BoS Meeting Minutes of the Programmes offered by the University (2017-22)

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CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Engineering & Technology

Department of Mechanical Engineering

Date: 09/07/2021

MINUTES OF BOARD OF STUDIES MEETING held on 09/07/2021

Virtual Mode

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Mechanical Engineering was held on 09/07/2021 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following are the members:

1. Dr. Srinivasa Rao Perla, Global Training Head-Cyient

2. Dr.U. Chandrasekhar, WIPRO 3D

3. Prof.S.S. Mohaptra, NIT Rourkela

4. Dr. A.M Mohanty, PRO VC, CUTM

5. Dr. R.C Mohanty, Professor, SOET, Mechanical

6. Prof. Prajna Paramita Debata, HOD, Mechanical

7. Mr. Hari Krishna, Final year student (placed in Byjus through campus recruitment)

8. Saubhagya Ranjan Parida, Alumni (Working in Federal Bank)

9. Abhisek Chinara, Alumni (Working in Tata Motors)

10. Mr. Rama Mohan, Parent

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Mechanical Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: **The minutes of the last meeting of the BoS held on 11/07/2020 were confirmed.**

Agenda 2: **Discussion and approval of any revision required in the Curriculum of B.Tech, Mechanical Engg. Basket 4 syllabus**

The HoD, Mechanical Engg. gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this , the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2021-22.

- Manufacturing Process-Process planning and Heat Treatment (2-1-0) (CUTM1079) is very heavy and easily split into courses of 3 credit each
- Fluid Mechanics with Finite Volume Method to be refined and made into two separate courses.
- Applied Ergonomics could be merged in product design course where DFM is dealt.
- Smart Track is a very good suggestion and should be implemented.

- List of new courses added *(Annexure A.)*
- The briefing comprised of credits distributions, courses and baskets layouts, and new inclusions such as the Smart Basket (Basket-III) Interdisciplinary domains etc.
- Discussion on modification of syllabus of Basket-4,5
- The domain course should be taught in practice and project mode.

The Board approved the changes suggested in the Manufacturing Process. List of existing courses where syllabus was changed in (*Annexure B*)

Agenda 3: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being.The same was agreed upon and approved by the Board members.*(Annexure C)*

The HoD, Department of Mechanical Engg. extended sincere thanks to all members of the Board.

The meeting ended with a voteof thanks to the Chair.

Dean, SoET

Dean, SOET
Centurion University of Technology & Management
Odisha

Dean, Academics

Dean - Academic
Centurion University of Technology & Management
Bhubaneswar, Khurda, Odisha-752050

HoD, Mechanical Engineering

List of new courses added

Sl. No	Course Title	Type(Skill/Employability/Entrepreneurship)	Credit
1	Computer Aided Drafting	Skill and Employability	3
2	Product Design and Development	Skill and Employability	2
3	Reverse Engineering and Rapid Prototype	Skill and Employability	4
4	Product Life Cycle Management	Skill and Employability	2
5	Manufacturing Process	Skill and Employability	3
6	Material in product design and development	Skill and Employability	2
7	Computer Aided Engineering	Skill and Employability	3
8	Quality Assurance	Skill and Employability	2
9	Applied Ergonomics	Skill and Employability	2
10	Computer Aided Manufacturing	Skill and Employability	2
11	CNC Programming & CNC Machining	Skill and Employability	2
12	Design of Tools, Jigs and Fixtures	Skill and Employability	3
13	Advance Metrology	Skill and Employability	2
14	Thermodynamics	Skill and Employability	3
15	Fluid Mechanics with Finite Volume Method	Skill and Employability	3
16	Hydraulic Machinery	Skill and Employability	2
17	Theory of Machines	Skill and Employability	3
18	Heat Transfer with FDM/FVM	Skill and Employability	3
19	Theories of Failure Using Finite Element Analysis	Skill and Employability	4
20	Optimisation Techniques	Skill and Employability	2
21	Programming in Java(Same as Java Technologies)	Skill and Employability	3
22	Database Management Systems	Skill and Employability	3

List of existing courses where syllabus was changed

Basket/ Semester	Name of Course	No. of Modules/Topics revised	Revised Modules/Topics (details)
1	Manufacturing Process	1	Course e was changed with little modification in content.

List of Skill courses (Basket) approved

Sl. No	Course Title	Credit	(T+P+P)
1	3D Game Art	4	0+3+1
2	Drug Design using Biovia Discovery Studio	4	0+3+1
3	Opthalmic Lens and spectacle manufacturing Techniques	4	0+3+1
4	Medical Diagnostic Techniques	4	0+3+1
5	Introduction to Aquaponics	4	0+3+1
6	Polyhouse Automation	4	0+3+1
7	Development of Processor (Shakti)	4	0+3+1
8	Spectroscopy	4	0+3+1
9	Extraction Technologies	4	0+3+1
10	Gamified DIY kits using Lasers	4	0+3+1
11	VR Assets Development	4	0+3+1
12	GIS and Remote Sensing: Applications in Participatory Natural Resource Management	4	0+3+1
13	GIS and Remote Sensing: Application Development	4	0+3+1
14	3D Modelling and Printing	4	0+3+1
15	Brew Master	4	0+3+1
16	3D Game Art	4	0+3+1
17	Drug Design using Biovia Discovery Studio	4	0+3+1
18	Opthalmic Lens and spectacle manufacturing Techniques	4	0+3+1
19	Medical Diagnostic Techniques	4	0+3+1
20	Introduction to Aquaponics	4	0+3+1
21	Polyhouse Automation	4	0+3+1
22	Development of Processor (Shakti)	4	0+3+1
23	Spectroscopy	4	0+3+1
24	Extraction Technologies	4	0+3+1
25	Gamified DIY kits using Lasers	4	0+3+1
26	VR Assets Development	4	0+3+1
27	GIS and Remote Sensing: Applications in Participatory Natural Resource Management	4	0+3+1
28	GIS and Remote Sensing: Application Development	4	0+3+1

29	3D Modelling and Printing	4	0+3+1
30	Brew Master	4	0+3+1

List of value added courses approved

Sl. No	Course Title	Hrs. of input
1	Ethical Hacking	30
2	Clinical Practice	30
3	Financial Literacy	30
4	MATLAB	30
5	MS Excel Basics	30
6	Pharmaceutical Dry-Lab Techniques	30
7	Research Methodology and IPR	30
8	Steps for Career Plan	30
9	TABLEAU	30
10	Technical Writing	30
11	Waste to Wealth	30
12	Web Development	30
13	Yoga and Meditation	30
14	Health and Lifestyle	30
15	Life Skills and Moral Value Education	30
16	Ansys	30
17	Video Making for Youtubers	30

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Engineering & Technology

Department of Mechanical Engineering

Time: 11.00 a.m.

Date: 09.07.2021

Venue: Board Room, CUTM, Bhubaneswar

Board of Studies Meeting

Attendance Sheet

Sl.No.	Name of the Member	Designation	Signature
1	Prof. S.S. Mohaptra	Professor, NIT Rourkela	Attended Online
2	Dr. A.M Mohanty	PRO VC,CUTM	Attended Online
3	Dr. P.K. Mohanty	Dean Academics	Attended Online
4	Dr. R.C Mohanty	Professor,SOET,Mechanical	Attended Online
5	Prof.Prajna Paramita Debata	HOD, Mechanical	Attended Online
6	Mr. Hari Krishna	Final year student (placed in Byjus through campus recruitment)	Attended Online
7	Saubhagya Ranjan Parida	Alumni(Working in Federal Bank)	Attended Online
8	Abhisek Chinara	Alumni(Working in Tata Motors)	Attended Online
9	Mr. Rama Mohan	Parent	Attended Online

Dean, SoET

Dean, SOET
Centurion University of Technology & Management
Odisha

Dean, Academics

Dean - Academic
Centurion University of Technology & Management
Bhubaneswar, Khurda. Odisha-752050

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Engineering & Technology

Department of Computer Science and Engineering

Date: 09.07.2021

MINUTES OF BOARD OF STUDIES MEETING held on 09.07.2021

Venue: Online

Time: 10.00 a.m.

The Board of Studies (BoS) meeting of Department of Computer Science and Engineering was held on 09.07.2021 at 10 a.m. in online mode. The following members were present:

1. Prof. (Dr.) Radhakant Padhi, Honorary Provost, Centurion University of Technology and Management
2. Dr. Sujata Chakravarty, Associate. Prof., HOD, CSE
3. Prof. Jagannath Padhi, Director, Centurion University of Technology and Management
4. Prof. (Dr.) Ashish Ranjan Dash, Associate Dean, SoET, Centurion University of Technology and Management
5. Mr. Pramod Saini, Co-founder of Icalibrator
6. Ms. Aruna Saini, Co-founder of Icalibrator
7. Mr. Suvendu Kumar Nayak, Assistant Professor, CUTM, BBSR
8. Anshit Ransingh, Alumni(Working as project executive in CUTM)
9. Rhythm Paul, Student, CUTM, BBSR

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Computer Science Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 11/07/2020 were confirmed.

Agenda 2: Discussion and approval on any revision required in the Curriculum of B.Tech, Computer Science Engg.

- The HoD, Computer Science and Engg. gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this , the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2021-22.

- With reference to the suggestions of the members present it was decided no major changes required in the syllabus only the skill related to different subjects need to be mentioned.
- Two changes were suggested
  1. Replacing "OOPs with C++ programming " by "Programming in C"
  2. Renaming the subject "Data structures using C++" by "Data Structures "and all the implementation will be done by C programing language.*(Annexure 1)*

Agenda 3: Inclusion of MCA curriculum

A new curriculum for MCA program is introduced and approved by the Board members.

Agenda 4: Inclusion of courses on life skills and value addition

Various courses offered by University in the areas of life skills and value addition for the students overall improvement and well being are approved by board members. *(Annex 2 and Annex 3)*

The HoD, Department of Computer Science and Engg. extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean, SoET

Dean, Academics

HoD, Computer Science & Engineering

Dean, SOET
Centurion University of Technology & Management
Odisha

Dean Academics
Centurion University of Technology & Management
Odisha

HOD CSE
Centurion Institute of Technology

Annexure 1

List of new courses added

Sl. No	Course Title	Type(Skill/Employability/Entrepreneurship	Credit
1	Programming in C	Skill And Employability	4
2	Data Structures	Skill And Employability	4

Annexure 2

List of Skill courses approved in the Year 2021-22

S No	Course Name	Course Code	Credit
1	3D Game Art	CUTM3121	4
2	Drug Design using Biovia Discovery Studio	CUTM3122	4
3	Opthalmic Lens and spectacle manufacturing Techniques	CUTM3123	4
4	Medical Diagnostic Techniques_	CUTM3124	4
5	Introduction to Aquaponics	CUTM3125	4
6	Polyhouse Automation	CUTM3126	4
7	Development of Processor (Shakti)	CUTM3127	4
8	Spectroscopy	CUTM3128	4
9	Extraction Technologies	CUTM3129	4
10	Gamified DIY kits using Lasers	CUTM3130	4
11	VR Assets Development	CUTM3131	4
12	GIS and Remote Sensing: Applications in Participatory Natural Resource Management	CUTM3133	4
13	GIS and Remote Sensing: Application Development	CUTM3134	4
14	3D Modelling and Printing	CUTM3135	4
15	Brew Master	CUTM3142	4

- List of Value Added Courses offered in the Year 2021-22

S No	Name of the value added courses (with 30 or more contact hours)offered	Course Code	Duration of course
1	Ethical Hacking	CUVA4013	30 Hours
2	Clinical Practice	CUVA4002	30 Hours
3	Financial Literacy	CUVA4038	30 Hours
4	MATLAB	CUVA4035	30 Hours
5	MS Excel Basics	CUVA4010	30 Hours
6	Pharmaceutical Dry-Lab Techniques	CUVA4043	30 Hours
7	Research Methodology and IPR	CUVA4009	30 Hours
8	Steps for Career Plan	CUVA4018	30 Hours
9	TABLEAU	CUVA4014	30 Hours
10	Technical Writing	CUVA4023	30 Hours
11	Waste to Wealth	CUVA4029	30 Hours
12	Web Development	CUVA4012	30 Hours
13	Yoga and Meditation	CUVA4021	30 Hours
14	Health and Lifestyle	CUVA4020	30 Hours
15	Life Skills and Moral Value Education	CUVA4030	30 Hours
16	Ansys	CUVA4044	30 Hours
17	Video Making for Youtubers	CUVA4016	30 Hours

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Engineering & Technology

Department of Computer Science and Engineering

Time: 10.00 a.m.   Date: 09.07.2021

Venue: Online

Board of Studies Meeting

Attendance Sheet

<u>List of Members present</u>

Sl. No.	Name	Organization	Signature
1	Prof. (Dr.) Radhakant Padhi	Honorary Provost, Centurion University of Technology and Management	Attended online
2	Prof. (Dr.) Jharna Majumdar	Prof. of Eminenc, Centurion University of Technology and Management	Attended online
3	Prof. Jagannath Padhi	Director, Centurion University of Technology and Management	Attended online
4	Prof. (Dr.) Prasant Kumar Mohanty	Dean, SoET, Centurion University of Technology and Management	Attended online
5	Prof. (Dr.) Ashish Ranjan Dash	Associate Dean, SoET, Centurion University of Technology and Management	Attended online
6	Prof. (Dr.) Sujata Chakravarty	HOD, CSE, Centurion University of Technology and Management	Attended online
7.	Mr. Pramod Saini	Co-founder of Icalibrator	Attended online
8.	Ms. Aruna Saini	Co-founder of Icalibrator	Attended online
9.	Prof. Uma Valluri	Ex- Prof., IIIT SriCity	Attended online
10.	Mr. Suvendu Kumar Nayak	Assistant Professor, CUTM, BBSR	Attended online
11.	Anshit Ransingh	Alumni(Working as project executive in CUTM)	Attended online
12.	Rhythm Paul	Student, CUTM, BBSR	Attended online

Dean, Academics

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Engineering & Technology

Department of Civil Engineering

Date: 20/07/2021

MINUTES OF BOARD OF STUDIES MEETING held on 20/07/2021

Venue: Virtual Mode

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Civil Engineering was held on 20/07/2021 in virtual mode. The following are the members:

1. Dr Sachikanta Nanda, Associate Professor, SRMIST, Chennai, TN

2. Dr. Shantiswaroop Sahoo, Associate Professor, Dept. of Geology, Utkal University

3 Prof. Prafulla Kumar Panda, Internal Expert

4 Prof. Kamal Kumar Barik, Internal Expert

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Civil Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: **The minutes of the last meeting of the BoS held on 11/07/2020 were confirmed.**

Agenda 2: **Credits distributions, courses and baskets layouts, and new inclusions of Smart Basket (Basket-III) Interdisciplinary domains.**

The HoD, Civil Engg. gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this , the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2021-22.

