

CRITERION 1

CURRICULAR ASPECTS

METRIC NO. 1.2

Academic Flexibility

Minutes of Board of Studies Meeting

Royal School of Information Technology

The Assam Royal Global University

Guwahati – 35

The Assam Royal Global University

First meeting of Board of Studies (BOS),

Royal School of Information & Technology,

Date - 21/05/2018 Time - 10 AM.

Venue -

The Assam Royal Global University Betkucki , NH 37 , Opp. Tirupati Balaji Temple . Guwahati - 781035

gc.	Serial No.	Members	Signature
*	1.	Proj. (Dr.) Biswajit Banerjee, Projessor & Principal, Dean i/c., Royal School of Engineering & Technology, The Assam Royal Global University	Baurie.
£ .	2.	Proj. (Dr.) P. H. Talukdar, Projessor Royal School of Engineering & Technology, The Assam Royal Global Ulniversity	21/5/18
*	3.	Mr. Aniruddha Deka, Assistant Projessor & 40D 1/x, Royal School of Information & Technology, The Assam Royal Global University.	40elg 21.0° 18
		Mr. Saurabh Butradhat, Assistant Projessor, Royal School of Information & Technology, The Assam Royal Global University	100 2018 12.00 2018

Serial No.	Expert	Signature
1.	Prof. (Dr.) D. K. Mahanta	
	Department of Mechanical Engineering,	D. Janta:
	Assam Engineering College.	Peraharta 18
	Talukbari, Guwarati - 781013	
Serial No.	Special Invitee	Signature
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1.	Dr. Subhrajyeti Bordoloi,	98219
	Associate Professor,	695 19 19
	Department of Somputer Applications,	
	Assam Engineering Callege,	
	Jalukbari, Guwahati - 781013	
2.	De Namit Saikia	
	Dr. Navajit Saikia,	0
	Assistant Professor.	2/5/18
	Department of Electronics &	21(
	Telecommunication Engineering,	
	Jalukbari, Guwahati - 781013	Kart Je Fill
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2	P. J. (Dr.) P. V. Garagani	1
3.	Prof. (Dr.) P. K. Goswami,	
	Professor Emeritus,	0
	Royal School of Engineering	
	& Technology,	
	The Assam Royal Global	
	University	

ROYAL SCHOOL OF INFORMATION TECHNOLOGY

MINUTES OF THE FIRST BOS MEETING

Date: 21/05/18

Time: 10:15 a.m.

Location: BOG Room, RGU

Meeting Chaired by: Prof. (Dr.) B. Banerjee, Chairperson and Dean i/c

Members Present:

Prof. (Dr.) B. Banerjee Chairperson, BOS Prof. (Dr.) P. H. Talukdar Internal Expert, BOS

Prof. (Dr.) D. K. Mahanta External Expert Dept. of Mechanical Engineering Assam Engineering College Dr. Subhrajyoti Bordoloi Special Invitee Dept. of Computer Applications Assam Engineering College

Dr. Nabajit Saikia Special Invitee Dept. of ETE Assam Engineering College Mr. Aniruddha Deka HOD, RSIT

Mr. Saurabh Sutradhar Nominated Member Secretary, BOS Ms. Ankita Goyal Agarwala Asst. Prof, RSIT

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Mr. Arnab Kumar Mishra Asstt. Prof., RSET

Agenda of the Meeting:

Presentation and Suggestions on proposed course structures/syllabi of UG and PG courses, RSIT.

The meeting commenced with a welcome address by Mr. Saurabh Sutradhar, Nominated Member Secretary of BOS, RSIT.

Deliberations from Members Present:

- 1. Object Oriented Programming using JAVA in 3rd semester of B. Sc. (IT) and BCA are to be renamed.
- 2. Introduction to Digital Techniques in the 1st semester of B. Sc. (IT) and BCA to be renamed as Digital Logic and System Design.

ROYAL SCHOOL OF INFORMATION TECHNOLOGY

- 3. Mathematics should be included as a core course and not as a general elective.
- 4. Open Source Technologies can be renamed as Open Source Software so that it becomes more specific to the related domain.
- 5. In 6th semesters of both B. Sc. (IT) and BCA programmes, an additional theory subject on Cloud Computing of 3 Credits can be offered in place of the allotted lab slot.
- 6. For BCA, subjects as
- (i) Operating Systems and System Software, and
- (ii) Data Communication and Computer Communication & Networks,

can be combined.

However, if Data Communication and Computer Communication & Networks can't be combined, the syllabus of Data Communication needs to be revised.

- 7. In MCA programme, the subjects Principles of Management and Organisational Behaviour can be merged into one and a new subject called Optimisation Techniques can be included in the course structure.
- 8. All the experts suggested that the list of electives for B. Sc. (IT), BCA, M. Sc. (IT) and MCA should be clearly listed. In the undergraduate programmes, the electives should be light-weight like Data Mining, Artificial Intelligence, Cryptography, etc. and in the postgraduate programmes, the subjects should be more hard core e.g. Big Data Analytics, Pattern Recognition, Natural Language Processing, etc.

Consequent Resolutions adopted:

For BCA-BSC (IT)

- 1. Object Oriented Programming using JAVA in 3rd semester of B. Sc. (IT) and BCA has been renamed as JAVA Programming.
- 2. Instead of Introduction to Digital Techniques, Digital Logic and Computer Design is introduced as a new subject in the 1st semester of B. Sc. (IT) and BCA.
- 3. A student can choose any of the offered subjects under AEEC section that has been reflected in the course structure.

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ROYAL SCHOOL OF INFORMATION TECHNOLOGY

- 4. Open Source Technologies has been renamed as Open Source Software so that it becomes relevant to the related domain.
- 5. In 4th semester of BCA, Operating Systems and System Software have been merged into one and renamed as Operating Systems.
- 6. A new subject called Computer Graphics and Multimedia has been introduced in the 4th semester of the BCA programme.
- 7. The lists of electives for B.Sc. (IT) and BCA have been finalized.

For MCA

- 1. In the 1st semester, Computer Fundamentals has been changed to Open Source Software.
- 2. Optimisation Techniques and Signals and Systems have been included as an elective in the curriculum.
- 3. As suggested by the esteemed experts, the list of electives has been finalized.

For MSC (IT)

1. As suggested by the esteemed experts, the list of electives has been finalized.

<u>Vote of Thanks:</u> The meeting concluded with the Chairperson offering vote of thanks to the members present

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The Assam Royal Global University Second Meeting of Board of Studies (BOS) Royal School of Information & Technology Date : 28/11/2018 Time

Venue:

The Assam Royal Global University Betkuchi , NH-37 Opp. Tirupati Balazi Temple . Guwakati - 781035

Serial No	Chairperson	Signature	
1	Prof (Dr) B. Bangriel		
	Prof (Dr) B. Banarjel, Dean ile of Royal School of Information E. Technology, The Assam Royal Global University	18am 28.11.18	
	- fion & Technology,	28.11.18	
	The Assam Royal Global University		
	Members	Signature	
2	Prof (Dr.) P. H. Talukdar		
	Prof (Dr.) P. H. Talukdar Professor, Royal School of Engineering	1, 20	
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- Bernie	The Assam Royal Global University	Ages Signature of the state of	
3	Mr. Aniruddha Deka,		
	Assistant Professor & HOD i/c,	mel	
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	Assistant Registrar (Academics)	1800	
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6	Mr. Jyotish Talukdas, Technical Manager, Zaloni	faluhda .
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	Technologies India Prt. Ltd	
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	Associate Professor, Assam	Book.
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8	Mr. Saurath Sutradhar	1/2/08
	Assistant Professor, CSE	Juno 1200
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	Technology, The Assam Royal Global University	
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9	Ms. Ankifa Goyal Agarwala	Arvita 28/11/18
	Assistant Professor, Royal School of Engineering & Technology The Assum Royal Global Univers	11118
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Royal School of Information Technology

Minutes of the 2nd BOS Meetings for Royal School of Information and technology

Date: 28/11/2018

Time: 10.30 am

Location: Room No 403, B Block, RGU

Meeting Chaired by Prof. (Dr.) B. Banerjee, Chairperson and Dean i/c

Members Present:

Prof. (Dr.) B. Banerjee Chairperson, BOS

Dr. Subhrajyoti Bordoloi Special Invitee **Dept of Computer Applications** Assam Engineering College, Guwahati

Mr. Aniruddha Deka Ex-officio Member, BOS HOD, RSIT

Mrs Ankita Goyal Agarwala Nominated Member, BOS Assistant Professor, RSIT

Mrs Gitimoni Talukdar Bora Assistant Professor, RSET

Prof (Dr.) P. H. Talukdar Internal Expert, BOS

Mr. Jyotish Talukdar **Industry Expert Technical Manager** Zaloni Technologies India Pvt. Ltd., Guwahati

Dr. Monalisa Deka Nominated Member Secretary, BOS Assistant Registrar (Academics), RGU

Mr. Saurabh Sutradhar Special Invitee Assistant Professor, RSET

Agenda of the Meeting:

- Presentation and suggestion on proposed syllabi on already approved course structures of UG and PG courses of RSIT.
- Regularization of Evaluation /Examination patterns
- Review of UG syllabi of RSIT from 1st to 4th semesters (if any).
- Any other matter with the permission of chair person

The meeting commenced with a welcome address by Mrs. Ankita Goyal Agarwala , Nominated Member of BOS, RSIT.

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Deliberation from Members present:

- BOS members unanimously agreed that Elective Subjects of undergraduate courses must include only introductory concepts and their practical applications, as detailed knowledge of those can be attained in higher stages of study.
- Industry Expert pointed out that if the course includes mathematics as a subject, then its scope must be limited to the domain of computer science only.
- Members also suggested that there should be more number of papers under each Elective
 Departmental and Open) and these should be categorized specialization wise so that students
 can choose specific domains of their interest.
- The Industry Expert suggested that the paper Data Science using Python instead of Data Warehousing and Data Mining under Elective I be offered, as it is more relevant to current industry scenario.
- 5. The Academic Expert pointed out that the scope of the paper Wireless Sensor Network under Elective II is only limited to sensor network. Instead, Wireless Network will be more suitable.
- 6. Some members proposed that the 5th semester MCA Project must have a specific predefined domain related to industry.
- 7. It was proposed that an Internship of 6 months/full semester, during 6th semester of MCA, will be more effective than an academic project.

Consequently, the following Resolutions were adopted:

For BCA & BSc (IT):

- More numbers of elective papers included in the course and they are grouped into 3 (three) domains viz. (i)Application oriented, (ii)Data Science oriented and (iii) Network oriented.
- 2. Data Science using Python introduced as an elective paper in the course.
- Syllabus of Mathematics is to be revised with the incorporation of concepts from Discrete Mathematics, Data Science, Networking, etc. as per the suggestion cited by the experts.
- 4. Practical papers in 5th and 6th semesters have been updated with relevant and current topics to equip students with real life application knowledge.

For MCA:

- 1. Papers from Data Science domain included in Electives as suggested by the expert.
- 2. "Wireless Sensor Network", the elective paper in Elective II is replaced by "Wireless Network".
- 3. So as to assess the domain of each student's project and make it industry relevant, it has been decided to have a brain storming session among 5th semester MCA students and Industry Experts prior to the students starting their 5th semester projects.
- 4. Six month long/full semester Internship Programme included for 6th semester students.

