230605	Workplace Communication	2	0	0	2 22	25 225	50	225	50	550
,		Total Credits Earned					223				





L. * U Talling

		BCA Semester – VII	(With B	Research)							
Category of			To	aching Scho	me (Per w	ek)			nination		
Category of	Subject Code	Subject title	10				-	rnal	-	ernal	Total
			Theory	Tutorial	Practical	Credits	Th	Pr	Th	Pr	1.50
RP	HRBCA230701	Research Project	0	0	12	6	-	75	ļ -	75	150
Major/ Core	HRBCA230702	Advanced Research - I	0	0	8	4	-	50	-	50	100
Major		One Major with two papers	8	0	0	8			L		
		Paper 1					50	-	50	-	100
		Paper 2					50	-	50	-	100
Minor		One Minor with one paper	4	0	0	4			-		
		Paper 1					50	-	50	-	100
Artificial	HRBCA230703A	AI in Robotics									
Intelligence	HRBCA230703B	AI for Internet of Things									
B	HRBCA230704A	Time Series Analysis and Forecasting									
Data Science	HRBCA230704B	Advanced Machine Learning									
Cloud Computing &	HRBCA230705A	Cloud Data Management and Analytics									
Information Security	HRBCA230705B	Ethical Hacking and Penetration Testing									
Mobile	HRBCA230706A	Advanced Mobile App Development									,
Applications	HRBCA230706B	Cross-Platform Mobile App Development									
		Total Credits Earned	~\ ⁰ /			22	150	125	150	125	550



BCA - TEACHING SCHEME BATCH 2023-27 (NEP)

BCA	Semester -	VIII	(With	Research)

			-	Li - Cala	ma (Dan 187	of:)			ination		
Category of	Subject Code	Subject title	Tea	iching Sche	eme (Per wo	ek)	Inte	rnal	Exte		Total
Course	Subject Code	Subject title	Theory	Tutorial	Practical	Credits	Th	Pr	Th	Pr	
D.D.	HRBCA230801	Research Project	0	0	12	6	-	75		75	150
RP		Advanced Research - II	0	0	8	4	-	50	-	50	100
Major/ Core	HRBCA230802	Advanced Research - II									
		One Major with two papers	8	0	0	8					
Major		Paper 1					50	-	50	-	100
		Paper 2					50	-	50	-	100
		One Minor with one paper	4	0	0	4			-		100
Minor		Paper I					50	-	50	-	100
Artificial	HRBCA230803A	AI in Financial Forecasting and Trading									
Intelligence	HRBCA230803B	AI in Image and Video Processing									
	HRBCA230804A	Text Analytics									
Data Science	HRBCA230804B	Social Network Analysis									
Cloud Computing &	HRBCA230805A	Cloud DevSecOps									
Information Security		Secure IoT Deployment in the Cloud									
Mobile	HRBCA230806A	Mobile Game Development									
Amaliantions	HRBCA230806B	Augmented Reality and Virtual Reality in Mobile Apps					175	125	150	125	550
		Total Credits Earned	10			22	150	125	150	125	550



		BCA Semester – VII (Without	Research)						
Category of	Subject Code	Subject title			eme (Per w	eek)	Inte	Exan	nination Exte	rnal	Total
Course	Jan Gode	Subject title	Theory	Tutorial	Practical	Credits	Th	Pr	Th	Pr	
OJT	HBCA230701	On the Job Training	0	0	12	6	-	75	-	75	150
Major/ Core	HBCA230702	Block Chain Technology	3	0	2	4	50	-	50	-	100
Major		One Major with two papers	8	0	0	8					
		Paper 1					50	-	50	<u> </u>	100
		Paper 2					50	-	50		100
Minor		One Minor with one paper	4	0	0	4	50	· · · · ·	50	Π.	100
		Paper 1					- 30		30		100
Artificial	HRBCA230703A	AI in Robotics									
Intelligence	HRBCA230703B	AI for Internet of Things									
Data Science	HRBCA230704A	Time Series Analysis and Forecasting									
Data Science	HRBCA230704B	Advanced Machine Learning									
Cloud Computing &	HRBCA230705A	Cloud Data Management and Analytics									
Information Security	HRBCA230705B	Ethical Hacking and Penetration Testing									
Mobile	HRBCA230706A	Advanced Mobile App Development					,				
Applications	HRBCA230706B	Cross-Platform Mobile App Development									
		Total Credits Earned	,			22	200	75	200	75	550