- The Smart stack to be delivered by people from the industry and/or enabling internal faculty members to deliver the industry aligned courses.
- The strategy of keeping at least twenty percent online delivery of courses in the curriculum was appreciated by everyone.
- It was suggested to have more MOUs with academia and industry for effective rollout.
- Everyone appreciated having the "Job Readiness" course of Basket-II as compulsory across branches and also the delivery plan of the course.

- Present final year student welcomed Job readiness component and domain course content.
- The briefing comprised of credits distributions, courses and baskets layouts, and new inclusions such as the Smart Basket (Basket-III) Interdisciplinary domains etc.
- There is no modification of syllabus of Basket- 4,5
- The domain course should be taught in practice and project mode.

Agenda 3: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being.The same was agreed upon and approved by the Board members.*(Annexure A)*

The HoD, Department of Civil Engg. extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

20 - 07-21

Dean, SoET
Dean, SOET
Centurion University of Technology & Management
Odisha

Dean, Academics
Dean - Academic
Centurion University of Technology & Management
Bhubaneswar, Khurda. Odisha-752050

HoD, Civil
HOD
Dept. of Civil Engineering
Centurion University of
Technology & Management,BBSR

List of Skill courses

Sl. No	Course Title	Credit	(T+P+P)
1	3D Game Art	4	0+3+1
2	Drug Design using Biovia Discovery Studio	4	0+3+1
3	Opthalmic Lens and spectacle manufacturing Techniques	4	0+3+1
4	Medical Diagnostic Techniques	4	0+3+1
5	Introduction to Aquaponics	4	0+3+1
6	Polyhouse Automation	4	0+3+1
7	Development of Processor (Shakti)	4	0+3+1
8	Spectroscopy	4	0+3+1
9	Extraction Technologies	4	0+3+1
10	Gamified DIY kits using Lasers	4	0+3+1
11	VR Assets Development	4	0+3+1
12	GIS and Remote Sensing: Applications in Participatory Natural Resource Management	4	0+3+1
13	GIS and Remote Sensing: Application Development	4	0+3+1

List of value added courses

Sl. No	Course Title	Hrs. of input
1	Natural Resource Management	30
2	Research Methodology and IPR	30
3	Urban Gardens using Hydroponics	30
4	Introduction to Python	30
5	MATLAB	30
6	Waste to Wealth	30
7	Technical Writing	30
8	Organic Farming	30
9	Disaster Management	30
10	Ethical Hacking	30
11	Web Development	30
12	Food & Nutrition	30
13	Clinical Practice	30
14	Innovation Management	30
15	Financial Literacy	30
16	Yoga and Meditation	30
17	Steps for Career Plan	30
18	MS Excel Basics	30
19	Quality Analysis	30
20	Ethical Writing Practice	30
21	Ansys	30
22	Video Making for Youtubers	30

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Engineering & Technology

Department of Civil Engineering

Date: 20/07/2021

Time: 11.00 a.m.

Venue: Virtual Mode

Board of Studies Meeting
Attendance Sheet

Sl. No	Name of the BoS Member(Internal Faculty and External Resource)	Designation	Signature
1	Dr. Sachikanta Nanda	Associate Professor, SRMIST,Chennai, TN	Attended Online
2	Dr. Santiswaroop Sahoo	Associate Professor, Dept. of Geology, Utkal University	Attended Online
3	Dr Kamal Kumar Barik	Professor, Civil Engineering, CUTM	Attended Online
4	Dr Prafulla Ku. Panda	Professor, Civil Engineering, CUTM	Attended Online

Dean, SoET

Dean, SOET
Centurion University of Technology & Management
Odisha

Dean, Academics

Dean Academic
Centurion University of Technology & Management
Bhubaneswar Khurda Odisha-752050

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

<mark>School of Management</mark>

<mark>Date: 15.07.2021</mark>

MINUTES OF BOARD OF STUDIES MEETING held on 09.07.2021

Venue: Online Zoom Platform

Time: 3.00 pm

The Board of Studies (BoS) meeting of School of Management was held on 01.07.2021 at 3.00 p.m. in the online zoom platform. The following members were participated:

1. Dr. Anita Patra, Registrar, CUTM
2. Dr. Prasanta Kumar Mohanty, Dean, Academics, CUTM
3. Dr. Arup Barman, Professor, Department of Business Administration, Assam University, Silchar
4. Mr. Aditya Sapru, Managing Director, Neumck Strategy and Advisory, Bangalore
5. Dr. R. Divakar, Center for Agrarian Studies, NIRD&PR, Hyderabad
6. Mr. Hemant Pamarthy, Independent Consultant and Former Director Ujjivan MicroFinance
7. Dr. Subhendu Mishra, PGP Coordinator, SoM, CUTM
8. Dr. Girija Nandini, PGP Coordinator, SoM, CUTM
9. Dr. Bibhunandini Das, UGP Coordinator, SoM, CUTM
10. Dr. Pramod Kumar Patjoshi, B. Com Program Coordinator, SoM, CUTM
11. Dr. Umakanta Nayak, Dean, SoM, CUTM

The Chairperson, CUTM welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Dean, SoM presented the achievements and improvements of the School in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: **The minutes of the last meeting of the BoS held on 11.07.2020 were confirmed.**

Agenda 2: **Discussion and approval on revision required in the Curriculum of MBA Program**

- The Dean, SoM presented the MBA curriculum based on the feedback and suggestions made by the various stakeholders. Board discussed the curriuculum throughly and approved the existing syllabus without any changes for the academic year 2021-22

Agenda 3: **Discussion and approval on revision required in the Curriculum of MBA – RUDM & ABM Program**

- MBA – RUDM & ABM curriculum was presented based on the feedback and suggestions made by the various stakeholders. Board discussed the curriuculum throughly and approved the existing syllabus without changes for the academic year Year 2021-22.

Agenda 4: **Discussion and approval on revision required in the Curriculum of BBA program**

- BBA syllabus was presented based on the suggestions made by the various stakeholders . The Board accepted and approved the existing syllabus without changes for the academic year Year 2021-22.

Agenda 5: **Discussion and approval on revision required in the Curriculum of B.Com program**

- B.Com syllabus revision was presented based on the suggestions made by the various stakeholders . The Board accepted and approved the following changes to curriculum to be implemented from the Academic Year 2020-21 (*Annexure-I*).
  - New courses were incorporated in baskets after thorough discussion.

Agenda 6: **Inclusion of courses on life skills and value addition**

Various courses were presented to be offered by the University in the areas of life skills and value addition for the overall improvement and well being of students. The same was agreed upon and approved by the Board members. *(Annexure-II)*

The Dean, SoM extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean, SoM
Dean
School of Management
Centurion University, Odisha

Dean, Academics
Dean - Academic
Centurion University of Technology & Management
Bhubaneswar, Khurda, Odisha-752050

List of new courses added in B.Com:

Sl. No	Course Title	Type (Skill/Employability/ Entrepreneurship)	Credit
1	Business organization and Management	Employability & Entrepreneurship	4
2	Goods and Services Tax (GST) and Custom Law	Employability & Entrepreneurship	6
3	Banking and Insurance	Employability & Entrepreneurship	6
4	Advance Managerial Accounting	Employability & Entrepreneurship	6
5	Commercial Banking and ALM	Employability	6
6	Security Analysis and Portfolio Management	Employability & Entrepreneurship	6
7	Project Appraisal and Financing	Employability & Entrepreneurship	6
8	Financial Institutions, Markets and Services	Employability & Entrepreneurship	6
9	Investment Banking and Financial Services	Employability	6
10	Environmental Science	Employability and Skill	4
11	Job Readiness	Employability	6

Skill Courses approved by university

Sl. No.	Course Title	Credit
1	3D Game Art	4
2	Drug Design using Biovia Discovery Studio	4
3	Opthalmic Lens and spectacle manufacturing Techniques	4
4	Medical Diagnostic Techniques_	4
5	Introduction to Aquaponics	4
6	Polyhouse Automation	4
7	Development of Processor (Shakti)	4
8	Spectroscopy	4
9	Extraction Technologies	4
10	Gamified DIY kits using Lasers	4
11	VR Assets Development	4
12	GIS and Remote Sensing: Applications in Participatory Natural Resource Management	4
13	GIS and Remote Sensing: Application Development	4
14	3D Modelling and Printing	4
15	Brew Master	4

Value Added courses approved by university

	Course Title	Credit
1	Ethical Hacking	30 Hours
2	Clinical Practice	30 Hours
3	Financial Literacy	30 Hours
4	MATLAB	30 Hours
5	MS Excel Basics	30 Hours
6	Pharmaceutical Dry-Lab Techniques	30 Hours
7	Research Methodology and IPR	30 Hours
8	Steps for Career Plan	30 Hours
9	TABLEAU	30 Hours
10	Technical Writing	30 Hours
11	Waste to Wealth	30 Hours
12	Web Development	30 Hours
13	Yoga and Meditation	30 Hours
14	Health and Lifestyle	30 Hours
15	Life Skills and Moral Value Education	30 Hours
16	Ansys	30 Hours
17	Video Making for Youtubers	30 Hours

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Management

Date: 09.07.2021

Time: 3.00 p.m.

Venue: Online Zoom Platform

Board of Studies Meeting

Attendance Sheet

Sl.No.	Name of the Member	Designation	Signature
1	Dr. Anita Patra	Registrar, CUTM	Attended Online
2	Dr. Prasanta Kumar Mohanty	Dean, Academics, CUTM	Attended Online
3	Dr. Arup Barman	Professor, Department of Business Administration, Assam University, Silchar	Attended Online
4	Mr. Aditya Sapru	Managing Director, Neumck Strategy and Advisory, Bangalore	Attended Online
5	Dr. R. Divakar	Center for Agrarian Studies, NIRD&PR, Hyderabad	Attended Online
6	Mr. Hemant Pamarthy	Independent Consultant and Former Director Ujjivan MicroFinance	Attended Online
7	Dr. Subhendu Mishra	PGP Coordinator, SoM, CUTM	Attended Online
8	Dr. Girija Nandini	PGP Coordinator, SoM, CUTM	Attended Online
9	Dr. Bibhunandini Das	UGP Coordinator, SoM, CUTM	Attended Online
10	Dr. Pramod Kumar Patjoshi	B. Com Program Coordinator, SoM, CUTM	Attended Online
11	Dr. Umakanta Nayak	Dean, SoM, CUTM	Attended Online

Dean, SoM

Dean
School of Management
Centurion University, Odisha

Dean, Academics
Dean - Academic
Centurion University of Technology & Management
Bhubaneswar, Khurda, Odisha-752050

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

Date: 14.07.2021

MINUTES OF BOARD OF STUDIES MEETING held on 09.07.2021

Venue: Board room, BBSR

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of School of Forensic Sciences was held on 9.07.2021 at 11 a.m. at Board Room, BBSR Campus. The following members were present:

1. Dr. Gurudutta Pattnaik, Principal, SoPLS
2. Dr. Amulyaratna Behera, Assosciate Professor, SoFS & SoPLS
3. Mr. Mahesh Patnaik, Director, HVET
4. Ms. Varsha Singh, Assistant Professor, SoFS
5. Dr. Aruna Kumar Swain, Assistant Director, SFSL Rasulgarh
6. Mr. Gyanranjan Panigrahy, Assistant Professor, BJB Autonomus College

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Dr. Gurudutta Pattnaik, **Principal, SoPLS and SoFS** presented acheivements and improvements of the department in the areas of academics and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: **The minutes of the last meeting of the BoS held on** 11.07.2020 **were confirmed.**
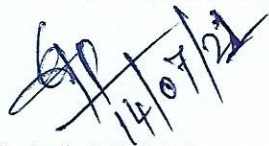
Agenda 2: **Discussion and approval on any revision required in the Curriculum of M.Sc. Forensic Science, M.Sc. Cyber Security & Digital Forensics and B.Sc. Forensic Science.**

- The Principal, SoFS gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders.
- The Board reviewed the syllabus of B.Sc. and M.sc. Programs and decided that no changes were required in the syllabus.

Agenda 3: Inclusion of courses on life skills and value addition

- It was suggested that students take up various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. *(Annexure-I)*

Dr. Gurudutta Pattnaik, Principal, SoFS & SoPLS extended his sincere thanks to all members of the Board. The meeting ended with a vote of thanks to the Chair.

Principal, SoPLS & SoFS

Dean, Academics
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Bhubaneswar, Khurda. Odisha-752050

ANNEXURE-I

- Skill courses approved by BOS and to be offered in 2021-22

Sl. No.	Course Title	Credit
1	3D Game Art	4
2	Drug Design using Biovia Discovery Studio	4
3	Opthalmic Lens and spectacle manufacturing Techniques	4
4	Medical Diagnostic Techniques_	4
5	Introduction to Aquaponics	4
6	Polyhouse Automation	4
7	Development of Processor (Shakti)	4
8	Spectroscopy	4
9	Extraction Technologies	4
10	Gamified DIY kits using Lasers	4
11	VR Assets Development	4
12	GIS and Remote Sensing: Applications in Participatory Natural Resource Management	4
13	GIS and Remote Sensing: Application Development	4
14	3D Modelling and Printing	4
15	Brew Master	4

- Value added courses approved by BOS in 2021-22

Sl. No.	Course title	Duration of course
1	Ethical Hacking	30 Hours
2	Clinical Practice	30 Hours
3	Financial Literacy	30 Hours
4	MATLAB	30 Hours
5	MS Excel Basics	30 Hours
6	Pharmaceutical Dry-Lab Techniques	30 Hours
7	Research Methodology and IPR	30 Hours
8	Steps for Career Plan	30 Hours
9	TABLEAU	30 Hours
10	Technical Writing	30 Hours
11	Waste to Wealth	30 Hours
12	Web Development	30 Hours
13	Yoga and Meditation	30 Hours
14	Health and Lifestyle	30 Hours
15	Life Skills and Moral Value Education	30 Hours
16	Ansys	30 Hours
17	Video Making for Youtubers	30 Hours

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Forensic Sciences

Time: 11.00 a.m.

Date: 09/07/2021

Venue: Virtual Mode

Board of Studies Meeting

Attendance Sheet

Sl. No.	Name of the BOS Member(Internal Faculty and External Resource)	Designation	Signature
1	Dr. Gurudutta Pattnaik	Principal, SoPLS & SoFS, CUTM	Attended Online
2	Mr. Mahesh Patnaik	Director, SoPLS and SoFS, CUTM	Attended Online
3	Mr. Gyanaranjan Panigrahy	Assistant Professor, BJB autonomous college.	Attended Online
4	Dr. Amulyaratna Behera	Assosciate Professor, SoFS & SoPLS	Attended Online
5	Dr. Aruna Kumar Swain	Assistant Director, SFSL Rasulgarh	Attended Online
6	Ms. Varsha Singh	Assistant Professor, School of Forensic Sciences	Attended Online

Principal, SoPLS and SoFS

Dean, Academics
Dean - Academic
Centurion University of Technology & Management
Bhubaneswar, Khurda, Odisha-752050

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Agricultural and Bio-Engineering

Department of Agricultural Engineering

Date: 11/07/2020

MINUTES OF BOARD OF STUDIES MEETING held on 11/07/2020

Virtual Mode

Time: 12.00 p.m.