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Modalities for B. Tech. (Honours) in Engineering:

 B. Tech, students (all branches) enrolled since Academic Session 2018-19 onwards can register for B. Tech. (Honours) in the respective Branch of Engineering at the beginning of their 4th semester, subject to meeting the eligibility requirements as mentioned below.

a. Eligibility:

- i. *Existing:* a minimum CGPA of 6.0/10.0 with no back paper to clear at the end of 1st year.
- Proposed: a minimum CGPA of 6.0/10.0 with no back paper in 1st and 2nd semester.
- 2. A student will be eligible to be awarded B. Tech. (Honours) in their respective Branch of Engineering under the following conditions-

a. Existing:

- In addition to the credits specified in the B. Tech. curriculum, if he/she completes an additional 20 credits through MOOCs.
- ii. B. Tech. (Honours) will be awarded with no class.

b. Proposed:

- In addition to the credits specified in the B. Tech. curriculum, if he/she earns an additional minimum 20 credits through MOOCs, within the span of 4th semester to 8th semester.
 - A. A student can opt for credit courses (papers) provided through various MOOCs portals like NPTEL, SWAYAM etc. or any other portal suggested by the respective department at the beginning of every semester.
 - B. The list of opted papers should be approved by departmental Head at the beginning of every semester.
 - C. In a semester a student can opt for maximum of 2 courses and/or a maximum of 8 credits.
 - D. A student will have to bear themselves the registration, examination, or certification fee of MOOCs courses, if applicable.
 - E. In case of MOOCs courses where credits are not mentioned, the UGC standard may be followed w.r.t. duration of the course (in no. of hours). RGU will take necessary decisions in this regard.
 - F. A student must score minimum 60% in every MOOCs course.
 - G. Records of enrolments and results must be maintained by the departmental Head. Compiled summary of every session will

have to be forwarded to the Dean and Controller of

- A student have to complete all the 8 (eight) semesters of B. Tech. without any backlog in regular courses (papers); i.e. excluding the MOOCs courses.
- A student after clearing any MOOCs course will have to produce the original Mark-sheet/Grade-card/Certificate to the departmental head for verification, along with a copy of the same for official records.
 - A. All acquired credits will be added as an additional part of the final Mark-sheet at the end of the 8th semester only, provided all the requirements for B. Tech. (Honours) are satisfied.
 - B. Decision of award of B. Tech. (Honours) will be reflected only at the final Mark-sheet provided all the requirements for B. Tech. (Honours) are satisfied.
 - C. Mark-sheets of the intermediate semesters will not reflect any information about MOOCs scores or B. Tech. (honours).
- iv. B. Tech. (Honours) will be awarded with no class.

The Assam Royal Global University
Third Meeting of Boards of Studies (805)
Royal School of Information & Technology
Date: 30/04/2019
Time:

Venue:

The Assam Royal Global University Betkuchi, NH-37 Gunahati-781035

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1	Prol. (Dr.) B. Banenjee	
4	Prof. (Dr.) B. Banenjee Dean i/c of Royal School of Information	1R 3019
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	& Technology, The Assam Royal Global University	Total State of the
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	Members Prof. (On.) P. H. Talukdan Professor, Royal School of Engineering & Technology, The Assam Royal Global University	Signature
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	Dr. Animuddha Deka Assistant Professor & HOS i/c Royal School of Information & Technology The Assam Royal Global University	
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4	Dr. Monalisa Deka Assistant Registran (Academics) The Assam Royal Global University	Name.
	Assistant Registrat (Academics)	
	The Assam Koyal global University	
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Serial No.	Expents	Signature
5	Dr. Subhrajyati Bondoloi	
	Associate Professon, Assam	Coode
	Engineering College (AEC)	
	Dr. Subhrajyoti Bondoloi Associate Professon, Assam Engineering College (AEC) Jalukbari, Guwahati- 781013	
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6	Mr. Jyotish Talukdan	falululu)
	Technical Manager, Zaloni	
	Mr. Jyotish Talukdan Technical Manager, Zaloni Technologies India Pvt. Ud.,	
	guwahati	
	Special Invites	
7	Prof. (Dr.) Alak Kuman Buragohain	
	Chain person (Academics)	
	Prof. (Dr.) Alak Kuman Buragohain Chainperson (Academics) The Assam Royal Global University	
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8	Ms. Ankita Goyal Aganwala	
	Assistant Profesion, Royal School of	
	Engineering & Technology	Ankita
	Assistant Profesion, Royal School of Engineering & Technology The Assam Royal Global University	
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The Assam Royal Global University

Third Meeting of the Board of Studies (BoS)

Royal School of Information Technology (RSIT)

30th April 2019

Members Present:

- 1. Prof. (Dr.) B. Banerjee, Chairperson of the BoS; Dean i/c, RSIT
- 2. Prof. (Dr.) P. H. Talukdar, ProfessorEmeritus
- Dr.AniruddhaDeka, Assistant Professor & HoD (i/c), Department of Computer Science & Engineering, RSIT
- Mr.Debasish Dev Misra, Assistant Professor, Department of Computer Science & Engineering, RSET
- Mr. Jyotish Talukdar, Technical Manager, Zaloni Technologies India Pvt. Ltd, Guwahati, Expert
- Dr.SubhrajyotiBordoloi, Associate Professor, Department of Computer Applications, Assam Engineering College, Guwahati – 13, Expert

Minutes of the Meeting

{BCA & B. Sc. (IT) }

Suggestions

- a) Modifications suggested in the Department Specific Electives (DSE) such as:
 - Under Elective II. Software Project Management can be renamed as Software Engineering.
 - Under Elective IV. E-Commerce can be offered in place of Cryptography. Further, Social Network Analysis can be renamed as Social Networking.
 - Introduction to Probability and Statistics can be included as a core subject in lieu of E-Commerce.

b) Modifications in the Generic Electives such as:

- In Generic Elective I, Introduction to Computing can be offered in lieu of Basic Mathematics.
- Fundamentals of Computer Science can be offered as GE paper.
- In Generic Elective III, Introduction to Database Systems can be offered in lieu of Introduction to Social Media.
 - Further, with the permission of the chair, modifications on the syllabus of Big Data Analytics for M. Tech (CSE) and M. Sc.(IT) were discussed. The experts suggested a few changes.

Action taken

All suggestions have been taken care of and implemented to the extent possible.

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Fourth Meeting of the Boards of Studies (BOS)

Royal School of Information Technology (RSIT)

Royal School of Engineering & Technology (RSIT)

Date: 23/05/2020

Platforen: Webex (Online mode)

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1.	Prof. (Dr.) Alak K. Buragohain	V
	Prof. (Dr.) Alak K. Buragohain Chairperson Academics and Dean ilc of RSET & RSIT The Assam Royal Global University	
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٦.	Mr. Tyotish Taluxdan	<u> </u>
	Technical Manager, Kaloni	M of
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	Members	N. C.
3.	Dr. Animuddha Deka.	
	Assistant Professon and HODile	RELIGION OF THE PARTY OF THE PA
	Royal School of Information Technology	
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4,	Mr. Debashis Der Misna	
	Assistant Professor	
	Department of CSE KSE!	
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2.	Me. Johita Chakraborty	
	Assistant Projectore	
	Department of CSE, RSET The Assam Royal Global university	> at
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6.	Members Ms. Giterroni Taluxdan. Assistant Professon, Depontment g CSE, The Assam Royal Global University	Sig
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	Assistant Professor, Descator to 100	
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	Me. Artana Malakar Assistant Professon, Department of CSE Je Assam Royal Global University	
8.	Mr. Sourach Sutradhan	4
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0	Mr. Sourach Sutradhar Assistant Professor Department of CIE The Assam Royal Global University.	
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	Mr. Mayor Tyoli Kalita Assistant Projesson. Department of BEE The Assam Royal Global University.	
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	Ms. Arkita Goyal Aganuala Anistant Projesson, RSIT The Akam Royal Global University.	Arri
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n	Ms. Stanson Nebar Houdbury Secturer, Department of CIE / The Assam Royal Globall University.	
	Lecturer, Department of CIE	
	The Assam Royal Global University	
12	Me. Porierita Golwani	
	Lecturer, Department of CSE	
	Lecturer, Department of CSE The Assam Royal Global University	· Y
13.	Mr. Taibur Rahman	
	Teaching Assistant, Department of CSE	
Ray	Teaching Assistant Department of CSE The Assam Royal Global University	
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MINUTES OF THE FOURTH BOS MEETING OF RSIT

Date: 23/5/2020

Time: 12 noon

Platform: Webex (Online mode)

Meeting Conducted by: Dr. Aniruddha Deka, HOD, Dept. of CSE

Agenda of the Meeting: Review of the course structure of B. Tech (CSE) and MCA

Attendees Present:

Dr. Aniruddha Deka, HOD, Dept. of CSE

Mr. Jyotish Talukdar, Industry Expert, BOS

Dr. Manoj Kumar Sarma, Assistant Professor, Dept. of CSE

Mr. Debashis Dev Misra, Assistant Professor, Dept. of CSE

Mr. Saurabh Sutradhar, Assistant Professor, Dept. of CSE

Ms. Ishita Chakraborty, Assistant Professor, Dept. of CSE

Ms. Gitimoni Talukdar, Assistant Professor, Dept. of CSE

Ms. Antara Malakar, Assistant Professor, Dept. of CSE

Ms. Ankita Goyal Agarwala, Assistant Professor, Dept. of CSE

Ms. Shamsun Nehar Choudhury, Lecturer, Dept. of CSE

Ms. Parismita Goswami, Lecturer, Dept. of CSE

Mr. Taibur Rahman, Teaching Assistant, Dept of CSE

Remarks:

- 1. Mr. Talukdar was satisfied with the overall course content in both CSE and MCA.
- Mr. Talukdar suggested to add Cloud computing course as one of the elective in as cloud technologies led by AWS, Azure have gained lot of traction and adaptation across all IT organizations and is a must to succeed for most engineers.
- 3. Mr. Talukdar also mentioned that most companies now work on advanced and adopted software methodologies such as Agile, Devops, Kanban etc., in addition to traditional waterfall model. Knowledge of these through a subject would be really helpful in practical applications when they walk into a working environment.
- It was also suggested in the meeting that Artificial Intelligence course can be included in the 7th semester of B.Tech Programme and Cryptography and Network Security in the 8th semester, both as core papers.

Motion of the Meeting:

All the suggestions from the members have been duly noted down and required changes have been incorporated in the course structure.

The Assam Royal Global University
Fifth Meeting of the Board of Studies (BOS)
Royal School of Information Technology
Royal School of Information Technology

Date: 13th July 2021

St. No.	Chairperson	Signature
1.	Prof. (Dr.) Alak Kr. Buragahain	
4	Chairperson accidences	
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	The Asam Royal Global University	
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	Expert	
2	Dr. Subhrajyoti Bordoloi	
TRANSPORT	Associate Professor, Department of Computer	
	Application, Assum Engineering College	
	Members Present	
3	Dr. Aviruddha Deka	
	Assistant Professor, HoD(i/c) Department of	
	CSE Coordinator RSIT, Royal Global	
4	Mr. Saurabh Butradhar	
	Assistant Professor. Dept. of CSE, Royal Global University	
	7.	
5	Mrs. Getimoni Talukdar Bera Assistant Brofessor Dept of CSE, Royal Global University	
	Assistant Brofessor Dept of CSE, Royal Global	
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6	Mr. Nagan Tyote Kalita,	
	Mr. Nayan Jyot Kalita, Assistant Professor, Dept of CSE, Royal	
	Global University	
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7	Members Prexents Ms Alsana Laskar	Y Maria
		and
	Lecturer, Dept. of CSE, Royal Global University	15-7- 21
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8	Ms. Parismita Goswami	
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9	Ms. Shamsun Nehar Choudlury	
	Lecturer, Dept of CSE, Royal Global University	ALC: No.
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The Assam Royal Global University

MINUTES OF THE FIFTH BOS MEETING

Royal School of Engineering & Technology Royal School of Information Technology

13th July 2021

Time: 11.00 a.m.