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Category of	Subject Code	Subject title	Tes	iching Sche	me (Per w	eck)	Internal		External		Total
Course	Subject Code	Subject the	Theory	Tutorial	Practical	Credits	Th	Pr	Th	Pr	per
	HBCA230801	On the Job Training	()	0	12	6		75	and the second s	75	150
Major/ Core	HBCA230802	Automata Theory and Compiler Design	3	0	2	4	50	i de la constantina della cons	30	20	100
William Core	Security Control of Co				Control of the Contro	No to A control	men with the south	Special Control of the Control	CLISIC SEED MEASURE CONTROL	and the same of the same	to the second second
Major	enaveleesst tryviaalienspiestiessetamisen konsus läksiän eesteen ilinoin tassistita	One Major with two papers	8	0	0	8	2 ()	The second second	60	and the second of the second or	100
and the same of th		Paper 1		(MANUSCHICK) TO CAST THE TAX THE CONTROL OF THE CON		serriagolas rapole diserran control	50	-	50	CONTRACTOR OF STREET	100
		Paper 2	No.	CONTRACTOR OF THE PROPERTY OF THE PARTY OF T	one service and an extension of the last		50	economic of the second	20	and the second second	100
Minor	and annual communication in the state of a s	One Minor with one paper	4	0	0	4	P ()	T 1	50		100
Willia		Paper 1			COLUMN TO THE PROPERTY AND ADMINISTRATION OF THE PROPERTY OF T		50	-	30		
Artificial	HRBCA230803A	Al in Financial Forecasting and Trading		and the party of t						and the state of t	
Intelligence	HRBCA230803B	Al in Image and Video Processing									
D. Giran	HRBCA230804A	Text Analytics									
Data Science	HRBCA230804B	Social Network Analysis									
Cloud Computing &	HRBCA230805A	Cloud DevSecOps									
Information Security	HRBCA230805B	Secure IoT Deployment in the Cloud									
Mobile		Mobile Game Development									
Amplications	HRBCA/MAUNDSI	Augmented Reality and Virtual Reality in Mobile Apps				22	200	75	200	95	550

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SWARNEM STARTUP & INNOVATION UNIVERSITY

SWARRNIM SCHOOL OF COMPUTING & IT

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DCCTT	TEACHING SCHEME BATCH 2023-27 (NEP	
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BSC-IT	(NEP)	Semester -	I
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Category of	ATTENDED		Tea	ching Sche	eme (Per we	eek)		Exar	nination		
Course	Subject Code	Subject title	Theory	Tutorial	Practical	Contin	Inte	rnal	Exte	rnal	Total
			Theory	Tutoriai	Fractical	Creans	Th	Pr	Th	Pr	1
Major/ Core	BSCIT230101	Fundamentals of Computers	3	0	2	4	50	-	30	20	100
Major/ Core	BSCIT230102	Programming in C	3	0	2	4	50	-	30	20	100
Minor	BSCIT230103	Web Development Using HTML, CSS & XML	3	0	2	4	50	-	30	20	100
MDC	BSCIT230104	Mathematical Foundation	3	1	0	4	50	-	50	0	100
AEC	AEC230101	Communication Skills	2	0	0	2	25	-	25	-	50
SEC	SEC230101	Foundation of Entrepreneurship	2	0	0	2	25	-	25	-	50
IKS	IKS230101	Indian Science and Technology	2	0	0	2	25	-	25	-	50
		Total Credits Earned				22	275	0	215	60	550