The Board of Studies (BoS) meeting of Department of Agricultural Engineering was held on 11/07/2020 at 12 p.m. in online mode (due to the continuing Covid-19 Pandemic). The following members are present during the meeting.

1. Dr. Prasanta Kumar Mohanty, Dean Academics, CUTM
2. Dr. Sivala Kumar, Dean SoABE, CUTM
3. Dr. Khalid Khan, Retd Dean, OUAT
4. Mr. Bharat Agrawal, CEO, ABS KRISHI UDYOG, Odisha
5. Dr. Gitanjali Behera, HOD, Agricultural Engineering, CUTM
6. Dr. Prasanta Kumar Choudhury, Head Dairy Technology, SoABE, CUTM
7. Dr. Bhisma Narayan Rath, Head Phytopharmaceuticals, SoABE, CUTM
8. Dr. S. P. Nanda, Dean Administration, MSSSoA, CUTM
9. Dr. Devendra Reddy, Dean Academics, MSSSoA, CUTM

Dean SoABE have given a presentation on course structure of Agriculture Engineering. There was a thoroughly discussion on the syllabus of Agricultural Engineering and the following feedback was suggested by the Experts.

The following agenda items were taken up subsequently:

Agenda 1: **The minutes of the last meeting of the BoS held on 22/06/2019 were confirmed.**

Agenda 2: Revision of Curriculum for the programme B.Tech AG

- It was discussed and decided to follow the CBCS structure of 5 Basket systems of Syllabus of School of Engineering & Technology in the B. Tech Agriculture programme.
- Dr. Khalid Khan: A lot of emphasis has been given to Foundation course which will help the foundation knowledge building of Agricultural Engineering students. Now Agricultural engineering is going to play a vital role for post-COVID scenario. The curriculum designed by the Centurion University will surely help students for preparing for the future. The new syllabus contains all of core courses and foundation courses. One core agricultural engineering course is missing in Basket-4.B that is Post-harvest engineering of cereal, pulses and oil seeds which should be a compulsory course for students doing graduation in agricultural Engineering. Other courses like Engg. Properties of Agricultural Produce, Agricultural Structures & Environmental Control which involves so many components will be difficult to complete the course within 1-0-1 credit hour. Or else, the course has

been designed as per academic and industry's needs. Dean SoABE clarified the experts that the Course titled Post-harvest engineering of cereal, pulses and oil seeds is included in the domain course. Also, the courses like Engg. Properties of Agricultural Produce, Agricultural Structures & Environmental Control can be completed in 1-0-1 credit as the session plan has been designed in courseware as per the time allotment and will be justify all components present in the syllabus.

- Industry Expert: The department have taken up everything in the course syllabus to graduate a best student from the University. The student should be exposed to more field visit and industrial visit, so that the outcome will be best. Dean SoABE explained that we have already taking our students to field and industry visit to have a better practical understanding of the subjects.

Agenda 3: **Discussion on modification of syllabus of Basket- 4, 5**

The Board approved the changes suggested in the core courses. List of new courses is given in Annexure A and existing courses where syllabus was changed in (*Annexure B*)

Agenda 4: **Inclusion of courses on life skills and value addition**

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being.The same was agreed upon and approved by the Board members.(*Annexure C*)

The Dean, SoABE, extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean, SoABE

Dean, Academics
Dean - Academic
Centurion University of Technology & Management
Bhubaneswar, Khurda, Odisha-752050

HoD, Agricultural Engineering

List of new courses added

Sl. No	Course Title	Type(Skill/Employability/Entrepreneurship	Credit
1	Differential Equations and Laplace Transformation	Skill	3
2	Linear Algebra & Vector Calculus	Skill	3
3	Complex Analysis, Numerical Methods	Skill	3
4	Discrete Mathematics	Skill	3
5	Probability & Statistics	Skill	3
6	Mechanics for Engineers	Skill	3
7	Optics and Optical Fibres	Skill	3
8	Applied Analytical Chemistry	Skill	3
9	Applied Engineering Materials	Skill	3
10	Environmental Studies	Entrepreneurship	2
11	Optimisation Techniques	Employability	2
12	Engineering Economics and Costing	Entrepreneurship	3
13	Project Management	Entrepreneurship	3
14	Gender, Human Rights and Ethics	Employability	3
15	Climate Change, Sustainability and Organisation	Employability	3
16	Job readiness	Skill	6
17	Industrial IOT and Automation	Employability	6
18	Data Analysis and Visualisation using Python	Entrepreneurship	4
19	Machine Learning using Python	Entrepreneurship	4
20	Robotic automation with ROS and C++	Employability	4
21	Design Thinking	Employability	2
22	System Integration with DYMOLA	Employability	2
23	Smart Engineering Project (G2M)	Employability	3
24	Theory of failure analysis using FPA	Employability	4
25	Computer Aided Engineering	Employability	3
26	Theory of Machine	Employability	3
27	Heat Transfer with FVM	Entrepreneurship	3
28	Fluid Mechanics with FVM	Skill	3
29	Hydraulic machinery	Skill	2
30	Thermodynamics	Employability and skill development	3
31	Electrical Machines Operation and Control	Employability and skill development	4
32	Digital Measurement & Instrumentation	Employability	3

33	Optimisation Techniques	Skill	2
34	Geotechnical Engg.	Employability	3
35	Design of structures	Skill	4
36	Digital Signal & Image Processing	Skill	3
37	Quantity Estimation and Costing	Employability	3
38	Sensor, Actuators and Robot Operating Systems	Skill	4
39	Farm Machinery Design	Employability	3
40	Piloting a Drone	Employability	3
41	PLM using Dassault Tools	Skill	3
42	Testing of Farm Machinery	Employability	3
43	Project and internship	Skill	10
44	Rainwater Harvesting and Artificial Recharge	Employability	3
45	Integrated watershed management	Employability	3
46	Sustainable Watershed	Employability	3
47	R programming in watershed hydrology	Skill	3
48	Modelling and Simulation of Watershed Processes	Employability	3
49	Geo-spatial application in watershed management	Employability	3
50	Project and internship	Employability	10
51	Processing Technology of Cereals and Millets	Employability	3
52	Processing Technology of Legumes and Oilseeds	Skill	3
53	Processing Technology of Fruits, Vegetables, Spices and Condiments	Skill	3
54	Product Development and Packaging Technologies	Skill	3
55	Food Standards and Regulations and HACCP Systems	Employability	3
56	Sensory Evaluation and Nutritional Labelling of Foods	Skill	3
57	AELP Linked Project and Internship	Employability	11

List of existing courses where syllabus was changed

Basket/ Semester	Name of Course	No. of Modules/Topics revised	Revised Modules/Topics (details)
1	Post-Harvest Engineering of Horticultural Crops	1	Credits modified
2	Principles of Agronomy	1	Aligned with Fundamentals of Agronomy
3	Principles of Soil Science	1	Aligned with Fundamentals of Soil Science
4	Principles of Horticultural Crops and Plant Protection	1	Aligned with Fundamentals of Horticulture
5	Soil and Water Conservation Engineering and Water Harvesting and Soil Conservation Structures	2	The both course was merged into Soil-Water Conservation Engineering and Structure, the credit was modified to 4 credits

List of Skill courses

Sl. No	Course Title	Credit	(T+P+P)
1	Introduction to Quantum Computing	4	0+3+1
2	Organic Farming	4	0+3+1
3	Mushroom Farming	4	0+3+1
4	Hydroponics Technology	4	0+3+1
5	Poultry Farming	4	0+3+1
6	Dairy Farming	4	0+3+1
7	Vermi composting Farming	4	0+3+1
8	Transformer Manufacturing, Repairing and Maintenance	4	0+3+1
9	Electrical Installation	4	0+3+1
10	Repair and Maintenance of Home Appliances	4	0+3+1
11	Refrigeration and air conditioning	4	0+3+1
12	Super critical Co2 plant operation	4	0+3+1
13	Business Plan Preparation	4	0+3+1
14	Composite fabrication practice	4	0+3+1
15	Powder coating practice	4	0+3+1
16	Farm appliances operation	4	0+3+1
17	Bio fertilizers preparation	4	0+3+1
18	PCB designing & fabrication	4	0+3+1
19	Introduction to Block Chain Technology	4	0+3+1
20	Introduction to Nutraceuticals	4	0+3+1
21	Introduction to NLP	4	0+3+1
22	Introduction to Computational Biology	4	0+3+1
23	Product Life Cycle Management through Gate process	4	0+3+1
24	New material development with Biovia	4	0+3+1
25	Spectral image processing using Python	4	0+3+1
26	Satellite data processing	4	0+3+1
27	Working with Graphene and carbon fibre	4	0+3+1
28	Adobe Tools and Illustrations	4	0+3+1
29	Digital Painting	4	0+3+1
30	Computer Installation and Maintenance	4	0+3+1

List of Domain courses

Group A: Agriculture/ Agri Engineering/Phyto pharma/ Dairy tech/ fisheries/ biological sciences			
Group B: All other engineering/physical and mathematical science/vocational or skills			
Group C: Pharmacy and allied Health			
Group D: Management & media and communication			

Sl. No.	Name of the Domain	Credit	Category	Year of introduction
1	Advance Video Processing, Computer Vision and Machine Learning	30	A/B/D	2020
2	Aerial Survey and Remote Sensing Applications	18	A/B	2020
3	Agri Business Management	23	A/B/D	2020
4	Architectural and Structural Design	20	A/B	2020
5	Business Analytics	21	A/B/D	2020
6	Chip Design and Fabrication using VLSI	18	B	2020
7	Commodity and Food Storage	29	A/B/D	2020
8	Communication Systems	18	B	2020
9	Composite Design and Manufacturing	24	A/B	2020
10	Computational Fluid Dynamics	20	A/B	2020
11	Cyber Security	24	B	2020
12	Dairy Processing and Development	28	A/B	2020
13	Fish Processing Technology	29	A/B	2020
14	Food Processing	29	A/B/D	2020
15	Gaming and Immersive Learning (AR & VR)	20	A/B/D	2020
16	Go-To-Market	22	A/B/D	2020
17	Health Care Assistancy	25	A/B	2020
18	Manufacturing Execution System	18	B	2020
19	Nutraceuticals	29	A/C	2020
20	Protected Horticulture	29	A/B	2020

21	Renewable Energy Applications	22	A/B	2020
22	Smart Agriculture	29	A/B	2020
23	Smart Farm Machinery	28	A/B	2020
24	Soil and Water Conservation through Watershed	28	A/B	2020

List of value added courses

Sl. No	Course Title	Hrs. of input
1	Natural Resource Management	30
2	Research Methodology and IPR	30
3	Urban Gardens using Hydroponics	30
4	Introduction to Python	30
5	MATLAB	30
6	Waste to Wealth	30
7	Technical Writing	30
8	Organic Farming	30
9	Disaster Management	30
10	Ethical Hacking	30
11	Web Development	30
12	Food & Nutrition	30
13	Clinical Practice	30
14	Innovation Management	30
15	Financial Literacy	30
16	Yoga and Meditation	30
17	Steps for Career Plan	30
18	MS Excel Basics	30
19	Quality Analysis	30
20	Ethical Writing Practice	30
21	Ansys	30
22	Video Making for Youtubers	30

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Agricultural & Bio-Engineering

Department of Agricultural Engineering

Time: 12.00 p.m.   **Date: 11/07/2020**

Venue: Board Room, CUTM, Bhubaneswar

Board of Studies Meeting
Attendance Sheet

Sl. No.	Name of the BOS Member(Internal Faculty and External Resource)	Organization	Signature
1	Dr. Supriya Pattanaik	CUTM	Attended Online
2	Dr. Anita Patra	CUTM	Attended Online
3	Dr. P.K. Mohanty	Dean, Academics	Attended Online
4	Dr. Sivala Kumar	Dean, SOABE	Attended Online
5	Dr. Khalid Khan	Retd. Dean, CAET, OUAT	Attended Online
6	Mr Bharat Agarwal	CEO, ABS KRISHI UDYOG, Odisha	Attended Online
7	Dr. Gitanjali Behera	CUTM	Attended Online
8	Dr. Prasant Kumar Choudhury	CUTM	Attended Online
9	Dr. SP Nanda	CUTM	Attended Online
10	Dr. Devendra Reddy	CUTM	Attended Online
11	Mr. Bhisma Narayan Rath	CUTM	Attended Online

Dean, SoABE

Dean, Academics
Dean - Academic
Centurion University of Technology & Management
Bhubaneswar, Khurda, Odisha-752050

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Applied Sciences

<mark>Department of Physics</mark>

<mark>Date: 11.07.2020</mark>

MINUTES OF BOARD OF STUDIES MEETING held on 11.07.2020

Venue: Conducted in online mode

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Physics was conducted in online mode on **11.07.2020** at 11 a.m. The following are the board members:

1. Dr. P. K. Jain, Scientist -G, Center Head for Carbon materials division of ARCI, HYD, External expert
2. Dr. J K Rath, Director, Mechem Private Ltd, Bhubaneswar, External expert
3. Dr. Debadhyana Behera, Dept. of Physics, Ravenshaw University, External expert.
4. Prof. Dipankar Bhattacharyay, Dean SoAS.
5. Prof. Mohammed Siddique, Associate Dean- SoAS
6. Dr. Tapan Dash, HoD, Department of Physics, CUTM BBSR
7. Dr. Subrata Sarangi, Professor, Dept of Physics, UCTM, BBSR
8. Ms. Sushree Subhadarsi Bhole, MSc Alumni
9. Few M.Sc and B.Sc students of CUTM.

At the outset, Dean SoAS welcomed the invited (external) experts from industry and academia and addressed all the participants. HE outlined the broad contours of academic developments with respect to emerging research and skill integration areas and pointed out how the University has aligned its curricula keeping in view these developments. He also outlined how the University examination system is being reformed aligning it with the current trends and evolving methods of pedagogy and academic delivery. The steps being taken to execute all academic programs of the University in Covid-19 conditions were also pointed out by him.