Platform: Google Meet (Online Mood)

Meeting Chaired by: Prof. (Dr.) Alak Kr. Buragohain Chairperson and Dean i/c, RSET

Agenda of the Meeting:

Presentation and Suggestions on proposed course structures/syllabi of UG and PG courses, RSET and RSIT.

Experts Present:

Dr. Subhrajyoti Bordoloi Associate Professor, Department of Computer Applications, AEC.

Dr. Bibhash Sharma Associate Professor, Department of Civil Engineering, AEC.

Attendees Present:

Dr. Aniruddha Deka, Assistant Professor, HOD, Dept. of CSE,Co Ordinator IT

Dr. Arnab Sarma, Assoc. Prof, HOD, Dept. of CE, RSET

Mr. Saurabh Sutradhar, Assistant Professor, Dept. of CSE

Ms. Gitimoni Talukdar, Assistant Professor, Dept. of CSE

Mr. Nayan Jyoti Kalita, Assistant Professor, Dept. of CSE

Ms. Shamsun Nehar Choudhury, Lecturer, Dept. of CSE

Ms. Parismita Goswami, Lecturer, Dept. of CSE

Ms. Afsana Laskar, Lecturer, Dept. of CSE

Mr. Zunaid Ahmed, Assistant Professor, RSET

Mr. Ashok Talukdar, Assistant Professor

Mr. Biswajit Choudhury, Assistant Professor, RSET

Dr. Hirak Ranjan Das, Assistant Professor, RSET

Topics Discussed:

- 1. Course Structure of M.Tech CSE(AI)
- 2. Course Structure of M.Tech CSE(IOT)
- 3. Course Structure of M. Tech CSE

- 4. Course Structure of B. Tech CSE
- 5. Course Structure of B.Tech + M.Tech Integrated
- 6. Course Structure of BCA
- 7. Course Structure of MCA 2 Years
- 8. Bridge Course for MCA
- 9. Course Structure of MCA 3 Years
- 10. Course Structure of B.Sc IT
- 11. Course Structure of M.Sc IT
- 12. Course Structure of B.sc + M.Sc IT (Integrated 4 years)

Remarks from Members Present:

1. M.Tech CSE (Specialization in AI)

- Prof. Bordoloi suggested that the M.Tech CSE to be awarded with specialization in Artificial Intelligence (AI).
- MOOCS subjects to be provided for elective subjects.

2. M.Tech CSE (Specialization in IOT)

- Prof. Bordoloi suggested that the M.Tech CSE to be awarded with specialization in Internet of Things IOT).
- MOOCS subjects to be provided for elective subjects.

3. M.Tech CSE

- Prof. Bordoloi suggested that the Mathematical Foundations for Computer Science to be removed.
- Core subjects like Distributed System and Data Mining to be included in the syllabus.
- Advanced Computer Architecture.
- With due permission from faculty and expert present, Syllabus has been modified in subjects: Web Technologies, Advanced Database Management system, Advanced Computer Architecture, Theory of Computation and Advanced Computer Networks.
- In Third semester Robotics and Intelligence Systems has been provided as core subject.

4. B.Tech CSE

- Prof. Bordoloi suggested that the Discrete Mathematics to be included in third semester.
- Computer graphics to be brought in Fourth semester.
- Attendance % weightage to be increased and to be suggested to Academic Council.
- In Sixth semester Software Engineering to be included.
- Biology for Engineers for CSE will be under GE program.

5. B.Tech + M.Tech Integrated 5 Years

- · Multiple exit and multiple entry to be facilitated.
- · Seventh and Eight semester syllabus to be changed.
- If a student completes till Sixth Semester, Diploma Certificate to be given.
- If a student completes till Eight Semester, B.Tech CSE Degree to be given.
- If a student completes full course, B.Tech + M.Tech Integrated Degree to be given.

6. BCA 3 Years

- In First Semester, Subject "Digital Logic and System Design" is changed to "Digital Logic".
- In Third Semester, Subject "Data Communication" is removed and the subject "Graph Theory" is added.
- In Fourth Semester, the name of the subject "Computer Networks" is changed to "Data Communication and Networks".
- In Sixth Semester, the subject "Management Information Systems" is removed and the subject "Artificial Intelligence" is added.

7. MCA 2 Years

- ELIGIBILITY FOR ADMISSION (As Per AICTE)
 - Passed BCA / B.Sc (IT/CS) / Bachelor Degree in Computer Science Engineering or equivalent degree.

OR

- Passed B.Sc, B.Com, B.A with Mathematics at 10+2 or at Graduate
 Level(With Additional 1 Year Bridge Course)
- Obtained at least 50% (45% marks in case of candidate's belonging to reserved category-ST/SC) in the qualifying examination.
- As suggested by Prof. Bordoloi, In the First semester Subject name "Data Structures and Algorithms to be renamed as Advanced Data Structure and syllabus to as designed as Advanced Data Structure.
- MFCS to be removed from the First semester and other subject such as Operating
 System-I to be included in the First Semester.
- In the Second Semester, Probability and Statistics to be kept in Bridge Course and Distributed System to be included.
- In Second Semester, Modern Operating System can be renamed as Operating System-II with advanced topics included.
- In Second Semester, Database Management System to be renamed as Advanced Database Management System.
- In Second Semester, Database Management System Lab to be renamed as Advanced Database Management System Lab.

- In Third Semester the subject "Software Project Management" is removed and the subject "Advanced Software Engineering" is added.
- In the Fourth semester, AECC paper to be provided from the MOOCS courses.
- In Fourth Semester, the name of the subject "Full Time Industrial Training/Internship" is changed to "Project Dissertation".
- The paper on English in the fourth semester has been advised to be removed.

8. Bridge Course (1 Year)

- Prof. Bordoloi suggested the following subjects for 1 Year Bridge Course.
- · First Semester:
 - ↓ Introductory Programming using C.
 - **★** Mathematical Foundation for Computer Science.
 - **↓** Digital System.
 - **↓** Fundamentals of Computer.

 - **↓** Communicative English.

· Second Semester:

- **↓** Introduction to Computer Networks.
- **↓** Probability & Statistics
- **↓** Introduction to DBMS.
- **↓** Data Structure with Object Oriented Programming.
- **↓** Data Structure with Object Oriented Programming Lab.
- Exit criteria: PGDCA certificate to be provided if the student doesn't want to purse
 MCA and successfully completed the Bridge Course.

9. PGDCA (1 Year)

In First Semester, Introductory Programming to be included.

10. MCA 3 Years

No changes

11. M.Sc. IT

- In Second Semester Subject "Data warehousing "has been renamed as "Data Warehousing and Data Mining" and syllabus has been modified.
- In Second semester, Computer Networks subject has been renamed to Advanced Computer Networks.
- Subject code of Modern Operating system has been interchanged with Web Technology.
- In Fourth semester, subject Data Mining has been removed and replaced by Big Data
 Analytics.

12. B.Sc IT +M.Sc IT Integrated (4 Years)

- Criteria: Student cannot leave in between and B.Sc IT degree cannot be provided.
- Must complete the course to get B.sc + M.Sc Integrated degree.
- Notification to academic council regarding the exit criteria.

Motion of the Meeting

- All the suggestions from the experts have been taken care of and implemented to the best of its
 extent.
- Multiple exit multiple entry criteria for Course will be implemented as per UGC guideline on the same matter.
- For MCA 2-years programmes, the bridge courses will be covered through online platforms like MOOCS, SWAYAM, NPTEL, etc.
- The English paper from 4th semester of 2-year MCA programme has been removed as they are required to go for industrial internship for 6 months in final semester

The Assam Royal Global University
6th Meeting of Board of Studies (BOS)
Royal Exhool of Engineering & Technology (R.SET)

Royal School of Gusformation Technology

Date: 17.05.2022

Venue :

Serial No	Chairperson	Signature
1.	Prof. (Dr.) Alak Kr. Buragahain	1118
	Chairperson (Academic)	AMUS-
	Dean-in-Charge RSET RSIT, RGU	17.05
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5.	Dr. Anupam Das	
	Associate Professor, Department of CSE Royal School of Engineering & Technology	Mur.
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MINUTES OF THE MEETING

Date: 17/5/2022

Time: 3:00pm onwards

Location: Conferentia B block 5th Floor

Meeting Conducted by: Dr. Aniruddha Deka, HOD, Dept. of CSE

Agenda of the Meeting: Review of the course structure of B. Tech (CSE) and MCA

Attendees Present:

Dr. Aniruddha Deka, HOD, Dept. of CSE

Dr. Shikhar Kumar Sharma, Academic Expert, BOS

Dr. Anupam Das, Associate Professor, Dept. of CSE

Ms. Ishita Chakraborty, Assistant Professor, Dept. of CSE

Ms. Gitimoni Talukdar, Assistant Professor, Dept. of CSE

Mr. Saurabh Sutradhar, Assistant Professor, Dept. of CSE

Mr. Nayan Jyoti Kalita, Assistant Professor, Dept. of CSE

Ms. Nilakshi Deka, Assistant Professor, Dept. of EE

Ms. Ankita Goyal Agarwala, Assistant Professor, Dept. of CSE

Ms. Parishmita Goswami, Lecturer, Dept. of CSE

Ms. Afsana Laskar, Lecturer, Dept. of CSE

Ms. Spandan Borthakur, Lecturer, Dept. of CSE

Ms. Pritishma Konwar, Lecturer, Dept. of CSE

Mr. Diganto Sahu, Lecturer, Dept. of CSE

Mr. Vikram Bikash Das, Lecturer, Dept. of CSE

Remarks:

BTech CSE

- Dr. Shikhar Sharma Sir suggested that number of Mathematics paper have to be reduced.
 He suggested that there can be at most two Mathematics paper Mathematics-I & Discrete Mathematics.
- 2. Dr. Sharma proposed that there should be one Environmental Studies paper in BTech which should be offered in the first semester. He suggested that the name of the paper should be changed to "Environmental Studies-I".
- Dr. Shikhar Sharma insisted on providing basics of computing and hence suggested a
 paper in BTech first year where basics of computing will be taught and the name he
 suggested as Fundamentals or Foundation of Computing.
- The subjects Operating Systems should be shifted to 6th Semester & instead Data Communication Networks should be brought to 5th semester.