		BSC-IT Sen	nester – I	I		4				, ,						
Category of Course	Subject Code	Subject title	Teaching Scheme (Per week)					Examination Internal Extern			Total					
Course							Theory Tutorial Practical Credit		Theory Tutorial P		Credits	Th	Pr	Th	Pr	
Major/ Core	BSCIT230201	Data Structures using C	3	0	2	4	50	-	30	20	100					
Major/ Core	BSCIT230202	Database Management System	3	0	2	4	50	-	30	20	100					
Minor	BSCIT230203	Mobile Application	3	0	2	4	50	0	30	20	100					
MDC	BSCIT230204	Foundation in Statistical Methods	3	1	0	4	50	-	50	-	100					
AEC	AEC230202	Logical & Critical Thinking	2	0	2	2	25	-	25	-	50					
SEC	SEC230202	Identifying Entrepreneurial Opportunities	2	0	0	2	25	-	25	-	50					
VAC	VAC230202	Environmental Studies	2	0	0	2	25	-	25	-	50					
		Total Credits Earned				22	275	0	215	60	550					





BSC-IT - TEACHING SCHEME BATCH 2023-27 (NEP)

BSC-IT Semester - III

Category of Course	Subject Code	de Subject title	Too	Torokina Sahama (Barana)					Examination				
			Teaching Scheme (Per week)					Internal		External			
			Theory	Tutorial	Practical	Credits	Th	Pr	Th	Pr	1		
Major/ Core	BSCIT230301	Relational Database Management System	3	0	2	4	50	,2	30	20	100		
Major/ Core	BSC11230302	Operating System	3	0	2	4	50	-	30	20	100		
Major/ Core	BSCI1230303	Python Programming	3	0	2	4	50	-	30	20	100		
MDC	BSCIT230304	Computer Organization	3	0	2	4	50	-	30	20	100		
AEC	AEC230303	Modern Indian Language *	2	0	0	2	25	-	25	-	50		
SEC	SEC230303	Marketing Strategies For Start Ups	2	0	0	2	25	-	25	-	50		
IKS	IKS230302	Understanding India	2	0	0	2	25		25	-	50		
Jacobski, Statisticki processor processor statistical successor comments	 Sander & Michigan Strandschaft and Physiology and Control on Principles of College (Co.) (1986) 945-967. 	Total Credits Earned		and the second section in the later performed to addinguent con-	The second secon	22	275	0	195	80	550		

		BSC-IT Seme	ester – IV	1							
Category		Subject title	Teaching Scheme (Per week)					Exam	ination		
of Course	Subject Code		reaching Scheme (Fer week)				Internal		External		Total
			Theory	Tutorial	Practical	Credits	Th	Pr	Th	Pr	
Major/ Core	BSCIT230401	Cloud Computing	3	0	2	4	50	-	30	20	100
Major/ Core	BSCIT230402	Information Security	3	0	2	4	50	-	30	20	100
Major/ Core	BSCIT230403	Software Testing	3	1	0	4	50	-	50	-	100
Minor	BSC1T230404	Data Science	3	0	2	4	50	-	30	20	100
AEC	AEC230404	Soft Skills	2	0	0	2	25	-	25	-	50
SEC	SEC230404	Finance and Funding for Start Up	2	0	0	2	25	-	25	-	50
VAC	VAC230402	Interpersonal Skills	0	0	4	2	-	25	-	25	50
	<u> </u>	Total Credits Earned				22	250	25	190	85	550





BSC-IT - TEACHING SCHEME BATCH 2023-27 (NEP)