The following agenda items were taken up subsequently:

Agenda 1: **The minutes of the last meeting of the BoS held on 30.06.2019 were confirmed.**

Agenda 2: **Revision of Curriculum for the programme B.Sc. Physics and M.Sc. Physics.**

- Based on the feedback received on curriculum outlining the suggestions made by the various stakeholders, it was suggested that the revised curriculum for B.Sc. and M.Sc. programmes is to be implemented from the academic year 2020-21.

- The detailed course outline and Syllabus of Department of Physics was presented by Prof. Mohammed Siddique, Associate Dean, SoAS.
- The external experts (industrial and academic) appreciated the general approach of the University dividing the curriculum into Core, Domain and Skill Courses and noted with satisfaction, the syllabi being upto-date and with due stress on practice and skill.
- They also noted with satisfaction that the syllabi of all BSc core courses was aligned to the UGC prescribed curriculum. It was also suggested that a BSc level, the foundation (or core) courses with basic concepts should be taught well including appropriate proportions of theory, practice, projects. Advanced topics like Graphene, Nano-materials, etc may be included as electives and at introductory level only.
- The experts also appreciated the advanced and focused nature of the MSc Core courses. Inclusion of advanced Materials Science topics such as Graphene, Composite Materials etc. was highly appreciated. Inclusion of Internship components into the MSc curriculum was also strongly suggested.
- The Board of study members recommended and approved the syllabus for both B.Sc. and M.Sc. programs *(Annexure-1)* to be taught in the upcoming semesters.

Agenda 3: : **Regarding domain courses**

- It was decided that students will take the domain courses offered by the University. Out of the different category of Domain courses Group B category is for Physics students. *(Annexure-2)*

Agenda 4: : **Regarding skills and value added courses**

It was suggested that students will take the skill and value added courses offered by the University. The same was approved by the Board members. *(Annexure-3 &4)*

The HoD, Department of Physics. extended his sincere thanks to all members of the Board.

The meeting was adjourned with Vote of Thanks by the Registrar Prof. Anita Patra. She thanked all the external members present in the meeting for sparing their valuable time from their busy schedule and make it successful.

Dean, Academics

Dean - Academic
Centurion University of Technology & Management
Bhubaneswar, Khurda, Odisha-752050

Annexure-1

List of new courses approved

B.Sc. Physics

Sl. No	Course Title	Type(Skill/Employability /Entrepreneurship)	Credit
1	Mathematical Physics-I	Skill	6
2	Mechanics	Skill	6
3	Thermal Physics	Employability & Skill	6
4	Waves and Optics	Employability & Skill	6
5	Mathematical Physics-II	Skill	6
6	Electricity and Magnetism	Employability & Skill	6
7	Analog System and Application	Employability & Skill	6
8	Mathematical Physics-III	Skill	6
9	Elements of Modern Physics	Employability & Skill	6
10	Digital Systems and Applications	Employability & Skill	6
11	Quantum Mechanics and Applications	Employability & Skill	6
12	Solid State Physics	Employability & Skill	6
13	Electromagnetic Theory	Skill	6
14	Statistical Mechanics	Skill	6

M.Sc. Physics

Sl. No	Course Title	Type(Skill/Employability/Entrepreneurship)	Credit
1	Energy storage materials	Employability	4
2	Bio and bimimetic nano materials	Employability	4
3	Photovoltaic technology and nanocatalysts	Employability	4
4	Advanced characterization techniques	Skill	4
5	Smart and electronic materials	Skill	4
6	Corrosion and advanced coating application	Employability	4
7	Synthesis and application of nano composites	Skill & Employability	4
8	Material behavior of nanostructures	Skill	4
9	Emerging materials	Employability	4
10	Synthesis routes of nanomaterials	Skill	4
11	Computational materials science	Skill	4
12	Plasma technology	Employability	4
13	Essentials of nanomaterials	Skill	4
14	Advanced quantum mechanics	Skill	4
15	Physics of solids and semiconductors	Skill	4
16	Laser technology	Skill	4

Annexure-2

Domain Courses approved by the University 2020-21.

	Group A: Agriculture/ Agri Engineering/Phyto pharma/ Dairy tech/ fisheries/ biological sciences			
	Group B: All other engineering/physical and mathematical science/vocational or skills			
	Group C: Pharmacy and allied Health			
	Group D: Management & media and communication			
Sl. No.	Name of the Domain	Credit	Category	Year of introduction
1	Advance Video Processing, Computer Vision and Machine Learning	30	A/B/D	2020
2	Aerial Survey and Remote Sensing Applications	18	A/B	2020
3	Agri Business Management	23	A/B/D	2020
4	Architectural and Structural Design	20	A/B	2020
5	Business Analytics	21	A/B/D	2020
6	Chip Design and Fabrication using VLSI	18	B	2020
7	Commodity and Food Storage	29	A/B/D	2020
8	Communication Systems	18	B	2020
9	Composite Design and Manufacturing	24	A/B	2020
10	Computational Fluid Dynamics	20	A/B	2020
11	Cyber Security	24	B	2020
12	Dairy Processing and Development	28	A/B	2020
13	Fish Processing Technology	29	A/B	2020
14	Food Processing	29	A/B/D	2020
15	Gaming and Immersive Learning (AR & VR)	20	A/B/D	2020
16	Go-To-Market	22	A/B/D	2020
17	Health Care Assistancy	25	A/B	2020
18	Manufacturing Execution System	18	B	2020
19	Nutraceuticals	29	A/C	2020
20	Protected Horticulture	29	A/B	2020
21	Renewable Energy Applications	22	A/B	2020
22	Smart Agriculture	29	A/B	2020
23	Smart Farm Machinery	28	A/B	2020
24	Soil and Water Conservation through Watershed	28	A/B	2020

Annexure-3

Skill Courses approved by the university in 2020-21.

Sl. No.	Course Title	Credit
1	Introduction to Quantum Computing	4
2	Organic Farming	4
3	Mushroom Farming	4
4	Hydroponics Technology	4
5	Poultry Farming	4
6	Dairy Farming	4
7	Vermicomposting Farming	4
8	Transformer Manufacturing, Repairing and Maintenance	4
9	Electrical Installation	4
10	Repair and Maintenance of Home Appliances	4
11	Refrigeration and air conditioning	4
12	Super critical CO_2 plant operation	4
13	Business Plan Preparation	4
14	Composite fabrication practice	4
15	Powder coating practice	4
16	Farm appliances operation	4
17	Bio fertilizers preparation	4
18	PCB designing & fabrication	4
19	Introduction to Block Chain Technology	4
20	Introduction to Nutraceuticals	4
21	Introduction to NLP	4
22	Introduction to Computational Biology	4
23	Product Life Cycle Management through Gate process	4
24	New material development with Biovia	4
25	Spectral image processing using Python	4
26	Satellite data processing	4
27	Working with Graphene and carbon fibre	4
28	Adobe Tools and Illustrations	4
29	Digital Painting	4
30	Computer Installation and Maintenance	4

Annexure-4

Value Added courses offered by the university in 2020-21.

	Course Title	Credit
1	Natural Resource Management	30 Hours
2	Research Methodology and IPR	30 Hours
3	Urban Gardens using Hydroponics	30 Hours

4	Introduction to Python	30 Hours
5	MATLAB	30 Hours
6	Waste to Wealth	30 Hours
7	Technical Writing	30 Hours
8	Organic Farming	30 Hours
9	Disaster Management	30 Hours
10	Ethical Hacking	30 Hours
11	Web Development	30 Hours
12	Food & Nutrition	30 Hours
13	Clinical Practice	30 Hours
14	Innovation Management	30 Hours
15	Financial Literacy	30 Hours
16	Yoga and Meditation	30 Hours
17	Steps for Career Plan	30 Hours
18	MS Excel Basics	30 Hours
19	Quality Analysis	30 Hours
20	Ethical Writing Practice	30 Hours
21	Ansys	30 Hours
22	Video Making for Youtubers	30 Hours

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Applied Sciences

Department of Physics

Time: 11.00 a.m.   **Date: 11.07.2020**

Venue: Conducted in online mode

Board of Studies Meeting

Attendance Sheet

Sl. No	Name of the Member	Designation	Signature

1	Dr. P. K. Jain	Scientist -G, Center Head for Carbon materials division of ARCI, HYD	Attended Online
2	Dr. J K Rath	Director, Mechem Private Ltd, Bhubaneswar	Attended Online
3	Dr. Debadhyana Behera	Dept. of Physics, Revenshaw University	Attended Online
4	Prof. Dipankar Bhattacharyay	Dean – SoAS, Centurion University of Technology and Management	Attended Online
5	Prof. Mohammed Siddique	Associate Dean- SoAS, Centurion University of Technology and Management	Attended Online
6	Dr. Tapan Dash	HoD- Dept of Physics-SoAS,Centurion University of Technology and Management	Attended Online
7	Dr. Subrata Sarangi	Professor, Dept of Physics-SoAS,Centurion University of Technology and Management	Attended Online
8	Sushree Subhadarsi Bhole	MSc Alumnus, Centurion University of Technology and Management	Attended Online
9	Sarita Nayak	MSc Alumnus, Centurion University of Technology and Management	Attended Online
10	Debabrata Mishra	MSc student (Continuing) Centurion University of Technology and Management	Attended Online
11	Nishikanta Mishra	MSc student (Continuing) Centurion University of Technology and Management	Attended Online
12	BapuramVenkateswar Samantaray	MSc student (Continuing) Centurion University of Technology and Management	Attended Online
13	Sulipta Das	MSc Alumnus, Centurion University of Technology and Management	Attended Online
14	Sanjay Kumar Harichandan	MSc Alumnus, Centurion University of Technology and Management	Attended Online
15	Priyabadini Biswal	MSc Alumnus, Centurion University of Technology and Management	Attended Online
16	Alisha Dalai	MSc Alumnus, Centurion University of Technology and Management	Attended Online
17	Monalisa B D Subham	BSc Alumnus, Centurion University of Technology and Management	Attended Online
18	Susmita Rani Pradhan	BSc Student (Continuing) Centurion University of Technology and Management	Attended Online
19	Jyotir Jagadananda Sahoo	BSc student (Continuing) Centurion University of Technology and Management	Attended Online
20	Sadia Masih	BSc Alumnus, Centurion University of Technology and Management	Attended Online
21	Saumya Sarthak Nayak	BSc Alumnus, Centurion University of Technology and Management	Attended Online
22	Ayush Kumar Sahu	BSc student (Continuing) Centurion University of Technology and Management	Attended Online
23	Soumya Sonali kar	BSc student (Continuing)	Attended Online

		Centurion University of Technology and Management	
24	Amit Kumar Pradhan	BSc student (Continuing) Centurion University of Technology and Management	Attended Online

Dean, Academics

Dean - Academic
Centurion University of Technology & Management
Bhubaneswar, Khurda. Odisha-752050

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Engineering & Technology

Department of Electrical & Electronics Engineering

Date: 11.07.2020

MINUTES OF BOARD OF STUDIES MEETING held on 11.07.2020

Venue: Virtual Mode

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of EEE was held on 11.07.2020 at 11 a.m. in the Room No.-104 , CUTM Bhubaneswar. The following are the Board members:

1. Prof. (Dr.) Radhakant Padhi, Honorary Provost, CUTM
2. Prof. (Dr.) Jharna Majumdar, Prof. of Eminence, CUTM
3. Prof. Jagannath Padhi, Director, CUTM
4. Prof. (Dr.) Prasant Kumar Mohanty, Dean, SoET, CUTM
5. Prof. (Dr.) Ashish Ranjan Dash , Associate Dean, CUTM
6. Prof. (Dr.) Sudhansu Kumar Samal, HOD, EEE, CUTM
7. Prof. (Dr.) P. K. Hota, Professor, EE, VSSUT, Burla
8. Mr. P. K. Pradhan, Ex- Director (Commercial), GRIDCO; Ex-CEO, WESCO

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of EEE presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: **The minutes of the last meeting of the BoS held on 22.06.2019 were confirmed.**

Agenda 2: **Discussion and approval on any revision required in the Curriculum of B.Tech, EEE.**

The HoD, EEE gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this , the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2018-19.

1. Renaming of subjects from all the baskets were done as per industry demand
2. All the course contents were changed by giving more importance to software simulations which are useful for doing research in higher education.
3. Faculties were asked to complete various online courses offered from NPTEL, UDEMY, Coursera etc. to enhance their knowledge to teach the new restructured courses.
4. The Board approved the updation of the courses important from higher studies point of view and replacement of contents of open basket with new courses with greater practice component. List of new courses added in *Annexure A.*
5. The Board approved the changes suggested in the Distributed Generation & Microgrid, Power System Protection as per the latest Software and technology being used by the industry. List of existing courses where syllabus was revised in *(Annexure B)*

Discussion and approval on any revision required in the Curriculum of M.Tech, Power System & Control.

➢ As there was a complete revision of the syllabus of M.Tech program in Power system & control in previous academic session, No change was suggested.

Agenda 3: **Inclusion of courses on life skills and value addition**

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members.*(Annexure C)*

Agenda 4:

Basket 3 syllabus got completely changed as per present industrial requirement. More emphasis was given on practice and project and less importance on theory content. All circuit branch faculties were asked to teach these advanced subjects.