- Dr. Sharma suggested the name of OS lab to be changed as OS & System Programming Lab.
- The subject Microprocessor can be blended with COA & insisted on introducing a python programming subject in 6th semester.
- One seminar paper has to be given in B.tech 6th semester to enhance the writing & reading skills which can be either of 1 or 2 credit.
- Dr. Sharma recommended to have one paper related to Application Development (both theory and practical) at the level of 3rd year, before internship.
- Dr. Sharma emphasis on renaming the paper Cryptography and network Security to Cryptography and Cyber Security which will include components of Cyber Law and Cyber Security

M.Tech CSE

- Dr. Shikar Sharma recommended that there should be Advance Web Technology Subject in the first semester instead of Web Technology. Since they have already studied the paper in B.Tech.
- The external expert suggested to convert the Communicative English Paper in terms of Research paper writing.
- 3. Dr. Sharma proposed to incorporate a Machine Learning paper in first semester instead of Data mining paper, which can be given as optional paper.
- Dr. Sharma suggested that the Computing lab of first semester should include components of Advanced DBMS and Web Technology.
- 5. Dr. Sharma proposed to remove COA paper as a core subject and to include COA and Data Mining as elective in first sem.
- 6. Dr. Sharma proposed not to put core subject in 3rd semester, and only electives paper should be there.
- Dr. Sharma suggested not to put any Communicative English, Behavioral Science or any other core theory paper in 4th semester. And also expressed that the focus should be only be on Research project.

M.tech In Artificial intelligence

- Dr. Shikar Sharma initiated with the remark about who are the eligible candidates from different courses to join the Post graduate course of Artificial Intelligence.
- Dr. Sharma proposed to shift the Machine Learning paper to first semester instead of 2nd semester.
- 3. The external expert suggested to put Natural Language Processing paper in first semester.
- Dr. Sharma proposed to shift Statistical Decision Making and Data Visualization paper to 2nd semester.

- Dr. Sharma suggested to club Predictive and Variance Analysis and Statistical Decision making.
- 6. Dr. Sharma suggested to put Pattern Recognition paper and Digital Image Processing paper as electives.
- 7. Dr. Sharma proposed to keep only one elective paper and project in 3rd semester and he also suggested to have only project in 4th sem.
- 8. Dr. Sharma proposed that the total credit for this course should be around 80 to 90.

BCA

- 1. Dr. Shikhar Sharma suggested to change the name of the paper "Digital Logic and Computer Design" as "Digital Logic".
- 2. Dr. Sharma put forward his opinion to remove Graph Theory paper from the course structure of BCA.
- 3. Dr. Sharma recommended to introduce OS & Admin System Lab instead of OS lab.
- 4. The external expert proposed one elective paper in 5th semester, which will include both Theory and lab. And he also recommended the elective paper to be any one of the following. Web tech or Application Development & Information theory/ Mobile Application Development.
- 5. Dr. Sharma Suggested to omit System Analysis and Design and to introduce Software Engineering in 6th semester.
- 6. Dr. Sharma recommended to introduce Machine Learning and Python instead of Artificial Intelligence in 6th sem.

B.Sc(IT)

- Dr. Shikar Sharma proposed to introduce one core subject in B.Sc(IT), one science subject elective and one humanities paper in first semester.
- 2. Dr. Sharma suggested that the 2nd semester curriculum should be aligned with 2nd semester BCA and along with it should include science paper and one humanities paper.
- 3. Dr. Sharma suggested Graph theory can be introduced in 3rd semester along with one science elective and one discipline elective.
- Dr. Sharma proposed to have one science elective and one discipline elective in 4th semester.
- 5. The expert proposed to have two electives, one discipline core and either one core or science elective.
- 8. It was also suggested in the meeting that Artificial Intelligence course can be included in the 7th semester of B.Tech Programme and Cryptography and Network Security in the 8th semester, both as core papers.

Integrated BSc IT-MSc IT

- Dr. Shikhar Sharma accepted the proposal of introducing a new subject in integrated BSc IT 5th semester i.e, Information Theory and Coding/ Statistical Computing using R.
- Dr. Sharma suggested to omit the subject System Analysis & Design in 6th semester and further added to include subjects Multimedia theory or Cyber Security and AI or NLP as one of the core paper.
- 3. He proposed to have the paper research methodology, one elective paper & one major project.
- 4. In 9th & 10th semester Dr. Sharma proposed to have one elective paper & major project.

MSc-IT

 Dr. Shikhar Sharma recommended to keep the course structure of MSc-IT same as integrated MSc-IT.

MCA

- 1. The course structure of MCA first semester should be included from MSc-IT first semester.
- 2. In second semester Dr. Shikhar Sharma recommended that pattern recognition paper is not required as per MSc-IT core structure.
- In 3rd semester the expert proposed to have advanced web technology paper instead of Web Technology. He also advised to scrap Design & Analysis of Algorithm and Advanced Software Engineering paper.
- 4. He proposed to keep one seminar paper in 3rd Semester and to include just one elective paper along with project phase 1.
- 5. In 4th semester the expert proposed to remove comprehensive viva and introduced two elective papers along with project phase 2.
- 6. The total course credit he recommended to keep it below 90.

Motion of the Meeting:

All the suggestions from the members have been duly noted down and required changes will be incorporated in the course structure.

Date: 21/12/2022

To, Prof. Subhrajyoti Bordoloi Professor, Department of Computer Application Assam Engineering College

Subject- Intimation regarding nomination as external expert and to attend the meeting of Board of Studies (Departmental Board) of the Department of Information Technology (RSIT).

Dear Sir,

Greetings from The Assam Royal Global University!

We are pleased to have you as a nominated external expert of the Board of Studies (Departmental Board) for the department of Information Technology (RSIT).

I take the privilege to intimate you that the meeting of Board of Studies (Departmental Board) of the department of Information Technology (RSIT) is scheduled on 22nd December 2022 at The Assam Royal Global University, Guwahati from 10 am.

I request your goodself to kindly accept the invitation and attend the meeting and provide your valued guidance.

Looking forward for your acceptance and gracious presence.

Sincerely yours

Dr Diganta Munshi

Registrar

The Assam Royal Global University

Reviewed Nova

The Assam Royal Global University
The Meeting of Board of Studies (Bos)
Royal School of Information Technology
Date: 22/12/2022

Venue: Conferentia, B block 5th floor.

SL. NO.	Chairperson	Signature
1.	Prof. (Dr.) Ankur Ganguly Dean-Academics and	0
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	Expert (Academic)	
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	Expert (Academic) Der Subhrajyati Bordoloi Perofessor, Department of Computer Applications, Assam Engineering College, Jalukbari, Guwahati-181013	
	Members	
3.	Du. Anupam Das	A. C.
	Associate Professor, Department of CSE	2 Miles
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	Ms. Ishita Chakrabody Assistant Professor, Dept. of CSE, RET	22/12/2
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	Ms. Gitimoni Talukdan Assistant Professor, Dept. of CSE, RSET	122/12/12
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8.	Ms. Ankita Goyal Aganwal Assistant Professor, Department of CSE, RSET	Arkith aspeller
9.	Ms. Antara Malakaer Assistant Professor, Department of CSE	Antony 12/2022
10.	Mr. Nayan Jyoti Kalita Assistant Professos, Dept. of CSE	Air Pa
n.	Mr. Spandan Kr. Barthakur Assistant Professor, Dept. of CSE	The salista
12.	Ms. Afsana Laskan. Assistant Professor, Dept. of CSE	Carper 22/12/22
13-	Ms. Pauismita Goswami Assistant Professor, Dept. of CSE	Phospani 23/142
14.	Ms. Nilakshi Deka Assistant Professor, Dept. of CSE	Harra 12/22
16.	Ms. Pritishma Komoan Assistant Professor, Dept. of CSE	
16.	Dr. Sumi Kankana Dewan Assistant Professor, Dept. of CSE	
17.	Dr. Israfil Hussain Assistant Professor, Dept. of CSE	

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	18.	Mr. Amoop Kumar Prasad	0
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1/1		Dr. Kamal Debnath, Associate Professor, Dept. of Mathematics, RSAPS, RGU	
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		Mathematics, RSAPS, RGU	22/12/
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MINUTES OF THE MEETING

Date: 22/12/2022

Time: 10:00 am onwards

Location: BOG room

Meeting Conducted by: Dr. Anupam Das, Associate Professor, Co-ordinator (RSIT)

Agenda of the Meeting: Review of the course structure of BCA and BSC IT

Attendees Present:

Dr. Subhrajyoti Bordoloi, Professor, Department of Computer Applications, Assam Engineering College, Academic Expert, BOS

Dr. Diganta Munshi, Registrar, RGU

Dr. Ankur Ganguly, Dean (i/c) RSET & RSIT, Dean(Academics), RGU

Mr. Anoop Kumar Prasad, Software Engineer, Capgemini, Industry Expert

Dr. Anupam Das, Associate Professor, Co-ordinator (RSIT)

Dr. Arnab Sarma, HoD, Department of CE, RSET

Dr. Kammal Debanath . Associate Professor, Department of Mathematics .RASPS, RGU

Dr. Bimalendu Kalita , Associate Professor ,Department of Mathematics ,RASPS, RGU

Ms. Ishita Chakraborty, Co-ordinator & Assistant Professor, Dept. of CSE

Ms. Gitimoni Talukdar, Assistant Professor, Dept. of CSE, RSET

Ms. Antara Malakar, Assistant Professor, Dept. of CSE, RSET

Mr. Saurabh Sutradhar, Assistant Professor, Dept. of CSE, RSET

Mr. Nayan Jyoti Kalita, Assistant Professor, Dept. of CSE, RSET

Ms. Nilakshi Deka, Assistant Professor, Dept. of CSE, RSET

Remarks for BSC IT:

After much deliberation and discussion Hon'ble expert Dr.Subhrajyoti Bordoloi along with Dr.Diganta Munshi,Registrar, RGU and Dr.Ankur Ganguly,Dean (i/c) RSET & RSIT, Dean(Academics),RGU suggested the following changes:

1st Semester:

- To rename the core subjects as: i) Mathematical Foundation of Computer Science; ii) Introduction to Programming using C/C++, iii)Digital Logic/Digital Systems.
- 2) The Mathematical Foundation of Computer Science paper should include 1 module of Mathematical Foundation and three modules of Discrete Mathematics.
- 3) To include a subject like "Introduction to Web Technology" instead of Office Automation in VAC-I.

2nd Semester:

- 1) To rename the subject Data Structures as Data Structures and Algorithms.
- 2) To include the paper in place of Discrete Maths
- 3) to change the subject "Computer Hardware & Networking" to an advance subject like" Introduction to Linux & Shell Programming"
- 4) To rename the SEC-II subject as Windows programming using C#.
- 5) to give easy GE Subject and to change the GE allotted in 2nd Semester (Cyber Site Programming).

3rd Semester:

- 1) To include embedded SQL in DBMS.
- 2) To rename OOP using Java as OOP using Core Java.
- 3) To dilute the syllabus of GE-VI: E-Commerce. Bordoloi Sir suggested to remove few topics and include topics like ethics, IPR, cyber laws and also to rename the subject as Cyber Laws and IPR in E-Commerce. He also suggested to provide specific pre-requisites for all GE subjects being offered.

4th Semester:

- 1) The industry expert Anoop Kumar Prasad suggested to provide opportunity for internship at the starting of the session.
- 2) He also suggested to modify the VAC subject offered in 4th semester, i.e. Disaster Management. He suggested that the Disaster Management paper should be department specific and should include topics like Data Recovery or Cloud Services.
- 3) Dr. Subhrajyoti Bordoloi Sir suggested that instead of Linux Administration, system administration can be given in 4th semester and must include UNIX, Windows and Server Management.