BSCIT Semester - V

Category of	Subject Code	e Subject title	Tea	iching Sche	me (Per wo	eck)	Examination				
Course	Subject Code						Internal		External		Total
Mai (C	Decironen		Theory	Tutorial	Practical	Credits	Th	Pr	Th	Pr	
Major/ Core	BSCIT230501	Open-Source Technology	3	0	2	4	50	-	30	20	100
Minor	BSCIT230502	Networking and Security	3	1	0	4	50		50	-	100
Major		One Major with two papers	8	0	0	8	-	-	-	-	
jei		Paper 1	0	0	<u> </u>	0	50		50		100
		Paper 2					50	-	50		100
Minor		One Minor with one paper	4	0	0	4	30		30		100
		Paper 1					50	-	50	-	100
Artificial	BSCIT230503A	Al and Machine Learning Fundamentals									
Intelligence	BSCIT230503B	Deep Learning									
Data Science	BSCIT230504A	Statistical Computing and R Programming									
Data Science	BSCIT230504B	Machine Learning Fundamentals									
Cloud Computing & Information	BSCIT230505A	Information Security Principles									
Security	BSCIT230505B	Cloud Computing Fundamentals						7			
Mobile	BSCIT230506A	Mobile Application Development Fundamentals							,		
Applications	BSCIT230506B	Data Management in Mobile Applications									
SEC	SEC230505	Intellectual Property Rights	2	0	0	2	-	25	-	25	50
		Total Credits Earned				22	250	25	250	45	550

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		BSC-IT Seme	ster – V	I							
Category of	Subject Code		Tea	ching Scho	eme (Per w	eek)			nination		Total
Course		Subject title	Theory	Tutorial	Practical	Credits	Inte Th	Pr	Exto Th	Pr	Total
Major/ Core	BSCIT230601	Introduction to Blockchain	3	1	0	4	50	-	50	-	100
SEC/Internshi p	BSCIT230602	Industrial project	0	0	8	4	-	50	-	50	100
Major		One Major with two papers	8	0	0	8	50		50	1	100
		Paper 1 Paper 2					50	-	50 50		100
Minor		One Minor with one paper	4	0	0	4	30		-	L	
Willion		Paper 1					50	-	50	-	100
Artificial	BSCIT230603A	Natural Language Processing									
Intelligence	BSCIT230603B	Reinforcement Learning									
Data Cairma	BSCIT230604A	Big Data Analytics									
Data Science	BSCIT230604B	Predictive Analytics									
Cloud Computing &	BSCIT230605A	Cyber security Fundamentals									
Information Security	BSCIT230605B	Cloud Infrastructure and Services									
Mobile	BSCIT230606A	Mobile App Testing and Debugging									
Applications	BSCIT230606B	Mobile Security and Privacy									
AEC	AEC230605	Workplace Communication	2	0	0	2	25	-	25	-	50
		Total Credits Earned				22	225	50	225	50	550

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		BSC-IT Semester – VI	I (With	Research)						·
Category of			Tea	iching Scho	me (Per we	eek)			nination		Total
Course	Subject Code	Subject title					Internal		External Th Pr		Total
	un socione a seco		Theory	Tutorial	Practical	Credits	Th	Pr	111	75	150
RP	HRBSCIT230701		0	0	12	6	-	75			
Major/ Core	HRBSCIT230702	Advanced Research - I	0	0	8	4	-	50	-	50	100
Major		One Major with two papers	8	0	0	8				1	
		Paper 1					50	-	50	-	100
		Paper 2					50	-	50	-	100
Minor		One Minor with one paper	4	0	0	4			-		
		Paper 1					50	-	50	-	100
Artificial	HRBSCIT230703A	Al in Robotics									
Intelligence	HRBSCIT230703B	Al for Internet of Things									
Data Science	HRBSCIT230704A	Time Series Analysis and Forecasting									
		Advanced Machine Learning									
	HRBSCIT230705A	Cloud Data Management and Analytics									-
Information	HRBSCIT230705B	Ethical Hacking and Penetration Testing									
Mobile	1	Advanced Mobile App Development									
Applications	HRBSCIT230706B	Cross-Platform Mobile App Development									
		Total Credits Earned				22	150	125	150	125	550