The HoD, Department of EEE extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean, SoET
Dean, SOET
Centurion University of Technology & Management
Odisha

Dean, Academics
Dean - Academic
Centurion University of Technology & Management
Bhubaneswar, Khurda, Odisha-752050

HoD, EEE Department

List of new courses added

Sl. No.	Course Title	Type(Skill/Employability/Entrepreneurship)	Credit
1	Electromagnetic Field Theory and Transmission Line	Skill development	3
2	Network Analysis	Employability	3
3	Energy Production & Transmission	Skill development	3
4	Substation Switch gear & Protection	Skill development	4
5	System Modeling and Control	Skill development	4
6	Electrical Machines Operation and Control	Skill development	4
7	Industrial Power Electronics	Skill development	4
8	Digital Measurement and Instrumentation	Skill development	3
9	Basic Electrical Engineering	Skill development	2
10	Introduction to Industrial Automation	Skill development	1
11	Advanced Programming & Control Blocks of PLC	Skill development	3

12	Control & Signal Wiring of PLC	Skill development	2
13	SCADA based advanced features	Skill development	2
14	SCADA & PLC based sequential control	Skill development	1
15	Human Machine Interface	Skill development	3
16	OPC server base data fetching & control	Skill development	2
17	Project	Skill development	6
18	Internship	Skill development	4
19	Introduction, Power Scenario, Power Quality & Fault clearance	Skill development	2
20	Switchyard & substation Networks	Skill development	3
21	Protection scheme & Switchgear	Skill development	3
22	Cable system & Testing	Skill development	3
23	Power Markets	Employability	1
24	Grid Safety	Skill development	2
25	Transformer Manufacturing	Skill development	6
26	Project	Skill development	4

27	Materials for Renewable Energy applications	Skill development	2
28	Renewable Energy Technology for Industrial Process	Skill development	3
29	Micro-grid Design & Implementation	Skill development	2
30	Hybrid Renewable Energy Systems	Skill development	3
31	Solar Off-grid Entrepreneur	Skill development	2
32	Project	Skill development	6
33	Internship	Skill development	4
34	Soft Computing Techniques - I	Skill development	2
35	Electrical Circuit Drawing (Using Auto CAD)	Skill development	2
36	Linear Integrated Circuits & Application	Employability	3
37	Micro Controllers for Industrial Application (PIC)	Skill development	4
38	Power Quality and FACTS	Skill development	3
39	Soft Computing Techniques - II	Skill development	3
40	Basic Electrical Maintenance	Skill development	3
41	Automotive Electrician	Skill development	3
42	Advanced Power Electronics	Skill development	5

43	Electrical Drives	Skill development	5
44	Advance Control System	Skill development	5

List of existing courses where syllabus was changed

Basket/ Semester	Name of Course	No. of Modules/Topics revised	Revised Modules/Topics (details)
IV	Network Analysis	.	Practice • Incidence Matrix Formulation • Tie-set Matrix Formulation • Cut-set Matrix Formulation • Analysis of transient characteristics using Matlab • AC and DC transient response analysis for RL,RC and RLC circuits • Design and frequency response analysis of Low Pass filter • Design and frequency response analysis of High Pass filter • Design and frequency response analysis of Band Pass filter • Design and frequency response analysis of Band elimination filter • Fourier series expansion of Square wave • Fourier series expansion of Sine wave
	Energy Production & Transmission	7	Practice: 1. Schematic Layout design Thermal Plant using AutoCad 2. Schematic Layout design Nuclear Plant using AutoCad 3. Schematic Layout design of Hydro Plant using AutoCad 4. Preparation of Load calculator using MATLAB 5. Designing of transmission line parameters using MATLAB 6. Designing of Insulators and calculation of voltages using MATLAB 7. Designing of Cables
	Substation Switch gear & Protection		Practice: 1. Layout Designof 220KV substation using MATLAB 2. Layout Design of 400KV & 750KV substation using MATLAB as per IEEE standards 3. Maintenance tests of CT & PT of substation as per manufacturers Hand book 4. Maintenance tests of Lightening Arrestor & Circuit Breaker of substation as per manufacturers Hand book 5. Maintenance tests of transformer as per

			manufacturers Hand book 6. Design of Protection Scheme using MATLAB 7. Design & simulation of Circuit breaker using 3DS Tools Project: 1. Analysis of critically operating power system using MATLAB/DYMOLA
	System Modeling and Control	7	Practice: Hardware/MATLAB 1. Study of Temperature control system 2. Using MATLAB, find the poles, zeros, gain and draw the pole-zero plot of the transfer function. 3. Using MATLAB, find the transfer function from given block diagram. 4. Standard Test Signals 5. Time response of first order systems to unit step and unit ramp inputs 6. Time Response of Second order systems to unit step input 7. Using MATLAB, determine the steady state error of the given system. 8. Construct the root locus for 2nd&3rd order system and analyze its stability (Gain) 9. Construct the bode plot for 2nd and 3rdorder system and analyze its stability (PM & GM) 10. Design of P,PD, PI and PID Controller for 2ndor 3rdorder system
	Electrical Machines Operation and Control	1	Theory Stepper motor drive, basic principles involved in stepper motor control, stepper motor specification, operation and commercial driver chips and packages, Brushless DC Motors, Reluctance Motor, Hysteresis Motor Application in Medical, Automobile, Civil, Electrical etc Practice: 4) Motor Voltage and Current Measurement. 5) ON-Load Tap changer

		7	Simulation of V-I characteristics of power diode & power transistor.
			Simulation of V-I characteristics of MOSFET& IGBT.
			Simulation of V-I characteristics of silicon-controlled rectifier.
			Simulation of R and RC triggering.
			Simulation of UJT triggering
			6. Simulation of single phase half-wave and full-wave diode rectifier using R & L load.
			7. Simulation of single phase fully controlled converter using R & L load.
			8. Simulation of single phase semi converter using R-L load.
			9. Simulation of 3-phase semi converter with R, R-L and dc motor load with/without freewheeling diode.
	Industrial Power Electronics		10. Simulation of 3-phase bridge converter with R, R-L and dc motor load with/without freewheeling diode.
			11. Simulation of buck converter.
			12. Simulation of boost converter.
			13. Simulation of buck boost converter.
			14. Simulation of single-phase inverter&three phase inverter.
			15. Simulation of single phase AC voltage controller&cyclo-converter.
			16.Simulation of converter fed dc drives (Wind Turbines).
			17. Simulation ofchopper fed dcdrives (PV Systems).
			18. Simulation of induction motor drives (e-Vehicle).
			19.Simulation of railway electrification system using Dymola
			Project

			500 VA Sine wave Inverter
			Industrial Battery Charger using SCR
			Precision Illumination control of Lamp
			Dual Converter using Thyristors
Digital Measurement and Instrumentation		7	Module I Philosophy of digital measurements Module II Digital frequency measurement techniques Module III

			Digitally Programmable Circuits Module IV Digital to Analog Converters Module V Digital Voltage Measurement Techniques Module VI Digital Instrument Module VII: Signal Generator, Analyzersand Oscilloscopes
	Basic Electrical Engineering	7	Design and Analysis of Basic electrical circuits using Dymola. Plotting the V-I Characteristics of Incandescent lamp using Dymola. Verification of KCL and KVL in series and parallel circuits using Dymola. Analysis of Thevenin's and Norton's theorem. 3. Verification of Thevenin's and Norton's theorem using Dymola. Solenoids and field coils. Application of solenoids in different circuits in Automobiles and in electrical circuit. Study of Transformers, Linear Transformer Model, Ideal Transformer Model, No-load Loss and Load-loss Calculation. Calculation of current, voltage, power & power factor of series RLC circuit excited by 1-Ø A.C Supply using Dymola. Measurement of power and power factor in a 3-Ø AC circuit by (one, two and three) wattmeter using Dymola.
V	SCADA based advanced features	1	SCADA BASED ADVANCED FEATURES 4.1 Alarms 4.2 Trends, Data base connectivity & Report generation 4.3 Recipe management 4.4 Security Practice: P4.1 - Data fetching and representing on graph and excel P4.2 - Advanced controlling of industry by using SCADA
	SCADA & PLC based sequential control	1	SCADA & PLC BASED SEQUENTIAL CONTROL 5.1 Script 5.2 Networking 5.3 Device connectivity.

			Practice: P5.1 Script P5.2 Networking P5.3 Device connectivity
	OPC server base data fetching & control	1	OPC SERVER BASE DATA FETCHING & CONTROL 7.1 Study of Open Platform Communications 7.2 OPC to control PLC, SCADA. 7.3 OPC based different protocol concept. 7.4 Data handling using OPC. Practice: P7.1 Installation of OPC P7.2 OPC protocols P7.3 Connectivity of PLC, SCADA & ARDUINO to OPC.
	Introduction, Power Scenario, Power Quality & Fault clearance.	7	Generation, Transmission & Distribution scenario in India, Hydro Power Generation [Lab Practice in Own Distribution Network, Modeling], Thermal Power Generation [Field Visit+ Lab Practice in Own Distribution Network], Renewable Energy Sources [Visit to Standard Testing Lab, Workshop Practice, & Maintenance], Energy Conservation, Electricity Costing & Audit, Future of Energy
	Switchyard & substation Networks	7	Switchyard system, Switchyard/Substation Types, System Networking, Busbar Electrical System, Layout plan, Safety Norms, & Isolation, Locking & Tagging
	Protection scheme & Switchgear	7	System Protection Schemes, IDMT Protection, Distance Protection, Busbar Protection, Switchgears, Safety Norms, & CT-PT, Locking & Tagging
	Cable system & Testing	7	General Cable System, 3 Phase cable system, Cable Protection, Cable Testing, Cable Jointing, Safety Norms, & Cable, Cable Layout
	Power Markets	7	Market Schemes, Market Framework, Market Operation, Channeling, Power Evacuation, Costing, Modeling
	Grid Safety	7	Safety Practice, Safety Framework, Fire Safety Operation, Electrical Safety, Safety Equipments, PPE, Safety Drill
	Transformer Manufacturing & Testing	7	About Transformer, Manufacturing Process, Transformer Operation, Electrical Safety in Testing, Testing Equipments, Type Test, Routine Test
	Renewable Energy Technology for Industrial Process	5	Module 1 Overview of Renewable Energy technology Module 2 Solar PV technology Module 3 Wind energy technology Module 4 Bio-energy technology Module 5 Solar Thermal Technology
	Materials for Sustainable Energy Applications	3	Module 1 Basic fundamentals of different types semiconductors Module 2 Efficiency calculation of solar cell Module 3 Perovskite based solar cell
	Microgrid Design and	4	Practice 1: Site survey (1 kW or 1MW) Practice 2: Sizing of micro grid system (1kW/1MW)

	Implementation		Practice 3: Single line diagram of micro grid system Practice 4: Identify and specify different components used in a micro grid system Practice 5: Connection practice of solar modules in a micro grid system Practice 6: Designing of micro grid system Practice 7: Analysis of micro grid system Practice 8: Designing of micro grid system with battery storage Practice 9: Performance calculation of micro grid system Practice 10: Connection practice of CCR/Inverter in a micro grid system Practice 11: Test, record and verify the power quality of a micro grid system Practice 12: O & M of micro grid system
	Hybrid Renewable Energy Systems	4	Module 1 Hybrid Power systems Module 2 Solar PV and Thermal (Solar PVT) system Module 3 Photovoltaic and wind system Module 4 Photovoltaic and Hydro system
	Solar Off-Grid Entrepreneur	3	Module 1 Government Scheme and Subsidy Module 2 Costing of Solar components and selection criteria Module 3 Business development for solar energy customers

List of Skill courses (Basket) approved

Sl. No.	Course Title	Credit
1	Introduction to Quantum Computing	4
2	Organic Farming	4
3	Mushroom Farming	4
4	Hydroponics Technology	4
5	Poultry Farming	4
6	Dairy Farming	4
7	Vermicomposting Farming	4
8	Transformer Manufacturing, Repairing and Maintenance	4
9	Electrical Installation	4
10	Repair and Maintenance of Home Appliances	4
11	Refrigeration and air conditioning	4
12	Super critical Co2 plant operation	4
13	Business Plan Preparation	4
14	Composite fabrication practice	4
15	Powder coating practice	4
16	Farm appliances operation	4
17	Bio fertilisers preparation	4
18	PCB designing & fabrication	4
19	Introduction to Block Chain Technology	4
20	Introduction to Nutraceuticals	4
21	Introduction to NLP	4
22	Introduction to Computational Biology	4
23	Product Life Cycle Management through Gate process	4
24	New material development with Biovia	4

25	Spectral image processing using Python	4
26	Satellite data processing	4
27	Working with Graphene and carbon fibre	4
28	Adobe Tools and Illustrations	4
29	Digital Painting	4
30	Computer Installation and Maintenance	4

List of Domain courses approved

Sl. No	Domain Course Title	Credit	(T+P+P)
1	Industrial Automation	24	5+9+10
2	Operation & Maintenance of Electrical Grid System & Transformers	24	6+14+4
3	Embedded System Design	18	3+9+6
4	Renewable Energy Applications	22	4+8+10

List of value added courses approved

Sl. No	Course Title	Hrs. of input
1	Natural Resource Management	30 Hours
2	Research Methodology and IPR	30 Hours
3	Urban Gardens using Hydroponics	30 Hours
4	Introduction to Python	30 Hours
5	MATLAB	30 Hours
6	Waste to Wealth	30 Hours
7	Technical Writing	30 Hours
8	Organic Farming	30 Hours
9	Disaster Management	30 Hours
10	Ethical Hacking	30 Hours
11	Web Development	30 Hours
12	Food & Nutrition	30 Hours
13	Clinical Practice	30 Hours
14	Innovation Management	30 Hours
15	Financial Literacy	30 Hours
16	Yoga and Meditation	30 Hours
17	Steps for Career Plan	30 Hours
18	MS Excel Basics	30 Hours
19	Quality Analysis	30 Hours
20	Ethical Writing Practice	30 Hours
21	Ansys	30 Hours
22	Video Making for Youtubers	30 Hours

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Engineering & Technology
Department of EEE

Time: 11.00 a.m.

Date: 11.07.2020

Venue: Virtual Mode

Board of Studies Meeting

Attendance Sheet

Sl. No	Name of the BoS Member(Internal Faculty and External Resource)	Designation	Signature
1.	Prof. (Dr.) Radhakant Padhi	Honorary Provost, Centurion University of Technology and Management	Attended online
2.	Prof. (Dr.) Jharna Majumdar	Prof. of Eminenc, Centurion University of Technology and Management	Attended online
3.	Prof. Jagannath Padhi	Director, Centurion University of Technology and Management	Attended online
4.	Prof. (Dr.) Prasant Kumar Mohanty	Dean, SoET, Centurion University of Technology and Management	Attended online
5.	Prof. (Dr.) Ashish Ranjan Dash	Associate Dean, SoET, Centurion University of Technology and Management	Attended online
6.	Prof. (Dr.) Sudhansu Kumar Samal	HOD, EEE, Centurion University of Technology and Management	Attended online
7.	Prof. (Dr.) P. K. Hota	Department of Electrical, VSSUT, Burla	Attended online
8.	Mr. P. K. Pradhan	Ex- Director (Commercial), GRIDCO; Ex-CEO, WESCO	Attended online

Dean, Academics

Dean - Academic

Centurion University of Technology & Management

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Pharmacy and Life Sciences

Date: 11-07-2020

MINUTES OF BOARD OF STUDIES MEETING held on 11-07-2020

Venue: Virtual Mode

Time: 02.30 p.m.

The Board of Studies (BoS) meeting of School of Pharmacy and Life Sciences(SoPLS) was held on **11-07-2020** at 11 a.m. The following members were attended:

1. Mr. Mahesh Pattnaik, Director SoPLS
2. Mr. Sisir Panigrahi, Director SoPLS
3. Dr. Gurudutta Pattnaik, Dean SoPLS
4. Dr. Amulyaratna Behera, Professor SoPLS
5. Dr. Susant Kumar Sahu, HOD UDPS, Utkal University

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the School of Pharmacy and Life Sciences presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: **The minutes of the last meeting of the BoS held on 22-06-2019 were confirmed.**

Agenda 2: **Apply M. Pharm in Pharmaceutics & Industrial Pharmacy branch.**

- The committee decided to apply for opening of M. Pharm in two specializations (Pharmaceutics & Industrial Pharmacy).