Other Comments:

- Dr. Bordoloi recommended to remove the Probability & Statistics paper from 5th semes of BSC IT. In 5th semester course structure, Sir also suggested to rename the 5th semester subject "System Analysis and Design" as "Software Engineering" and suggested to put the prerequisites for Software Engineering as DBMS and Data Structure.
- 2) He also suggested to increase the list of Department Specific Elective papers in 3rd and 4th semester. He also suggested to not include the paper" Recent Trend in Computer Science"

- in the list of Department Specific Electives. He also suggested to include Artificial Intelligence in the list of Department Specific Electives.
- Dr.Ankur Ganguly Sir suggested to add IOT and Data Science in the list of Department Specific Elective papers in either 3rd or 4th semester.
- 5) Data Communication and Networking should not be DSE. It must be compulsory in 5th or 6th semester and can be renamed as DCN and Information Security.

Remarks for BCA:

1st Semester & 2nd Semester:

 Dr. Subhrajyoti Bordoloi Sir suggested to keep the 1st year course structure of BCA same as BSC IT 1st year course structure.

3rd Semester:

- 1) Core Java should be renamed as Core Java in Linux
- 2) Graph theory should be renamed as Applications of Graph Theory in Computer Science.

4th Semester:

liporous practical papers must be in 4th sem. OS can be in the 5th sem.

Other Comments:

- 1) The School Board also suggested to keep the course structure of BCA application based and B.Sc. (11) to be more of science background.
 - Subhrajyoti Bordoloi Sir suggested to keep all programming based practical papers till semester.
 - 3) Dr.Bordoloi recommended to keep "Advanced Java" as an elective paper in 4th semester CA.
 - 4) He also suggested that the Cloud Computing can be given as DSE or compulsory in 3rd somester.
 - 5) Software Engineering must be included in System Analysis and Design in 6th semester and mame as Software Engineer.
 - 6) Lab marks must be reflected in the marksheet in NEP.

7) More effort must be given in core subjects rather than in GE.

Motion of the Meeting:

All the suggestions from the members have been duly noted down and required changes will be incorporated in the course structure. The curriculum will be changed as per the decision taken by the School Board in BOS meeting which will be rectified in the upcoming Academic Council Meeting to be held on 29th December, 2022.

Ref. No. RGU/BoS/2022-23/04-21

Date: 24/04/2023

To. Mr. Anoop Kr Prasad Software Engineer Capgemini

Subject- Intimation regarding nomination as external expert (Industry) and to attend the meeting of Board of Studies (School Board) of Royal School of Information Technology (RSIT).

Dear Sir.

Greetings from The Assam Royal Global University!

We are pleased to have you as a nominated external expert (Industry) of the Board of Studies (School Board) of Royal School of Information Technology (RSIT).

I take the privilege to intimate you that the meeting of Board of Studies (School Board) of Royal School of Information Technology (RSIT) is scheduled on 24th April 2023 at The Assam Royal Global University, Guwahati from 12 pm onwards.

I request your good self to kindly accept the invitation and attend the meeting and provide your valued guidance.

Looking forward for your acceptance and gracious presence.

Sincerely yours

Dr Diganta Munshi

Registrar

The Assam Royal Global University

Registrar

The Assam Royal Global University

Guwahati

2220400 57

(Under Section 2(f) of UGC Act 1956)

Ref. No. RGU/BoS/2022-23/04-20

Date: 24/04/2023

To, Prof. (Dr.) Subhrajyoti Bordoloi HoD, Department of Computer Applications, Assam Engineering College

Subject- Intimation regarding nomination as external expert (Academic) and to attend the meeting of Board of Studies (School Board) of Royal School of Information Technology (RSIT).

Dear Sir,

Greetings from The Assam Royal Global University!

We are pleased to have you as a nominated external expert (Academic) of the Board of Studies (School Board) of Royal School of Information Technology (RSIT).

I take the privilege to intimate you that the meeting of Board of Studies (School Board) of Royal School of Information Technology (RSIT) is scheduled on 24th April 2023 at The Assam Royal Global University, Guwahati from 12 pm onwards.

I request your good self to kindly accept the invitation and attend the meeting and provide your valued guidance.

Looking forward for your acceptance and gracious presence. 3

Sincerely yours

Dr Diganta Munshi

Registrar

The Assam Royal Global University

Registrar The Assam Royal Global University Guwahati The Assam Raph Global University
8th Moeting of the Board of Studies (BOS)
Royal School of Information Technology
Dati: 24/04/23
Venue: A-202

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MINUTES OF THE MEETING 8th BOARD OF STUDIES

ROYAL SCHOOL OF INFORMATION TECHNOLOGY (RSIT)

Date: 24/04/2023

Time: 12:30 PM onwards

Venue: A-202

Agenda of the Meeting: Review of the Course Structure & Syllabi of the proposed subjects of the final year of BCA & B. Sc. (IT).

Attendees Present:

Dr. Subhrajyoti Bordoloi, Professor & HoD, Department of Computer Applications, Assam Engineering College, Academic Expert, BOS

Dr. Diganta Munshi, Registrar, RGU

Prof. (Dr.) Ankur Ganguly, Dean (i/c) RSET RSIT, RGU

Mr. Anoop Kumar Prasad, Software Engineer, Capgemini, Industry Expert

Dr. Anupam Das, Associate Professor, Coordinator (RSIT)

Dr. Ishita Chakraborty, Associate Professor, Coordinator Dept. of CSE

Dr. Samarjit Das, Associate Professor, Dept. of CSE

Ms. Gitimoni Talukdar, Assistant Professor, Dept. of CSE

Ms. Antara Malakar, Assistant Professor, Dept. of CSE

Ms. Ankita Goyal Agarwal, Assistant Professor, Dept. of CSE

Mr. Spandan Kumar Barthakur, Assistant Professor, Dept. of CSE

Ms. Afsana Laskar, Assistant Professor, Dept. of CSE

Ms. Pallabi Goswami, Assistant Professor, Dept. of CSE

Remarks for BCA

Hon'ble expert Dr. Subhrajyoti Bordoloi along with Dr.Diganta Munshi, Registrar, RGU and Prof.(Dr.)Ankur Ganguly, Dean(i/c), RSET& RSIT, Dean (Academics), RGU suggested the following changes:

5th Semester:

1) Minor project to be renamed as Project-I with credit structure L-T-P-C as 0-0-12-6.

6th Semester:

- 1) Artificial Intelligence paper under Department Specific Core (DSC) to be replaced by Project-II with credit structure L-T-P-C as 0-0-8-4.
- 2) The practical component for "Software Engineering" can be conducted using a simulator. Rational Rose software may be utilized or acquired for this purpose.
- 3) The DSE-IV paper titled "Introduction to Embedded Systems" is set to be substituted with Artificial Intelligence.
- 4) The paper Artificial Intelligence to be renamed as "Introduction to Artificial Intelligence".
- 5) Honorable board suggested to revise the Cryptography and Network Security syllabus by dividing the first two modules into four modules and exclude the Network Security component
- 6) Syllabus of Introduction to Natural Language Processing under DSE-VII can be altered and made simple.

Remarks for B. Sc. (IT):

5th Semester:

1) Minor project to be renamed as Project-I with credit structure L-T-P-C as 0-0-12-6.

6th Semester:

- 1) Theory of Computation paper under Department Specific Core (DSC) to be replaced by Project-II with L-T-P-C as 0-0-8-4.
- 2) The rest of the suggestions remains same as for BCA.

Other Comments:

- 1) The board proposed that the internship should be undertaken following the even semester and assessed in the ensuing odd semester.
- 2) The Project-I chosen in the 5th semester should be of sufficient magnitude to be continued into the 6th semester as Project-II.
- 3) Subjects offered for other schools under Skill Enhancement Courses (SEC) and Generic Electives (GE) to be listed in a separate annexure.

Motion of the Meeting:

All of the recommendations provided by the members have been recorded, and the necessary modifications will be included in the course framework. The curriculum will be revised in accordance with the decision made by the School Board during the BOS meeting, which will be finalized in the upcoming Academic Council Meeting scheduled for 26th April, 2023.

Date: 12/12/2023

To, Mr. Anoop Kr Prasad Software Engineer Capgemini

Subject- Intimation regarding nomination as external expert (Industry) and to attend the meeting of Board of Studies (School Board) of Royal School of Information Technology (RSIT).

Dear Sir,

Greetings from The Assam Royal Global University!

We are pleased to have you as a nominated external expert (Industry) of the Board of Studies (School Board) of Royal School of Information Technology (RSIT).

I take the privilege to intimate you that the meeting of Board of Studies (School Board) of Royal School of Information Technology (RSIT) is scheduled on 13th December 2023 at The Assam Royal Global University, Guwahati from 3 pm onwards.

I request your good self to kindly accept the invitation and attend the meeting and provide your valued guidance.

Looking forward for your acceptance and gracious presence.

Sincerely yours

Dr Diganta Munshi

Registrar

The Assam Royal Global University

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Dr. Diganta Munshi Registrar The Assam Royal Global University Guwahati (Under Section 2(f) of UGC Act 1956)

Date: 12/12/2023

To, Prof. (Dr.) Subhrajyoti Bordoloi HoD, Department of Computer Applications, Assam Engineering College

Subject- Intimation regarding nomination as external expert (Academic) and to attend the meeting of Board of Studies (School Board) of Royal School of Information Technology (RSIT).

Dear Sir,

Greetings from The Assam Royal Global University!

We are pleased to have you as a nominated external expert (Academic) of the Board of Studies (School Board) of Royal School of Information Technology (RSIT).

I take the privilege to intimate you that the meeting of Board of Studies (School Board) of Royal School of Information Technology (RSIT) is scheduled on 13th December 2023 at The Assam Royal Global University, Guwahati from 3 pm onwards.

I request your good self to kindly accept the invitation and attend the meeting and provide your valued guidance.

Looking forward for your acceptance and gracious presence.