		BSC-IT - TEACHING SCHEM	The same of the sa		,						
C-1		BSC-IT Semester – VI	II (With	Research	1)		,		nination		1
Category of Course	Subject Code	Subject title	Teaching Scheme (Per week)			eek)					
Course			Theory	Tutorial	Practical	Credits	Inte Th	rnal	Exte Th	rnal	Total
RP	HRBSCIT230801	Research Project	0	0	12	6	111	Pr 75	I n	Pr 75	150
Major/ Core		Advanced Research - II	0	0	8	4		50	-	50	100
Major		One Major with two papers	8	0	0	8					
		Paper 1					50	-	50		100
		Paper 2					50	-	50	-	100
Minor		One Minor with one paper	4	0	0	4			-		
		Paper 1					50	-	50	-	100
Artificial	HRBSCIT230803A	AI in Financial Forecasting and Trading									
Intelligence	HRBSCIT230803B	AI in Image and Video Processing									
Data Science	HRBSCIT230804A	Text Analytics									
	HRBSCIT230804B	Social Network Analysis									
,	HRBSCIT230805A	Cloud DevSecOps									
Information Security	HRBSCIT230805B	Secure IoT Deployment in the Cloud									
Mobile	HRBSCIT230806A	Mobile Game Development									
Applications	HRBSCIT230806B	Augmented Reality and Virtual Reality in Mobile Apps								-	
		Total Credits Earned				22	150	125	150	125	550

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		BSC-IT Semester – VII	(Withou	t Researc	h)						
Category of Course	Subject Code	Subject title		Teaching Scheme (Per week)					mination External		Tota
OJT	UDCCITTORA		Theory	Tutorial	Practical	Credits	Th	Pr	Th	Pr	
	HBSCIT230701	On the Job Training	0	0	12	6	-	75	-	75	150
Major/ Core	HBSCIT230702	Web Development using Python Framework	3	0	2	4	50	-	50	-	100
Major		One Major with two papers	8	0	0	8		1			
		Paper 1					50	-	50	-	100
		Paper 2					50	-	50	-	100
Minor		One Minor with one paper	4	0	0	4			-		
		Paper 1					50	-	50	-	100
Artificial	HRBSCIT230703A	AI in Robotics									
Intelligence	HRBSCIT230703B	Al for Internet of Things									
Data Science	HRBSCIT230704A	Time Series Analysis and Forecasting									-
	HRBSCIT230704B	Advanced Machine Learning									
Cloud Computing & Information	HRBSCIT230705A	Cloud Data Management and Analytics									
	HRBSCIT230705B	Ethical Hacking and Penetration Testing									
Mobile	HRBSCIT230706A	Advanced Mobile App Development									
Applications	HRBSCIT230706B	Cross-Platform Mobile App Development					200	75	200	75	550
		Total Credits Earned				22	200	/3	200	13	JJ0





		BSC-IT Semester – VIII	(Withou	.t Dassau	ols \		ender i von sedani e recentari	-				
Category of Course	Subject Code	Subject title	Teaching Scheme (Per week)					Exar rnal	nination Exte	ination External		
		,	Theory	Tutorial	Practical	Credits	Th	Pr	Th	Pr	150	
OJT	HBSCIT230801	On the Job Training	0	0	12	6	4	75	-	75	150	
Major/ Core	HBSCIT230802	Internet of Things (IoT) and its applications	3	0	2	4	50	-	30	20	100	
Major		One Major with two papers	8	0	0	8			50		1.00	
		Paper 1					50	-	50		100	
		Paper 2					50	-	50	_	100	
Minor		One Minor with one paper	4	0	0	4			-	T	100	
		Paper 1					50	-	50		100	
Artificial	HRBSCIT230803A	Al in Financial Forecasting and Trading										
Intelligence	HRBSCIT230803B	AI in Image and Video Processing										
Data Science	HRBSCIT230804A	Text Analytics										
	HRBSC1T230804B	Social Network Analysis										
Cloud Computing & Information	HRBSCIT230805A	Cloud DevSecOps										
Security	HRBSCIT230805B	Secure IoT Deployment in the Cloud										
Mobile	HRBSCIT230806A	Mobile Game Development										
Applications	HRBSCIT230806B	Augmented Reality and Virtual Reality in Mobile Apps										
		Total Credits Earned				22	200	75	200	95	550	

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