Agenda 3: **Discussion and Resolutions taken (Syllabus/Evaluation systems etc.)**

- Feedback received from expert from academics, Pharmaceutical industry & students for designing and review of syllabus.
- As per Pharmacy council of India, the statutory council which regulate the Education system in the country have restructured their syllabus in 2017. The new syllabus framed and implemented in 2018 is as per the current need Pharmaceutical sector. Hence the current syllabus is being imparted from 2018 to till date.
- School of Pharmacy and Life Sciences progress and performance in academic is reviewed and found satisfactory in syllabus, class performance and results, hence BOS after due deliberation accepted the points raised by the Dean of School of Pharmacy and Life Sciences.
- It is also resolved to follow the prescribed syllabus, credit system of PCI guide lines with an incorporation of university course code.
- Project work: The Board approved the revision of the syllaubus in keeping with the latest requirements of the industry.

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Empowering Communities

- It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members.

The Dean, School of Pharmacy and Life Sciences extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean, SoPLS
DEAN
SCHOOL OF PHARMACY AND LIFE SCIENCES
CUTM.BHUBANESWAR

Dean, Academics
Dean - Academic
Centurion University of Technology & Management
Bhubaneswar, Khurda. Odisha-752050

Additional Documents
Appendix 1

Skill Courses approved by university in 2020-21.

Sl. No	Course Title	Credit
1	Introduction to Quantum Computing	4
2	Organic Farming	4
3	Mushroom Farming	4
4	Hydroponics Technology	4
5	Poultry Farming	4
6	Dairy Farming	4
7	Vermicomposting Farming	4
8	Transformer Manufacturing, Repairing and Maintenance	4
9	Electrical Installation	4
10	Repair and Maintenance of Home Appliances	4
11	Refrigeration and air conditioning	4
12	Super critical Co2 plant operation	4
13	Business Plan Preparation	4
14	Composite fabrication practice	4
15	Powder coating practice	4
16	Farm appliances operation	4
17	Bio fertilisers preparation	4
18	PCB designing & fabrication	4
19	Introduction to Block Chain Technology	4
20	Introduction to Nutraceuticals	4
21	Introduction to NLP	4
22	Introduction to Computational Biology	4
23	Product Life Cycle Management through Gate process	4
24	New material development with Biovia	4
25	Spectral image processing using Python	4
26	Satellite data processing	4
27	Working with Graphene and carbon fibre	4
28	Adobe Tools and Illustrations	4
29	Digital Painting	4
30	Computer Installation and Maintenance	4

- **Value added Courses approved by university in 2020-21**

Sl. No	Course Title	Hrs. of input
1	Natural Resource Management	30 Hours
2	Research Methodology and IPR	30 Hours
3	Urban Gardens using Hydroponics	30 Hours
4	Introduction to Python	30 Hours
5	MATLAB	30 Hours
6	Waste to Wealth	30 Hours
7	Technical Writing	30 Hours
8	Organic Farming	30 Hours
9	Disaster Management	30 Hours
10	Ethical Hacking	30 Hours
11	Web Development	30 Hours
12	Food & Nutrition	30 Hours
13	Clinical Practice	30 Hours
14	Innovation Management	30 Hours
15	Financial Literacy	30 Hours
16	Yoga and Meditation	30 Hours
17	Steps for Career Plan	30 Hours
18	MS Excel Basics	30 Hours
19	Quality Analysis	30 Hours
20	Ethical Writing Practice	30 Hours
21	Ansys	30 Hours
22	Video Making for Youtubers	30 Hours

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Pharmacy and Life Sciences

Time: 02.30 PM   **Date: 11-07-2020**

Venue: Board Room, CUTM, Bhubaneswar (Online Mode)

Board of Studies Meeting

Attendance Sheet

Sl.No.	Name of the Member	Designation	Signature
1	Prof. Supriya Pattanaik	Vice Chancellor, CUTM	Attended online
2	Prof. Anita Patra	Registrar, CUTM	Attended online
3	Dr. S.K. Sahu	HOD UDPS, Utkal University	Attended online
4	Mr. Mahesh Pattnaik	Director SoPLS	Attended online
5	Mr. Sisir Panigrahi	Director SoPLS	Attended online
6	Dr. Gurudutta Pattnaik	Dean SoPLS	Attended online
7	Dr. Amulyaratna Behera	Professor SoPLS	Attended online

Dean, Academics

Dean - Academic
Centurion University of Technology & Management
Bhubaneswar, Khurda. Odisha-752050

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Agricultural and Bio-Engineering

Department of Phytopharmaceuticals

Date: 11/07/2020

MINUTES OF BOARD OF STUDIES MEETING held on 11/07/2020

Virtual Mode

Time: 12.00 p.m.

The Board of Studies (BoS) meeting of Department of Phytopharmaceuticals was held on 11/07/2020 at 12 p.m. in online mode (due to the continuing Covid-19 Pandemic). The following members are present during the meeting.

1. Dr. Prasanta Kumar Mohanty, Dean Academics, CUTM
2. Dr. Sivala Kumar, Dean SoABE, CUTM
3. Dr. U V Babu, Head R&D, Himalaya Wellness, Bangalore, India.
4. Dr. R Kannan, Principal Scientist, Himalaya Wellness, Bangalore, India.
5. Mr. Amitesh Roy Choudhury, Corporate Advisor.
6. Dr. Gitanjali Behera, HOD, Agricultural Engineering, CUTM
7. Dr. Prasanta Kumar Choudhury, Head Dairy Technology, SoABE, CUTM
8. Dr. Bhisma Narayan Rath, Head Phytopharmaceuticals, SoABE, CUTM
9. Dr. S. P. Nanda, Dean Administration, MSSSoA, CUTM
10. Dr. Devendra Reddy, Dean Academics, MSSSoA, CUTM
11. Prince K Jha, 3rd Year B.Tech Phyto Student, CUTM

Dean SoABE have given a presentation on course structure of B.Tech Ag, Dairy Technology and Phyto-pharmaceutical department. There was a thorough discussion on the syllabus of B. Tech Phytopharmaceuticals and the following feedback was suggested by the Experts.
The following agenda items were taken up subsequently:

Agenda 1: **The minutes of the last meeting of the BoS held on 22/06/2019 were confirmed.**

Agenda 2: Revision of Curriculum for the programme B.Tech Phyto

- It was discussed and decided to follow the CBCS structure of 5 Basket systems of Syllabus of School of Engineering & Technology in the B.Tech Phytopharmaceuticals programme.
- Dr. U. V. Babu & Dr. R. Kannan (Himalaya Wellness: Congratulations CUTM for Phytopharma. Basket 4 is very suitable for industry & students will have all desired expertise. Pharmacognosy need addition for bioactive components. Need addition of phytochemistry and natural products analysis by NMR. Regulatory course changes to focus

on GMP. Ensure students visit industry of students (To engage students in academic/industry interface.)

- Mr. Amitesh Roy Choudhary: CUTM is bridge between industry and academics. Don't give idea only for jobs, encourage entrepreneurship for students.
- Mr. Prince K Jha, Ms. Pragyan Paramita Puti: Agreed that majority of subjects are well planned and delivered. However, they are having biology background and were not comfortable in engineering subjects like (thermodynamics, mathematics).
- Industry Expert: The department have taken up everything in the course syllabus to graduate a best student from the University. The student should be exposed to more field visit and industrial visit, so that the outcome will be best. Dean SoABE explained that we have already taking our students to field and industry visit to have a better practical understanding of the subjects.
- The list of new courses added is given in Annexure A.

Agenda 3: **Discussion on modification of syllabus of Basket- 4, 5**

The Board approved the changes suggested in the core courses. List of existing courses where syllabus was changed in (*Annexure B*)

Agenda 4: **Inclusion of courses on life skills and value addition**

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being.The same was agreed upon and approved by the Board members.*(Annexure C).*

The Dean, SoABE, extended sincere thanks to all members of the Board. The meeting ended with a vote of thanks to the Chair.

Dean, SoABE   Dean, Academics   HoD, Phytopharmacutical

Dean - Academic
Centurion University of Technology & Management
Bhubaneswar, Khurda. Odisha-752050

Annexure-A

List of new courses added

Sl. No	Course Title	Type(Skill/Employability/Entrepreneurship)	Credit
1	Computer Aided Drafting	Skill and Employability	3
2	Product Design and Development	Skill and Employability	2
3	Reverse Engineering and Rapid Prototype	Skill and Employability	4
4	Product Life Cycle Management	Skill and Employability	2
5	Manufacturing Process- process planning and Heat Treatment	Skill and Employability	3
6	Material in product design and development	Skill and Employability	2
7	Computer Aided Engineering	Skill and Employability	3
8	Quality Assurance	Skill and Employability	2
9	Applied Ergonomics	Skill and Employability	2
10	Computer Aided Manufacturing	Skill and Employability	2
11	CNC Programming & CNC Machining	Skill and Employability	2
12	Design of Tools, Jigs and Fixtures	Skill and Employability	3
13	Advance Metrology	Skill and Employability	2
14	Thermodynamics	Skill and Employability	3
15	Fluid Mechanics with Finite Volume Method	Skill and Employability	3
16	Hydraulic Machinery	Skill and Employability	2
17	Theory of Machines	Skill and Employability	3
18	Heat Transfer with FDM/FVM	Skill and Employability	3
19	Theories of Failure Using Finite Element Analysis	Skill and Employability	4
20	Optimization Techniques	Skill and Employability	2
21	Programming in Java (Same as Java Technologies)	Skill and Employability	3
22	Database Management Systems	Skill and Employability	3

Annexure-B

List of existing courses where syllabus was changed

Basket/ Semester	Name of Course	No. of Modules/Topics revised	Revised Modules/Topics (details)
1	Post-Harvest Engineering of Horticultural Crops	1	Credits modified
2	Principles of Agronomy	1	Aligned with Fundamentals of Agronomy
3	Principles of Soil Science	1	Aligned with Fundamentals of Soil Science
4	Principles of Horticultural Crops and Plant Protection	1	Aligned with Fundamentals of Horticulture
5	Soil and Water Conservation Engineering and Water Harvesting and Soil Conservation Structures	2	The both course was merged into Soil-Water Conservation Engineering and Structure, the credit was modified to 4 credits

Annexure-C

List of Skill courses

Sl. No	Course Title	Credit	(T+P+P)
1	Introduction to Quantum Computing	4	0+3+1
2	Organic Farming	4	0+3+1
3	Mushroom Farming	4	0+3+1
4	Hydroponics Technology	4	0+3+1
5	Poultry Farming	4	0+3+1
6	Dairy Farming	4	0+3+1
7	Vermi composting Farming	4	0+3+1
8	Transformer Manufacturing, Repairing and Maintenance	4	0+3+1
9	Electrical Installation	4	0+3+1
10	Repair and Maintenance of Home Appliances	4	0+3+1
11	Refrigeration and air conditioning	4	0+3+1
12	Super critical Co2 plant operation	4	0+3+1
13	Business Plan Preparation	4	0+3+1
14	Composite fabrication practice	4	0+3+1
15	Powder coating practice	4	0+3+1
16	Farm appliances operation	4	0+3+1
17	Bio fertilizers preparation	4	0+3+1
18	PCB designing & fabrication	4	0+3+1
19	Introduction to Block Chain Technology	4	0+3+1
20	Introduction to Nutraceuticals	4	0+3+1
21	Introduction to NLP	4	0+3+1
22	Introduction to Computational Biology	4	0+3+1
23	Product Life Cycle Management through Gate process	4	0+3+1
24	New material development with Biovia	4	0+3+1
25	Spectral image processing using Python	4	0+3+1
26	Satellite data processing	4	0+3+1
27	Working with Graphene and carbon fibre	4	0+3+1
28	Adobe Tools and Illustrations	4	0+3+1
29	Digital Painting	4	0+3+1
30	Computer Installation and Maintenance	4	0+3+1

List of Domain courses

Group A: Agriculture/ Agri Engineering/Phyto pharma/ Dairy tech/ fisheries/ biological sciences
Group B: All other engineering/physical and mathematical science/vocational or skills
Group C: Pharmacy and allied Health
Group D: Management & media and communication

Sl. No.	Name of the Domain	Credit	Category	Year of introduction
1	Advance Video Processing, Computer Vision and Machine Learning	30	A/B/D	2020
2	Aerial Survey and Remote Sensing Applications	18	A/B	2020
3	Agri Business Management	23	A/B/D	2020
4	Architectural and Structural Design	20	A/B	2020
5	Business Analytics	21	A/B/D	2020
6	Chip Design and Fabrication using VLSI	18	B	2020
7	Commodity and Food Storage	29	A/B/D	2020
8	Communication Systems	18	B	2020
9	Composite Design and Manufacturing	24	A/B	2020
10	Computational Fluid Dynamics	20	A/B	2020
11	Cyber Security	24	B	2020
12	Dairy Processing and Development	28	A/B	2020
13	Fish Processing Technology	29	A/B	2020
14	Food Processing	29	A/B/D	2020
15	Gaming and Immersive Learning (AR & VR)	20	A/B/D	2020
16	Go-To-Market	22	A/B/D	2020
17	Health Care Assistancy	25	A/B	2020
18	Manufacturing Execution System	18	B	2020
19	Nutraceuticals	29	A/C	2020
20	Protected Horticulture	29	A/B	2020

21	Renewable Energy Applications	22	A/B	2020
22	Smart Agriculture	29	A/B	2020
23	Smart Farm Machinery	28	A/B	2020
24	Soil and Water Conservation through Watershed	28	A/B	2020

List of value added courses

Sl. No	Course Title	Hrs. of input
1	Natural Resource Management	30
2	Research Methodology and IPR	30
3	Urban Gardens using Hydroponics	30
4	Introduction to Python	30
5	MATLAB	30
6	Waste to Wealth	30
7	Technical Writing	30
8	Organic Farming	30
9	Disaster Management	30
10	Ethical Hacking	30
11	Web Development	30
12	Food & Nutrition	30
13	Clinical Practice	30
14	Innovation Management	30
15	Financial Literacy	30
16	Yoga and Meditation	30
17	Steps for Career Plan	30
18	MS Excel Basics	30
19	Quality Analysis	30
20	Ethical Writing Practice	30
21	Ansys	30
22	Video Making for Youtubers	30

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Agricultural & Bio-Engineering

Department of Agricultural Engineering

Time: 12.00 p.m.   Date: 11/07/2020

Venue: Board Room, CUTM, Bhubaneswar

Board of Studies Meeting
Attendance Sheet

Sl. No.	Name of the BOS Member(Internal Faculty and External Resource)	Organization	Signature
1	Dr. Supriya Pattanaik	CUTM	Attended Online
2	Dr. Anita Patra	CUTM	Attended Online
3	Dr. P.K. Mohanty	Dean, Academics	Attended Online
4	Dr. Sivala Kumar	Dean, SOABE	Attended Online
5	Dr. U V Babu	Himalaya Drug Company	Attended Online
6	Dr. R Kannan	Himalaya Drug Company	Attended Online
7	Mr. Amitesh Roy Choudhary	Corporate Advisor	Attended Online
8	Dr. Gitanjali Behera	CUTM	Attended Online
9	Dr. Prasant Kumar Choudhury	CUTM	Attended Online
10	Dr. SP Nanda	CUTM	Attended Online
11	Dr. Devendra Reddy	CUTM	Attended Online
12	Mr. Bhisma Narayan Rath	CUTM	Attended Online
13	Prince K Jha	Student, CUTM	Attended Online

Dean, SoABE

Dean, Academics
Dean - Academic
Centurion University of Technology & Management
Bhubaneswar, Khurda, Odisha-752050

Centurion
UNIVERSITY

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

MS Swaminathan School of Agriculture

Date:22.06.2019

MINUTES OF BOARD OF STUDIES MEETING held on 22.06.2019

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of MS Swaminathan School of Agriculturewas held on 22.06.2019at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following members were present:

1. Prof.P.K.Mahapatro
2. Prof.B K Mishra
3. Prof. M.Devender Reddy
4. Prof. Satya Prasad Nanda
5. HOD Agronomy
6. HOD Plant Pathology
7. HOD Entomology
8. HOD Soil Science
9. HOD Extension
10. HOD GBP
11. HOD Biotechnology
12. HOD Plant Physiology
13. HOD Horticulture
14. Alumni

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Dean of the MS Swaminathan School of Agriculturepresented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 22.06.2019were confirmed.