Sincerely yours

Dr Diganta Munshi

Registrar

The Assam Royal Global University

Dr. Diganta Munshi Registrar The Assam Royal Global University Guwahati

	The Messam Royal Global University 9th Meiling of the Board of Studies Royal School of Information Technology Date: 13/12/23 Venue: 1209	(BDS) y ((SIT)
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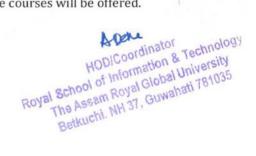
MSc.IT (AY 2017-18)

Programme Structure

		1st semester					
Sl. No.	Subject Code	Names of subjects	L	Т	P	С	TCP
	Cor	e Subjects (3+3+3+3+3+2+2+2+2=23 credi	ts)				
1	INT054101	Web Technologies	2	1	0	3	3
2	INT054102	Theory of Computations	2	1	0	3	3
3	INT054103	Advanced Data Structures	2	1	0	3	3
4	INT054104	Object Oriented Programming and Design	2	1	0	3	3
5	INT054105	Advanced COA	2	1	0	3	3
6	INT054116	Web Technologies Lab	0	0	4	2	4
7	INT054117	Computer Hardware Lab	0	0	4	2	4
8	INT054118	Data Structures Lab	0	0	4	2	4
9	INT054119	OOPD Lab	0	0	4	2	4
	Employability and Person	ality Enhancement Courses (EPEC)*(1+2+3	+1 = 7	7 cred	its)		=
8	CEN994101	Communication: skills, concepts & applications	1	0	0	1	1
9	FLG994102	Foreign Language - I**	2	0	0	2	2
10	ILD994103/ EVS994103	India - land of Diversity	3	0	0	3	3
11	BHS994104	Elements of Behavioral Science	1	0	0	1	1
		2nd semester					
Sl. No.	Subject Code	Names of subjects	L	T	P	С	TCP
	Cor	e Subjects (4+4+4+3+3+2+2+2+2=26 credi	ts)		1		
1	INT054201	Computer Networks		1	0	4	4
2	INT054202	Operating Systems	3	1	0	4	4
3	INT054203	Advanced Database Management Systems	3	1	0	4	4
4	INT054204	Computer Graphics	2	1	0	3	3
5	INT054205	Multimedia Theory and Applications	2	1	0	3	3
6	INT054216	Computer Networks Lab	0	0	4	2	4
7	INT054217	Operating Systems Lab	0	0	4	2	4
8	INT054218	Advanced DBMS Lab	0	0	4	2	4
9	INT054219	Graphics & Multimedia Lab	0	0	4	2	4
	The second secon	nality Enhancement Courses (EPEC)*(1+2+		-	ts)		
7	CEN994201	Business Environment & Communication	1	0	0	1	1
8	FLG994202	Foreign Language - II**	0	0	2	2	
9	ILD994203/EVS994203	Foreign Language - II** 2 0 0 2 Community Service Camp					
10	BHS994204	Development of Individuals and Behavioral Skills 1 0 0 1					

Note:

^{**} Subject to availability of faculty members, few foreign language courses will be offered.



^{*} These are compulsory subjects and scores/grades will be awarded in the end-semester examination.

	_	3rd semester					
Sl. No.	Subject Code	Names of subjects	L	Т	P	С	TCP
		Core Subjects (4+4+4+3+3+2+2+2+2=26 cre	edits)				
1	INT054301	Design and Analysis of Algorithms	3	1	0	4	4
2	INT054302	Data Mining	3	1	0	4	4
3	INT054303	Electronic Commerce	3	1	0	4	4
4	INT054304	Research Methodology	2	1	0	3	3
5	INT05405	Data Analytics using R	2	1	0	3	3
6	INT054216	Design and Analysis of Algorithms Lab	0	0	4	2	4
7	INT054317	Electronic Commerce Lab	0	0	4	2	4
8	INT054318	R Programming Lab	0	0	4	2	4
9	INT054319	Data Mining Lab	0	0	4	2	4
		Employability & Personality Enhancement	Course	s (EPE	C)*		
10	CEN994301	Kinesics & Effective Communication	1	0	0	1	1
11	FLG994302	Foreign Language - III**	2	2 0		2	2
12	BHS994304	Self-Development and Relationship Management	1	0	0	1	1
		4th semester					
Sl. No.	Subject Code	Names of subjects	L	T	P	С	TC
	2	Core Subjects (4+4+4+14=26 credits)					
1	INT054401	Elective-I	3	1	0	4	4
2	INT054402	Elective-II	3	1	0	4	4
3	INT054403	Elective-III	3	1	0	4	4
4	INT054424	Project	0	0	28	14	28
6	CEN994401	Advanced Corporate Communication Skills	1	0	0	1	1
7	FLG994402	Foreign Language - IV**	2	0	0	2	2
8	BHS994404	Team Work and Leadership for Excellence	1	0	0	1	1
		Employability & Personality Enhancement	Course	s (EPE	C)*	2	
9	CEN994401	Advanced Corporate Communication Skills	1	0	0	1	1
10	FLG994402	Foreign Language - IV**	2	0	0	2	2
11	BHS994404	Team Work and Leadership for Excellence	1	0	0	1	1

Note:

* These are compulsory subjects and scores/grades will be awarded in the end-semester examination.

** Subject to availability of faculty members, few foreign language courses will be offered.



M. Sc. IT (AY 2018-19)

Programme Structure

		1st semester								2nd semeste	r				
SI. N o.	Subject Code	Names of subjects	L	Т	P	С	TC P	Sl. N o.	Subject Code	Names of subjects	L	Т	P	С	TC P
	(Core Courses (0	CC)						(Core Courses (CC)				
1	INT054C10 1	Advanced Database Managemen t Systems	4	0	0	4	4	1	INT054C20 1	Computer Networks	4	0	0	4	4
2	INT054C10 2	Data Structures using C++	4	0	0	4	4	2	INT054C20 2	Web Technologie s	4	0	0	4	4
3	INT054C10 3	Object Oriented Programmin g and Design	4	0	0	4	4	3	INT054C20 3	Operating System Architecture	4	0	0	4	4
4	INT054C10 4	Advanced Computer Organisatio n and Architecture	4	0	0	4	4	4	INT054C20 4	Multimedia Theory and Applications	4	0	0	4	4
5	INT054C11 1	Advanced Database Managemen t Systems Lab	0	0	2	1	2	5	INT054C21 1	Computer Networks Lab	0	0	2	1	2
6	INT054C11 2	Data Structures using C++ Lab	0	0	2	1	2	6	INT054C21 2	Web Technologie s Lab	0	0	2	1	2
7	INT054C11 3	Object Oriented Programmin g and Design Lab	0	0	2	1	2	7	INT054C23	Operating System Architecture Lab	0	0	2	1	2
	Departme	ent Specific Ele	ectiv	ve (DSE)			Departm	ent Specific El	ecti	ve (DSE)	
8	INT054D10 X1	Elective-I	4	0	0	4	4	9	INT054D20 X2	Elective-II	4	0	0	4	4
A	Ability Enhanc	ement Elective	e Co	urs	es (AEE	C)		Ability Enhan	cement Electiv	e C	our	ses (AEE	2)
								10	CIT054S20 X1	AEEC-I	2	Г	0	2	2
Ab	ility Enhancer	nent Compulso	ory	Cou	rses	s (AE	ECC)	Ab	ility Enhance	ment Compuls	ory	Cor	urse	s (AE	CCC)
9	CEN984A1 01	Communicat ive English-I	1	0	0	1	1	11	CEN984A2 01	Communicat ive English- II	1		0	1	1
10	BHS984A10 3	Fundamenta ls of Organizatio nal Behaviour	1	0	0	1	1	12	BHS984A2 03	Individual and Interperson al Behaviour	1	0	0	1	1
		TOTAL				2 5	28			TOTAL				2 7	30

		3rd semester							va-	4th semeste	r				
SI. N o.	Subject Code	Names of subjects	L	Т	P	С	TC P	Sl. N o.	Subject Code	Names of subjects	L	Т	P	С	TC P
	(Core Courses (C	CC)							Core Courses (CC)				
1	INT054C30 1	Analysis of Algorithms	4	0	0	4	4	1	INT054C40 1	Data Mining	4	0	0	4	4
2	INT054C30 2	Compiler Design	4	0	0	4	4	2	INT054C40 2	Cryptograph y and Network Security	4	0	0	4	4
3	INT054C31 1	Analysis of Algorithms Lab	0	0	2	1	2								
4	INT054C31 2	Compiler Design Lab	0	0	2	1	2								
	Departme	ent Specific Ele	ectiv	/e (DSE)			Departm	ent Specific El	ecti	ve (DSE)	
5	INT054D3 0X3	Elective-III	4	0	0	4	4	3	INT054D4 0X5	Elective-V	4	0	0	4	4
6	INT054D3 0X4	Elective-IV	4	0	0	4	4	4	INT054D4 0X6	Elective-VI	4	0	0	4	4
Ab	ility Enhancer	nent Compulso	ory (Cou	rse	s (AF	ECC)	Al	oility Enhance	ment Compuls	ory	Coi	ırses	s (AE	CC)
7	CEN984A3 01	Communicat ive English- III	1	0	0	1	1	5	CEN984A4 01	Communicat ive English- IV	1	0	0	1	1
A	Ability Enhanc	ement Elective	e Co	urs	es (AEE	C)								
8	CIT054S30 X2	AEEC-II	2	0	0	2	2								
	Pı	oject Disserta	tion	1					P	roject Disserta	itio	n			
9	INT054C32 6	Minor Project	0	0	8	4	8	6	INT054C42 5	Major Project	0	0	1 6	8	16
		TOTAL				2 5	31			TOTAL				2 5	34

SEMESTER	CREDITS	
I	25	
II	27	
III	25	
IV	25	

TOTAL CREDITS = 102



	W	LIST OF DEPA	ARTMENT SPECIFIC ELECTIVES
Elective No	Sl. No	Subject Code	Name of the Elective
	1	INT054D1011	Theory of Computation
I	2	INT054D1021	Graph Theory
**	1	INT054D2012	Management Information System
II	2	INT054D2022	Optimisation Techniques
***	1	INT054D3013	Distributed Operating Systems
III	2	INT054D3023	Artificial Intelligence
***	1	INT054D3014	Cloud Computing
IV	2	INT054D3024	Mobile Computing
**	1	INT054D4015	Digital Image Processing
V	2	INT054D4025	Wireless Sensor Networks
***	1	INT054D4016	Mobile Application Development
VI	2	INT054D4026	Python Programming

			SUBJECTS UNDER AEEC
AEEC No	Sl. No	Subject Code	Name of the Elective
*	1	CIT054S2011	Fundamentals of Computer Science
1	2	CIT054S2021	Introduction to Computing
.,	1	CIT054S3012	Programming using MATLAB
II	2	CIT054S3022	Text Editing Tool



BCA (AY-2017-18)

Programme Structure

		1st semester					
Sl.No.	Subject Code	Names of subjects L		T	P	С	TCP
		Core Subjects (3+3+3+3+1+1=14 credits)					
1	CAP052101	Introduction to C Programming 2		1	0	3	3
2	CAP052102	PC Software 2		1	0	3	3
3	CAP052103	Fundamentals of Computer Science 2		1	0	3	3
4	MAT052104	Mathematics-I 2		1	0	3	3
5	CAP052115	C Programming Lab 0		0	2	1	2
6	CAP052116	PC Software Lab 0		0	2	1	2
	Employability and l	Personality Enhancement Courses (EPEC)*(1+2+3-	1+1+	3 = 11	credi	ts)	
9	CEN992101	Developing Oral Communication & Listening Skills	1	0	0	1	1
10	FLG992102	Foreign Language - I**	2	0	0	2	2
11	EVS992103/ ILD992103	Environmental Science / India - land of Diversity	3	0	0	3	3
12	PHE992114	Physical Education - I	0	0	2	1	2
13	BHS992105	Concepts of Behavioral Science	1	0	0	1	1
14	BSK982146	Basket Course (may lead to minor track if chosen from same domain in different semesters) ***				3	3 5 54
		2nd semester	- 100				
Sl.No.	Subject Code	Names of subjects	L	Т	P	С	TCP
	10	Core Subjects (3+3+3+3+1+1=14 credits)					
1	CAP052201	Introduction to Digital Systems	2	1	0	3	3
2	CAP052202	Principles of Management	2	1	0	3	3
3	MAT052203	Mathematics-II	2	1	0	3	3
4	CAP052204	Data Stuctures	2	1	0	3	3
5	CAP052215	Data Stuctures Lab	0	0	2	1	2
6	CAP052216	Digital Systems Lab	0	0	2	1	2
		Personality Enhancement Courses (EPEC)*(1+2+3-	+1+1+	3 = 11	credi	its)	30731
9	CEN992201	Conversation & Public Speaking	1	0	0	1	1
10	FLG992202	Foreign Language - II**	2	0	0	2	2
11	ILD992203/ EVS992203	India - land of Diversity / Environmental Science	3	0	0	3	3
12	PHE992214	Physical Education - II	0	0	2	1	2
13	BHS992205	Understanding Self and Others	1	0	0	1	1
14	BSK982246	Basket Course (may lead to minor track if chosen from same domain in different semesters) ***				3	

Note:

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Royal NH 37, Guwahati 781035

^{*} These are compulsory subjects and scores/grades will be awarded in the end-semester examination.

^{**} Subject to availability of faculty members, few foreign language courses will be offered.

^{***} These courses will be offered subject to availability of faculty members and other resources

		3rd semester					
Sl. No.	Subject Code	Names of subjects	L	T	P	С	TCP
		Core Subjects (3+3+3+3+2+2=16 credits)				
1	CAP052301	Computer Oriented Numerical Methods	2	1	0	3	3
2	CAP052302	System Software	2	1	0	3	3
3	CAP052303	Programming in Visual Basic	2	1	0	3	3
4	SOC052304	Introduction to Sociology	2	1	0	3	3
5	CAP052315	Computer Oriented Numerical Methods Lab	0	0	4	2	4
6	CAP052316	Visual Basic Lab	0	0	4	2	4
	Employability and	d Personality Enhancement Courses (EPEC)*(1+2+3	+1+1	= 8 cr	edits)	
9	CEN992301	Career Oriental Communication	1	0	0	1	1
10	FLG992302	Foreign Language - III**	2	0	0	2	2
11	BHS992303	Understanding Problems and Innovative Solutions	1	0	0	1	1
12	BSK982344	Basket Course (may lead to minor track it chosen from same domain in different semesters) ***	f			3	
		4th semester					
Sl. No.	Subject Code	Names of subjects	L	Т	P	С	TCP
	i i	Core Subjects (3+3+3+3+2+2=16 credits)				
1	CAP052401	Computer Oriented Financial Accounting	2	1	0	3	3
2	CAP052402	OOP using C++	2	1	0	3	3
3	CAP052403	Computer Organization and Architecture	2	1	0	3	3
4	CAP052404	Introduction to Operating Systems	2	1	0	3	3
5	CAP052415	Computer Oriented Financial Accounting Lab	0	0	4	2	4
6	CAP052416	OOP using C++ Lab	0	0	4	2	4
	Employability and	d Personality Enhancement Courses (EPEC)*(1+2+1	+1+3	= 8 cr	edits)	
9	CEN992401	Communication & Presentation Skills	1	0	0	1	1
10	FLG992402	Foreign Language - IV**	2	0	0	2	2
11	BHS992403	Team Building, Group Dynamics and Leadership	1	0	0	1	1
12	BSK982444	Basket Course (may lead to minor track if chosen from same domain in different semesters) ***				3	

Note:

* These are compulsory subjects and scores/grades will be awarded in the end-semester examination.

** Subject to availability of faculty members, few foreign language courses will be offered.

*** These courses will be offered subject to availability of faculty members and other resources



		5th semester					
Sl. No.	Subject Code	Names of subjects	L	Т	P	С	TCP
		Core Subjects (3+3+3+3+1+1=16 credits)					
1	CAP052501	Core Java Programming	2	1	0	3	3
2	CAP052502	Introduction to Database Management Systems	2	1	0	3	3
3	CAP052503	Introduction to Computer Networks	2	1	0	3	3
4	CAP052504	Introduction to Open Source Technologies	2	1	0	3	3
5	CAP052515	DatabasLab Management Systems Lab	0	0	4	2	4
6	CAP052516	Java and Computer Networks Lab	0	0	4	2	4
	Emp	oloyability & Personality Enhancement Courses	(EPEC)*			
9	CEN992501	Ethics and Business Communication	1	0	0	1	1
10	FLG992502	Foreign Language - V**	2	0	0	2	2
11	BHS992503	Stress Management	1	0	0	1	1
12	BSK982544	Basket Course (may lead to minor track if chosen from same domain in different semesters) ***				3	
		6th semester					×
Sl. No.	Subject Code	Names of subjects	L	Т	P	С	TCP
		Core Subjects (3+3+3+7=16 credits)					
1	CAP052601	Introduction to Software Engineering	2	1	0	3	3
2	CAP052602	Introduction to Web Design	2	1	0	3	3
3	CAP052603	Elective-I	2	1	0	3	3
4	CAP052624	Project	0	0	14	7	14
	Emp	loyability & Personality Enhancement Courses	(EPEC)*)	
7	CEN992601	Effective Workplace Communication	1	0	0	1	1
8	FLG992602	Foreign Language - VI**	2	0	0	2	2
9	BHS992603	Relationship Management and Behavioral Communication	1	0	0	1	1
10	BSK982604	Basket Course (may lead to minor track if chosen from same domain in different semesters) ***				3	

Note:

* These are compulsory subjects and scores/grades will be awarded in the end-semester examination.

** Subject to availability of faculty members, few foreign language courses will be offered.

*** These courses will be offered subject to availability of faculty members and other resources



BCA (2018-19)

Program Structure

		1st SEMESTE	ER							2 nd SEMESTER					
Sl. N o.	Subject Code	Names of subjects	L	Т	P	С	TC P	Sl. N o.	Subject Code	Names of subjects	L	Т	P	С	TC P
	(Core Courses	(CC)						Core Courses (CC)					
1	CAP052C 101	Fundamen tals of Computer Science	3	1	0	4	4	1	CAP052C 201	Computer Organization and Architecture	3	1	0	4	4
2	CAP052C 102	Introducti on to C Programm ing	3	1	0	4	4	2	CAP052C 202	Introduction to Data Structures	3	1	0	4	4
3	CAP052C 103	Digital Logic and Computer Design	3	1	0	4	4	3	CAP052C 203	Object Oriented Programming using C++	3	1	0	4	4
4	CAP052C 112	Introducti on to C Programm ing Lab	0	0	4	2	4	4	CAP052C 212	Introduction to Data Structures Lab	0	0	4	2	4
5	CAP052C 114	Office Automatio n Lab	0	0	4	2	4	5	CAP052C 213	Object Oriented Programming using C++ Lab	0	0	4	2	4
	Ge	neric Elective	e (G	E)						Generic Elective (Gl	Ε)			1	0.2
6	CIT052G1 0X1	GE-I***	3	0	0	3	3	6	CIT052G2 0X3	GE-III***	3	0	0	3	3
7	CIT052G1 0X2	GE-II***	3	0	0	3	3	7	CIT052G2 0X4	GE-IV***	3	0	0	3	3
Α	bility Enhar	(AECC)	pul	sor	y Co	urs	es		Ability Enh	ancement Compulsory	Cou	ırse	s (A	ECC))
8	BHS982A 104	Concepts of Behaviour al Science	1	0	0	1	1	8	BHS982A 204	Understanding Self and Others	1	0	0	1	1
9	CEN982A 101	Developing Oral Communic ation and Listening Skills	1	0	0	1	1	9	CEN982A 201	Conversation and Public Speaking	1	0	0	1	1
		TOTAL				2	28			TOTAL				2 4	28
		3rd SEMESTE	ER							4th SEMESTER					
SI. N o.	Subject Code	Names of subjects	L	Т	P	С	TC P	SI. N	Subject Code	Names of subjects	L	Т	P	С	TC P
		Core Course	es							Core Courses					
1	CAP052C 301	JAVA Programm ing	3	1	0	4	4	1	CAP052C 401	Operating Systems	3	1	0	4	4

Royal School of Information & Technology The Assam Royal Global University Betkuchi, NH 37, Guwahati 781035

															9-11
2	CAP052C 302	Introducti on to Database Manageme nt Systems	3	1	0	4	4	2	CAP052C 402	Computer Networks	3	1	0	4	4
3	CAP052C 303	Data Communic ation	3	1	0	4	4	3	CAP052C 403	Computer Graphics and Multimedia	3	1	0	4	4
4	CAP052C 311	JAVA Programm ing Lab	0	0	4	2	4	4	CAP052C 411	Operating Systems Lab	0	0	4	2	4
5	CAP052C 312	Introducti on to Database Manageme nt Systems Lab	0	0	4	2	4	5	CAP052C 413	Computer Graphics and Multimedia Lab	0	0	4	2	4
	Ge	neric Elective	e (G	E)						Generic Elective (GE	()				
6	CIT052G3 0X5	GE-V***	3	0	0	3	3	6	CIT052G4 0X7	GE-VII***	3	0	0	3	3
7	CIT052G3 0X6	GE-VI***	3	0	0	3	3	7	CIT052G4 0X8	GE-VIII***	3	0	0	3	3
Ab	ility Enhanc	ement Electiv	ve C	our	ses	(AE	EC)		Ability Er	nhancement Elective Co	urs	es ((AEE	(C)	
7	CIT052S3 0X1	AECC-I	2	0	0	2	2	8	CIT052S4 0X2	'AECC-II	2	0	0	2	2
A		cement Com (AECC)	pul	sor	y Co	ours	es			ancement Compulsory	Cou	ırse	s (A	ECC)	
8	EVS982A 303	Environme ntal Sciences	2	0	0	2	2	9	CEN982A 401	Communication and Presentation Skills	1	0	0	1	1
9	CEN102A 301	Career Oriented Communic ation	1	0	0	1	1								
		TOTAL				2 7	31			TOTAL				2 5	29
		5th SEMESTI	ER	-						6th SEMESTER		1		1	
SI. N o.	Subject Code	Names of subjects	L	Т	P	С	TC P	Sl. N o.	Subject Code	Names of subjects	L	Т	P	С	TC P
	C	Core Courses	(CC)						Core Courses (CC)					
1	CAP052C 501	E- Commerce	4	0	0	4	4	1	CAP052C 601	Management Information Systems	4	0	0	4	4
2	CAP052C 502	Web Technolog y	4	0	0	4	4	2	CAP052C 602	System Analysis and Design	4	0	0	4	4
3	CAP052C 513	Web Technolog y Lab	0	0	4	2	4	3	CAP052C 613	System Analysis and Design Lab	0	0	4	2	4
	Disciplin	e Specific Ele	ecti	ve (DSI	Ξ)			Dis	scipline Specific Electiv	e (I	SE)		
4	CAP052D 50X1	Elective I	4	0	0	4	4	4	CAP052D 60X3	Elective III	4	1	0	4	4
									3	HODICOO	nati	on 8	Tec	hnolo	gy

Royal School of Information & Technology The Assam Royal Global University Betkuchi, NH 37, Guwahati 781035

		TOTAL				2 3	29			TOTAL				2 5	33
7	CAP052C 526	Mini Project	0	0	8	4	8	7	CAP052C 624	Major Project	0	0	1 2	6	12
	Pı	oject Dissert	atio	n						Project Dissertat	ion				
6	CEN982A 501	Communic ative English- V	1	0	0	1	1	6	CEN982A 601	Communicative English- VI	1	0	0	1	1
I	Ability Enhar	(AECC)	pul	sory	y Co	urs	es		Ability Enha	ancement Compulso	ry Cou	rse	s (A)	ECC)	
5	CAP052D 50X2	Elective II	4	0	0	4	4	5	CAP052D 60X4	Elective IV	4	0	0	4	4