1. All the external BoS members appreciated the structure and course outline of different courses and domains. They mentioned that the courses are well structured, organized and application oriented as per academics and industry is concerned. They also appreciated the on-line class delivery initiative of the University.

2. Prof. P. K. Mahapatro, Retd. Dean, OUAT, suggested and emphasized to incorporate the smart agriculture management practice in production courses of UG and PG courses. He also suggested to give importance to on Biofertilizer production and utilization in organic production systems.

*Agenda 2:*Discussion and approval on any revision required in the Curriculum of B.Sc Agriculture

- The Dean Agriculture. gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this , the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2018-19.

- Discussion and Resolutions taken (Syllabus/Evaluation systems etc.);

Students should be more and more exposed towards industries and gain industrial experience, entrepreneurship skills and start ups.

Students should be trained in Digital Marketing Skills and in improving the personality

Reshuffling of courses in UG
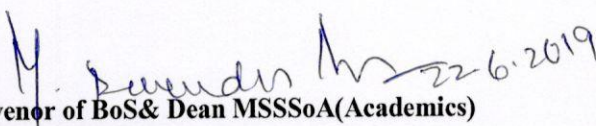
Agenda 3:Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being.The same was agreed upon and approved by the Board members.

1.under high tech horticulture, production of quality planting materials should be kept under ELP programme

2.Increase of organic farming production of biofertilizer a) 2 bio pesticides b)production technologies for field crops c)production technologies for horticultural crops should be kept under AELP track -1 and production of an individual crops under AELP track-2

3. It was decided to introduce new supporting and minor courses in M. Sc. (Ag) and follow the guideline of BSMA, ICAR from time to time. Newly formed domains for B.Sc (agriculture) like Organic Farming, Dairy processing and development, Intensive aquaculture, Seed production using manual and molecular method, Genetic engineering genomics, Smart Agriculture, Protected agriculture, Food processing, Commodity and food storage, Fish processing, Fish processing technology and several Skill courses.

The Dean , MS Swaminathan School of Agriculture. extended sincere thanks to all members of the Board.

The meeting ended with a voteof thanks to the Chair.

22·6·2019

Convenor of BoS& Dean MSSSoA(Academics)

Dean Administration

22·6·19

Proceedings of Board of Studies held on 22.06.19 at 10 Am on Board Room , CIT, Bhubaneswar.

Members present: 1. Dr. Jitendra Kumar Sundaray, Principal Scientist, CIFA
2. Mr. Sambid Swain, HOD, fisheries, CUTM
3. Dr. B. P. Mishra, Dean, SoABE, CUTM, PKD

B.F.Sc

For (2017-21) Batch and (2018-22) ; (2019-23) Batch.

* In 5th Semester following courses are offered FSAQ-3105 ; FSRM 3105, FSHM 3103, FSHM 3105, FSRM 3107, FSEE 3104, FSFF 3105, FSRM-3108, FSEM 3108, FSHM-2202, FSPT-3209.

Note: The Courses of (FSHM-2202) Microbial and parasitic Disease of fish and shell fish will be offered to the Board and (FSEE 2102) Aquaculture Engineering will be offered to the students of (2018-2022) and (2019-2023) in their 4th sem and 3rd sem. but for (2017-2021) those courses are offered for these course will be offered in 5th and 6th sem respectively.

* Quality Assurance of fish & fish product
  for Aquaculture Engineering Course will be offered in 6th sem for (2018-2022) and (2019-2023) batch but for (2017-2021) batch, the Same course will be offered at in 5th Sem.

* Taxonomy of shell fish (FSRM-1102) which is offered in 1st Semester will be shifted to 2nd Semester for the Convenience of the Student from 2019 Batch.
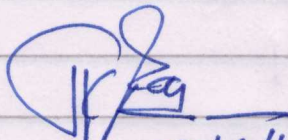
* Aquaculture in Reservoir (FSAQ-1207) which is offered in the 2nd Semester will be shifted to 1st Semester from 2019 batch

Addition of Matters in Theory Courses:
* Soil and water Chemistry (FSEM:1102) : Aeration, Chlorination, Ozonisation and UV radiation, Waste & water treatment practices
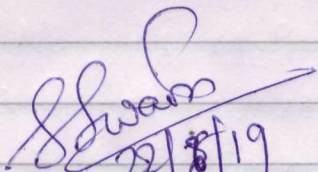
algal Bloom Control and Eutrophication, Aquatic weed Managem
Soil probiotics
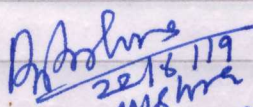
2. FSAQ -1202 (Freshwater Aquaculture) : Biofloc Technology (BFT)
   Zero water Aquaculture, Intensive System for Aquaculture;
   Impact of Aquaculture on Environment; Quarantine.

3. FSAQ -2109 (Fish Food Organisms) : Copepod, polycheats.

4. FSAQ -2103 (Ornamental Fish production & Management) : Value
   addition, Colour enhancement, Gene editing and Production
   of new strain, hybrids.

5. Coastal Aquaculture & Mariculture (FSAQ -2204) — pompano,
   Reef fisheries, Hilsa.

6. Therapetics in Aquaculture (FSHM) : Introduction to Anti
   Microbial Resistance (AMR)

7. Shell fish Hatchery Management (FSAQ-2206) — L. vennamei
   Breeding & Hatchery Management.

8. Fish Toxicology (FSHM 3105) — Endocrine disrupter
   Chemicals

9. Fisheries Co-operative and Marketing (FSEE 3104) — NCDC,
   FISHCOFED, NFDB, MPEDA

10. Fisheries policy and Law (FSEE-3203) : Odisha, fisheries
    policy -2015

[signature]
22/6/19
DR JITENDRA KUMAR SUNDARAY
HEAD OF DIVISION
(FISH GENETICS & BIOTECHNOLOGY)
ICAR CIFA, BHUBANESWAR

[signature]
22/6/19

Mr. SAMBID SWAIN
HOD, ~~Fishery~~ Department of fisheries
MSSSOA, CUTM, PKD

[signature]
22/6/19
B. P. Mishra.
Dean (SOABE)

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Engineering & Technology

Department of Civil Engineering

Date: 22/06/2019

MINUTES OF BOARD OF STUDIES MEETING held on 22/06/2019

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Civil Engineering was held on 22/06/2019 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following are the members:

1. Dr. Vazeer Mahmood, Professor, Dept of Civil Engg., Andhra University

2 Dr Siba Prasad Mishra, , Internal Expert

3 Prof. Prafulla Kumar Panda, Internal Expert

4 Prof. Sagarika Panda, Internal Expert

5 Prof. Kamal Kumar Barik, Internal Expert

6 Prof Rakesh Kumar Jena, Internal Expert

7 Prof Prashant Nayak, Internal Expert

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Civil Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: **The minutes of the last meeting of the BoS held on 30/06/2018 were confirmed.**

Agenda 2: **Discussion and approval on any revision required in the Curriculum of B.Tech, Civil Engg. , M.Tech Structural Engineering and M.Tech Transportation Engg.**

The HoD, Civil Engg. gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this , the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2020-21.

- The syllabus was highly appreciated because the university follows Choice-based Credit system and courses relevant to the advancement in Mechanical Engineering are put in the syllabus.
- The members noted that the courses are mostly industry-oriented and also provide scope for competitive examination like UPSC, GATE etc. The members remarked that the syllabus is designed to enhance skill level of the students.
- The syllabus offers scope for gaining knowledge in other branches of engineering. Also offers scope to enhance on knowledge in AI, Machine learning, Nano Technology, Data science, SAP etc.
- The syllabus is best suited for each semester, but certain courses need to be modified.
- The syllabus is good but as compared to the content of syllabus, the credits are very less.

- The syllabus is quiet useful. There should be more practice subjects to increase student efficiency and skill.
- The Board approved the updation of the courses important from higher studies point of view and replacement of contents of open basket with new courses with greater practice component. *(Annexure A.)*
- Discussion on modification of syllabus of Basket-5.
- The domain course should be taught in practice and project mode.
- The Board approved the changes suggested in the Hydraulics and Hydraulic machine, Disaster Management, Transportation Engg. And Water supply and sanitary engineering as per the latest Software and technology being used by the industry. List of existing courses where syllabus was revised in *(Annexure B & C)*

Agenda 3: **Inclusion of courses on life skills and value addition**

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being.The same was agreed upon and approved by the Board members.*(Annexure D)*

The HoD, Department of Civil Engg. extended sincere thanks to all members of the Board.

The meeting ended with a voteof thanks to the Chair.

22-06-19
HOD
Dept. of Civil Engineering
Centurion University of
Technology & Management,BBSR

Dean, SoET
Dean, SOET
Centurion University of Technology & Management
Odisha

Dean, Academics
Dean - Academic
Centurion University of Technology & Management
Bhubaneswar, Khurda. Odisha-752050

HoD, Civil Engineering

List of new courses added

Sl. No	Course Title	Type(Skill/Employability/Entrepreneurship)	Credit
1	Disaster Preparedness & Planning management	Skill And Employability	2
2	Functional Planning & DPR	Skill And Employability	3
3	Site Supervision & Measurement Methods.	Skill And Employability	4
4	Tendering Process, Bidding Contract, Agreements & Arbitration.	Skill And Employability	3
5	Green Building Design	Skill And Employability	3
6	Barrier Free Design	Skill And Employability	2
7	Intelligent Building Design	Skill And Employability	2
8	3D Modelling and VR experience of Building	Skill And Employability	4
9	Geospatial Technology and its Application	Skill And Employability	5
10	Photogrammetry and its Application	Skill And Employability	4
11	Concrete Technology	Skill And Employability	2

List of existing courses where syllabus was revised

Basket/ Semester	Name of Course	No. of Modules/ Topics revised	Revised Modules/Topics (details)
IV	Pre-Fabricated Structures	1	One module has been added depending on the industry requirement
IV	Soil Mechanics	2	One module has been added depending on the industry requirement
IV	Transportation Engineering	2	One module has been added and another module is merged with slight change as per industry requirement
IV	Water supply & Waste water Management	1	One module has been added depending on the industry requirement
IV	Hydrology & Water Resources Engineering	1	One module has been added depending on the industry requirement
IV	Quality Control and Risk Management in Construction	1	One module has been added depending on the industry requirement
IV	Geotechnical Investigations	1	One module has been added depending on the industry requirement
IV	Repairs, Renovation and Rehabilitation of Structures	1	One module has been added depending on the industry requirement
IV	Software Based Project Scheduling and Management	1	One module has been added depending on the industry requirement
IV	Earthquake Resistant Design	1	One module has been added depending on the industry requirement
IV	Architectural Design	1	One module has been added depending on the industry requirement
IV	Remote Sensing & Digital Image Processing	1	One module has been added depending on the industry requirement
IV	Lidar Remote Sensing and its Applications	1	One module has been added depending on the industry requirement
IV	Smart City Planning	1	One module has been added depending on the industry requirement

List of existing M.Tech courses where syllabus was revised

M Tech Structural Engineering

Sl no	Name of Course	No. of Modules/Topics revised	Revised Modules/Topics (details)
1	Advanced Structural Analysis	1	One module has been added depending on the industry requirement
2	Structural Dynamics	1	One module has been added depending on the industry requirement
3	Theory of Elasticity & Plasticity	1	One module has been added depending on the industry requirement
4	Bridge Engineering	1	One module has been added depending on the industry requirement
5	Computer Graphics	1	One module has been added depending on the industry requirement
6	Finite Element Method	1	One module has been added depending on the industry requirement
7	Concrete Technology	1	One module has been added depending on the industry requirement
8	Structural Engineering Lab	1	One module has been added depending on the industry requirement
9	Renovation and retrofitting of green structures	1	One module has been added depending on the industry requirement
10	Soil Dynamics and Geotechnical Earthquake Engineering	1	One module has been added depending on the industry requirement

M Tech Transportation Engineering

Sl no	Name of Course	No. of Modules/Topics revised	Revised Modules/Topics (details)
1	Pavement Analysis and Design	1	One module has been added depending on the industry requirement
2	Highway Project formulation and Economics	1	One module has been added depending on the industry requirement
3	Traffic Safety	1	One module has been added depending on the industry requirement
4	Remote Sensing and GIS for Transportation Engineering	1	One module has been added depending on the industry requirement
5	Pavement Evaluation, Rehabilitation and Maintenance	1	One module has been added depending on the industry requirement
6	Highway Project formulation and Economics	1	One module has been added depending on the industry requirement

List of Skill courses (Basket) approved

Sl. No	Course Title	Credit	(T+P+P)
1	Refraction Technology	3	0÷2÷1
2	Emergency Medical Technology	3	0÷2÷1
3	Medical Lab Technology	3	0÷2÷1
4	Operating Theatre Technology	3	0÷2÷1
5	Radiology Technology	3	0÷2÷1
6	Phlebotomy Technology	3	0÷2÷1
7	First Aid Service	3	0÷2÷1
8	General Duty Assistance Service	3	0÷2÷1
9	X- ray Technology	3	0÷2÷1
10	Retail Sales	3	0÷2÷1
11	Basketball	3	0÷2÷1
12	Gym Fitness	3	0÷2÷1
13	Swimming	3	0÷2÷1
14	Yoga & Meditation	3	0÷2÷1
15	Solar PV Installation	3	0÷2÷1
16	Solar Lighting Technology	3	0÷2÷1
17	Solar PV Microgrid System	3	0÷2÷1
18	Solar PV Driven Equipment O/M & Assembly	3	0÷2÷1
19	Solar Thermal Engineering	3	0÷2÷1

List of Domain courses approved

Sl. No	Domain Course Title	Credit	(T+P+P)
1	Automobile Engineering	24	8÷12÷10
2	Operation and Maintenance of Electrical Grid System & Transformers	24	8÷12÷10

List of value-added courses approved

Sl. No	Course Title	Hrs. of input
1	LSD-2	30
2	Conduct in daily Life-Insights from The Panchatantra	30
3	Human Rights	30
4	Renewable Energy	30
5	Data science & ML	30
6	Introduction to Nutraceuticals	30
7	Introduction to Tableau	30
8	Basics of Photography	30
9	Innovation Management	30

10	Effective Writing	30
11	Indian Culture and History	30
12	Critical Thinking	30
13	Disability, Diversity and Development	30
14	Intellectual Property Rights	30
15	Emotional Intelligence	30
16	Home remedies for healthy living	30
17	Self-Management: Insights from Srimad Bhagavad Gita	30

Proceedings of board of studies in civil Engg Dept held on 22'd June 2019 at Jalni campus

Considered the syllabus basket - IV & V and following recommendations were made.