SEMESTER	CREDITS
I	24
II	24
III	27
IV	25
V	23
VI	25

Total Credits=148

		LIST OF D	EPARTMENT SPECIFIC ELECTIVES
Elective No	Sl. No	Subject Code	Name of the Elective
7	1	CAP052D5011	Data Mining
1	2	CAP052D5021	Python Programming
11	1	CAP052D5012	Cryptography
II	2	CAP052D5022	Embedded System
	1	CAP052D6013	Software Application Development
III	2	CAP052D6023	Linux Administration
	3	CAP052D6033	Distributed System

		LIST	OF SUBJECTS OFFERED UNDER AEEC
AEEC No	Sl. No	Subject Code	Name of the Subject
	1	CIT052S3011	Introduction to Computing
1	2	CIT052S3021	Office Automation
II	3	CIT052S4012	Problem Solving using C++

^{***} The subjects under the 'Generic Elective' section can be opted from any department that will be offered in the respective session. However, subjects like 'Basic Mathematics', 'Accountancy' etc. will serve as a mandatory generic elective



6.2 Semester wise Details of BCA Course & Credit Scheme

BCA	
COURSE STRUCTURE (Ay-2020-21)	

		1st SEMESTER					
Sl. No.	Subject Code	Names of subjects	L	Т	P	С	ТСР
Core C	ourses (CC)			_		_	
1	CAP052C101	Fundamentals of Computer Science	3	1	0	4	4
2	CAP052C102	Introduction to C Programming	3	1	0	4	4
3	CAP052C103	Digital Logic and Computer Design	3	1	0	4	4
4	CAP052C112	Introduction to C Programming Lab	0	0	4	2	4
5	CAP052C114	Office Automation Lab	0	0	4	2	4
Gener	ic Elective (GE)						
6	INT052G10X	GE-I	3	0	0	3	3
7	INT052G10X	GE-II	3 .	0	0	3	3
Ability	Enhancement	Compulsory Courses (AECC)	.6				
8	BHS982A10 4	Concepts of Behavioural Science	1	0	0	1	1
9	CEN982A10 1	Developing Oral Communication and Listening Skills	1	0	0	1	1
		TOTAL	17	3	8	24	28
		TOTAL CREDIT: 24					
		2 nd SEMESTER					
Sl. No.	Subject Code	Names of subjects	L	Т	P	С	TCI
Core C	ourses (CC)						
1	CAP052C201	Computer Organization and Architecture	3	1	0	4	4
2	CAP052C202	Introduction to Data Structures	3	1	0	4	4
3	CAP052C203	Object Oriented Programming using C++	3	1	0	4	4
4	CAP052C212	Introduction to Data Structures Lab	0	0	4	2	4
		Object Oriented Programming using C++					

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Generic Elective (GE)

7

INT052G20X

INT052G20X

GE-III***

GE-IV***

8	BHS982A204	Understanding Self and Others	1	0	0	1	1
9	CEN982A201	Conversation and Public Speaking	1	0	0	1	1
		TOTAL	17	3	8	24	28
		TOTAL CREDIT: 24					
		3rd SEMESTER					
Sl. No.	Subject Code	Names of subjects	L	Т	P	С	TCF
Core	Courses						T
1	CAP052C301	JAVA Programming	3	1	0	4	4
2	CAP052C302	Introduction to Database Management Systems	3	1	0	4	4
3	CAP052C303	Graph Theory	3	1	0	4	4
4	CAP052C311	JAVA Programming Lab	0	0	4	2	4
5	CAP052C312	Introduction to Database Management Systems Lab	0	0	4	2	4
Gene	ric Elective (GE)						
6	INT052G30X	GE-V***	3	0	0	3	3
7	INT052G30X	GE-VI***	3	0	0	3	3
Abili	ty Enhancement	Elective Courses (AEEC)					
7	INT052S30X	AECC-I	2	0	0	2	2
Abili	ty Enhancement	Compulsory Courses (AECC)		7.50			
8	EVS982A303	Environmental Sciences	2	0	0	2	2
9	CEN102A30 1	Career Oriented Communication	1	0	0	1	1
		TOTAL	20	3	8	27	31
		TOTAL CREDIT: 27		VAI'.			
SQUIP A		4th SEMESTER		A SPACE			
S. No.	Subject Code	Names of subjects	L	Т	P	С	TCF
Core	Courses						
1	CAP052C401	Operating Systems	3	1	0	4	4
2	CAP052C402	Data Communication and Networks	3	1	0	4	4
3	CAP052C403	Computer Graphics and Multimedia	3	1	0	4	4
4	CAP052C411	Operating Systems Lab	0	0	4	2	4
5	CAP052C413	Computer Graphics and Multimedia Lab	0	0	4	2	4
Gene	ric Elective (GE)						
<mark>Gene</mark> 6	ric Elective (GE) INT052G40X	GE-VII***	3	0	0	3	3

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1 2 3 4 5	CAP052C601 CAP052C602 CAP052C612 CAP052D60X CAP052D60X	Artificial Intelligence System Analysis and Design System Analysis and Design Lab Discipline Specific Elective (DSE) Elective III Elective IV Compulsory Courses (AECC)	4 0 4 4	0 0 0	0 0 4	4 2 4 4	4 4 4
1 2 3	САР052С602 САР052С612 САР052D60X	System Analysis and Design System Analysis and Design Lab Discipline Specific Elective (DSE) Elective III	4 0	0 0	0 4	4 2	4 4
1 2 3	CAP052C602 CΛP052C612	System Analysis and Design System Analysis and Design Lab Discipline Specific Elective (DSE)	4 0	0	0 4	4 2	4
1 2	CAP052C602	System Analysis and Design System Analysis and Design Lab	4	0	0	4	4
1 2						4	4
	CAP052C601	Artificial Intelligence	4	0	0	4	4
			- 1	1.			2580
		Core Courses (CC)					
S No.	Subject Code	Names of subjects	L	Т	P	С	TCI
enzike)		6th SEMESTER					
		TOTAL CREDIT: 23	*				
		TOTAL	15	2	2	23	29
7	CAP052C523	Mini Project	0	0	8	4	8
Proje	ect Dissertation						
6	CEN982A501	Ethics and Business Communication	1	0	0	1	1
Abili	ty Enhancement	Compulsory Courses (AECC)		1000			
5	CAP052D50X	Elective II	4	0	0 4		4
4	CAP052D50X	Elective I	4	0	0	4	4
	pline Specific Ele	Web Technology Lab	10	U	T	4	4
3	CAP052C502	Web Technology	0	0	0 4 4 2		4
2	CAP052C501 CAP052C502	Introduction to Probability and Statistics Web Tachnology	4	0	0	4	4
	Courses (CC)	In the desired to Deal State and Continues	1	0		1	
No.	Subject Code	Names of subjects	L	T	P	С	TCI
S		5th SEMESTER					
						E-SAS-II-I-I-IIII	
		TOTAL CREDIT: 25	10	3	U	23	49
9	CEN982A401	Communication and Presentation Skills TOTAL	18	3	8	1 25	1 29
		Compulsory Courses (AECC)	1	0		1	1
8	INT052S40X	AECC-II	2	0	0	2	2
		Elective Courses (AEEC)					I
0.50	INT052G40X	GE-VIII***	3	0	0	3	3

		TOTAL TOTAL CREDI	15	2	10	25	33
				8.65	16		
7	CAP052C623	Major Project	0	0	12	6	12

Legend: L: Lecture Class; T: Tutorial Class; P: Practical Class: C: Total Credits

		LIST OF D	DEPARTMENT SPECIFIC ELECTIVES	
Elective No	Sl. No	Subject Code	Name of the Elective	
	1	CAP052D501	Introduction to Data Mining	
1	2	CAP052D502	System Administration	
**	1	CAP052D503	Introduction to Cloud Computing	
II	2	CAP052D504	Software Engineering	
***	1	CAP052D601	Introduction to Big Data Analytics	
Ш	2	CAP052D602	Mobile Application Development	
***	1	CAP052D603	E- Commerce	
IV	2	CAP052D604	Social Networking	
181		CAP052D605	Introduction to Embedded System	

		LIST OF	SUBJECTS OFFERED UNDER AEEC
AEEC No	SEM	Subject Code	Name of the Subject
		INT052S301	Problem Solving using C++
AEEC- I	3	INT052S302	Office Automation
		INT052S303	Quantitative Aptitude
AEEC II	EC II	INT052S401	General Aptitude
AEEC-II	4	INT052S402	Logical Ability and Reasoning

		LIST OF SUBJECT	TS OFFERED UNDER GENERIC ELECTIVES	
Elective No	SEM	Subject Code	Name of the Elective	
GE-I		INT052G101	Introduction to Computing	
GE-II	1	CSE052G102	Social Media Studies	
GE-III		INT052G201	Fundamentals of Web Design	
GE-IV	2	INT052G202	Open Source Software	
		CSE052G203	Foundation of IT	
GE-V	2	INT052G301	Windows Programming using C#	
GE-VI	3	INT052G302	IPR and Cyber Law	12
GE-VII		INT052G401	Python Programming	
GE-VIII	4	INT052G402	Fundamentals Artificial Intelligence	

8. Program Structure for BCA

BCA Course Structure

		Session 2022-2023					
		1st SEMESTER		1002			
Sl. No.	Subject Code	Names of subjects	L	Т	P	C	ТСР
		Discipline Specific Core (DSC)					
1	CAP052C101	Fundamentals of Computer Science	3	1	0	4	4
2	CAP052C102	Introduction to C Programming	3	0	1	4	5
3	CAP052C103	Digital Logic and Computer Design	3	0	1	4	5
		Generic Elective (GE)					
4	INT052G103	Web Development with JavaScript (GE-I)	3	0	0	3	3
5	INT052G104	Multimedia Tools and Applications (GE-II)	3	0	0	3	3
- 3		Ability Enhancement Compulsory Courses (A	ECC)	-	,		
6	CEN982A101	Developing Oral Communication and Listening Skills	1	0	0	1	1
7	BHS982A104	Concepts of Behavioural Science	1	0	0	1	1
		Skill Enhancement Courses (SEC)			-		
8	CAP052S111	Image Editing and Animation (SEC-I)	0	0	4	2	4
		Value Addition Courses (VAC)			,		
9	VAC992V117	Office Automation (VAC-I)	2	0	0	2	2
		TOTAL				24	
		2nd Semester					
Sl. No.	Subject Code	Names of subjects	L	T	P	С	ТСР
		Discipline Specific Core (DSC)					
-1	CAP052C201	Computer Organisation and Architecture	-3-	1	0	4	4
2	CAP052C202	Introduction to Data Structures	3	0	1	4	5
3	CAP052C203	Object Oriented Programming using C++	3	0	1	4	5
		Generic Elective (GE)					
4	INT052G201	Server-Side Programming (GE-III)	3	0	0	3	3
5	INT052G202	Introduction to Cyber Space (GE-IV)	3	0	0	3	3
		Ability Enhancement Compulsory Courses (A	AECC)				
6	CEN982A201	Conversation and Public Speaking	1	0	0	1	1
7	BHS982A204	Understanding Self and Others	1	0	0	1	1
		Skill Enhancement Courses (SEC)			•		
8	CAP052S211	Windows Programming using C# (SEC-II)	0	0	4	2	4
		Value Addition Courses (VAC)					
					_		100
9	VAC992A217	Computer Hardware and Networking (VAC-11)	0	0	4	2	4

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