Basket - IV.

CECC-0103 - Hydralics and Hydaulic Madue.
module - 9. Integral momentum Equation (only Introdueff)
Add - Introduction to NS Eqtn
module - Inclun of Air foil - mode - 4 - sudden Transition shud mention mode - 5, 4Rf - surface proffes , dr not step method.

Disaster mangent.
module - 3 - Title - slenf chye to manmade disaster

Estimation: Addition of few theory lectures

Foundation - modueA XRf shud to be maid optimal
module - 7 - Addition of liquification, overall concept shuld be corvolve subsurfue deluy in all practices

Transportation
module - 9 - Types of Road shud inkudud
module - 6 - To be shiflu to module - 2 ceefly subsemnt chamges.

Watrr Sury
module - Delion of Wafer Surly System instem of present ore.

Irrisation
module - 7 - Addition of Reserver Types, capacity ete.
Practice Prt (B) addition of Estimation of a desiin discyzy fr a given projet.

Rof. Bolu.

Dissitating Eng B. C. Punnir.

Domain - 5

-) Geo Techical investigation.

Module-6: Necessity of Water Table Study in Geo Tehical Engs.

-) Title of the corsse project manemtf project Shury mayement. shyl be chye.

1. Dr. (Mrs). Vazeer mahammood   22.06.2019

2. Prof. Prafulla Kumr Panda   Panda 22.06.19

3. Prof. sagarika Panda   22/6/2019

4. Prof. Kamay Ku. Barick   22-06-19

5. Prof. Rakesh Kum Teag   22.06.19

6. Prof. Prashant Nayak   Prasant 22-06-19

Proceedings of the Board of Studies in
M.Sc in Geoinformatics. held on
22.06.2019.

Member Presents:-

1. Prof. K.M. Setty.
2. Rudra Narrenyan Tripathy.
3. Anjan Kumar Mallick.
4. Kamal. Kumar Barik — Convenor.
5 Sagarika Panda - HOD, Civil

Business.

1. Resolved that the nomenclature M.Sc. in
   Geomatics should be changes to M.Sc.
   in " Geoinformatics".
2. Minor change in Syllabus has been made.
3. In III semester one mini project has
   been added as compulsory subject of
   "4" credits with a report and presentation
4. In IV Semesters "4" credit "web GIS"
   has been included. The project will be
   '20' credits.

22/6/19.

22.6.19

22/06/19

22-06-19

22/6/2019

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Paramedics and Allied Health Sciences

Date: 22/06/2019

MINUTES OF BOARD OF STUDIES MEETING held on 22/06/2019

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 AM

The Board of Studies (BoS) meeting of School of Paramedics and Allied Health Sciences was held on 22/06/2019 at 11 AM in the Board Room, CUTM Bhubaneswar.

The following members were present:

1. Dr. Debi Prasad Rath, M.D. Pathology

2. Dr. Debasish Sahoo, M.D. Microbiology

3. Dr. Amalendu Choudhary, Hi-Tech Medical College and Hospital

4. Prof. Sunil Kumar Jha, Dean SoPAHS

5. Dr. Soumya Jal, HoD SoPAHS

6. Ms. Sonali Dash, Faculty SoPAHS

All the members were welcomed to the session by the Chairperson and were briefed regarding the purpose of the meeting. Thereafter, the Dean of SoPAHS presented on the achievements, improvements of the department in terms of academics and infrastructure.

Following are the programs offered by SoPAHS:

MSc Medical Laboratory Technology (MSc MLT)
MSc Applied and Clinical Microbiology (MSc CMB)
BSc Medical Laboratory Technology (BSc MLT)
BSc Clinical Microbiology (BSc CMB)
BSc Medical Radiation Technology (BSc MRT)
BSc Optometry (BSc Optom)

Agenda of the meeting:

Agenda 1: The minutes of the last meeting of the BoS held on 30.06.2018 were confirmed.

Agenda 2: Discussion and approval on the content of syllabus for various courses of SoPAHS.

At first, the Dean of the school presented the feedback received from several stakeholders, on the curriculum of its various departments. With respect to the feedback received from the stakeholders, the committee discussed and approved for incorporation/ modifications in the curriculum for the Academic session 2019-18.

- The nomenclature for BSc Radiology and Imaging Technology was changed to BSc Medical Radiation Technology (BSc MRT) based on the requirement of the DMET council, Odisha.
- The structure and content for the courses of BSc Medical Radiation Technology, BSc Optometry were discussed and approved without any further revision.
- The committee approved to introduce the following programmes in SoPAHS:
  Bachelor of Physiotherapy;
  BSc MLT (Work Integrated);
  BSc Anaesthesia Technology;
  BSc OT-AT.
- Based on the feedback received from the stakeholders to incorporate more practical aspects, the committee approved modifications into the curriculum of the MLT; MSc MLT; BSc CMB; MSc CMB.
- Clinical Pathology was incorporated to the syllabus of MLT and CMB departments, based on the industrial need.
- It was also suggested to incorporate molecular diagnostic techniques into the curriculum of MLT and CMB.
- The committee discussed to emphasize on the research-based learning of the students, and therefore, Mini project was incorporated into the curriculum.
- The courses were structured to enhance the skill and industry-based learning and to improve scopes for competitive examinations.
- New courses added into the curriculum are provided in *Annexure A*.
- Modifications in syllabus are provided in *Annexure B*.
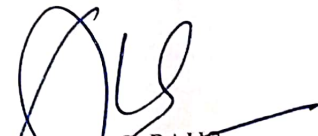
Agenda 3: Inclusion of courses on Domain, life skills and value addition

For their overall development and wellbeing of the students, it was advised that students enroll in the various life skills and value-adding courses that are offered by the university. The Board members agreed and gave their approval to the same.

Deatials of Domain courses, life skill and value added courses introduced are mentioned in *Annexure C*.

The Dean, SoPAHS extended sincere thanks to all the members of the Board.
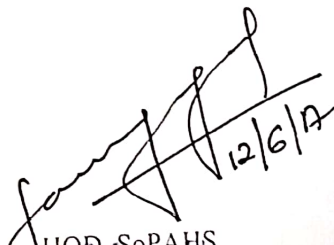
The meeting ended with a vote of thanks to the Chair.

Dean, SoPAHS
Prof. Sunil Kumar Jha
DEAN
School of Paramedics & Allied Health Sciences
~ity of Technology & Management
Odisha-752050

Dean, Academics
Dean - Academic
Centurion University of Technology & Management
Bhubaneswar, Khurda. Odisha-752050

12/6/19
HOD, SoPAHS
Associate Professor & HOD
School of Paramedics & Allied Health Sciences
Centurion University of Technology & Management
Ramachandrapur, Bhubaneswar - 752050

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Annexure A

List of new courses added

Sl. No	Course Title	Type (Skill/ Employability/ Entrepreneurship)	Credit
	MSc MLT		
1.	Clinical Pathology lab	Entrepreneurship	2
2.	Microbiology lab	Entrepreneurship	2
3.	Immunology lab	Employability	2
4.	Biochemistry lab	Employability	2
5.	Histopathology lab	Employability	2
6.	Mini Project	Employability	2
	MSc CMB		
1.	Clinical Pathology	Entrepreneurship	4
2.	Parasitology and Mycology lab	Employability	2
3.	Immunology lab	Employability	2
4.	Histopathology lab	Employability	2
5.	Biochemistry lab	Employability	2
6.	Mini Project	Employability	2
	BSc MLT		
1.	Clinical Pathology lab	Entrepreneurship	2
2.	Microbiology lab	Entrepreneurship	2
3.	Molecular Biology	Entrepreneurship	4
4.	Immunology lab	Employability	2
5.	Histopathology lab	Employability	2
6.	Biochemistry lab	Employability	2
7.	Parasitology lab	Employability	2
8.	Mycology and Virology lab	Employability	2
9.	Mini Project	Employability	2
	BSc CMB		
1.	Clinical Pathology lab	Entrepreneurship	2
2.	Microbiology lab	Entrepreneurship	2
3.	Virology and Mycology lab	Employability	2
4.	Analytical Biochemistry	Employability	4
5.	Industrial Microbiology lab	Employability	2
6.	Public Health Microbiology lab	Employability	2
7.	Biochemistry lab	Employability	2
8.	Diagnostic Bacteriology lab	Employability	2
9.	Mini Project	Employability	2

List of existing courses where syllabus was changed

Basket/ Semester	Name of Course	No. of Modules/Topics revised	Revised Modules/Topics (details)
MSc MLT			
	Research Methodology	3	Credits modified from 4 to 3 credits based on experts' suggestion
	Immunology and Parasitology	1	Cells and organs of Immune system
	Project	1	Credits modified to 10 credits based on experts suggestion
	Research Methodology	3	Credits modified from 4 to 3 credits based on experts' suggestion
	Immunology and Parasitology	1	Cells and organs of Immune system
MSc CMB			
	Research Methodology	3	Credits modified from 4 to 3 credits based on experts' suggestion
	Project	1	Credits modified to 10 credits based on experts suggestions
	Internship	1	Credits modified to 10 credits based on experts suggestion
BSc MLT			
	Analytical Biochemistry	2	Electrophoresis and Chromatography was included based on industry requirement
	Basic Computer and Information Science	3	Credits modified from 4 to 2 credits based on experts' suggestion
	Introduction to Quality and Patient Safety	3	Credits modified from 4 to 3 credits based on experts' suggestion
	Medical Law and Ethics	3	Credits modified from 4 to 3 credits based on experts' suggestion
	Research Methodology	3	Credits modified from 4 to 3 credits based on experts' suggestion
	Project	1	Credits modified to 10 credits based on experts suggestion
	Internship	1	Credits modified to 10 credits based on experts suggestion
BSc CMB			

	Public Health Microbiology	3	Credits modified from 4 to 3 credits based on experts' suggestion
	Industrial Microbiology	3	Credits modified from 4 to 3 credits based on experts' suggestion
	Basic Computer and Information Science	3	Credits modified from 4 to 2 credits based on experts' suggestion
	Epidemiology	2	Credits modified from 4 to 2 credits based on experts' suggestion
	Diagnostic Bacteriology	3	Credits modified from 4 to 3 credits based on experts' suggestion
	Medical Law and Ethics	3	Credits modified from 4 to 3 credits based on experts' suggestion
	Research Methodology	3	Credits modified from 4 to 3 credits based on experts' suggestion
	Project	1	Credits modified to 10 credits based on experts suggestion
	Internship	1	Credits modified to 10 credits based on experts suggestion

List of Domain courses approved
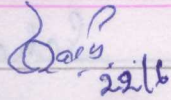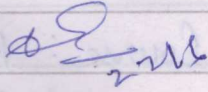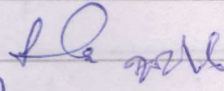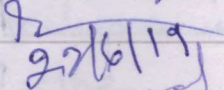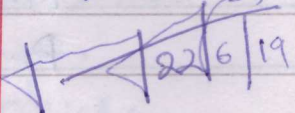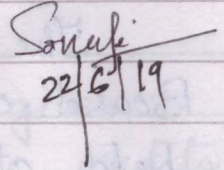
Sl. No	Domain Course Title	Credit	(T+P+P)
1.	Microbiology	28	(14+8+6)
2.	Medical Lab Technician	28	(12+10+6)
3.	Radiology and Imaging Technology	30	(14+10+6)

List of Skill courses (Basket) approved

Sl. No	Course Title	Credit	(T+P+P)
1.	Ophthalmic Lens and spectacle manufacturing Techniques	4	0+3+1
2.	Medical Diagnostic Techniques	4	0+3+1
3.	Refraction Technology	4	0+3+1
4.	Emergency Medical Technology	4	0+3+1
5.	Medical Lab Technology	4	0+3+1
6.	Operating Theatre Technology	4	0+3+1
7.	Radiology Technology	4	0+3+1
8.	Phlebotomy Technology	4	0+3+1
9.	First Aid Service	4	0+3+1
10.	General Duty Assistance Service	4	0+3+1
11.	X- ray Technology	4	0+3+1

List of value-added courses approved

Sl. No	Course Title	Hrs. of input
1.	Human Rights (FCMG0115)	30 hrs
2.	Gender Issues in Development (FCMG0401)	30 hrs

SLNO	NAME (PIOS)	PLACE	SIGNATURE
1	Dr. Debi Prasad Rath	M-81, Kapil Prasad Phase I, Bhimtangi, BBSR	*signature* 22/6
2	Dr. Debasish Saha (M)	Af/D Bhabtk 5h, BBSR-3	*signature* 22/6
3	Dr. Amalendu Chowdhu	Hi-tech medical college	*signature* 22/6
4	dr. K. Jha	Dean SPAHS	*signature* 22/6/19
5	Dr. Soumya Jal	HoD, SPAHS	*signature* 22/6/19
6	Sonali Dash	Visiting faculty SPAHS	Sonali 22/6/19

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Management

Date: 06.07.2018

MINUTES OF BOARD OF STUDIES MEETING held on 30.06.2018

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of School of Management was held on 30.06.2018 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following members were present:

1. Dr. Smita Mishra Panda, Director Research, CUTM
2. Dr. Anita Patra, Registrar, CUTM
3. Dr. Prasanta Kumar Mohanty, Dean, Academics, CUTM
4. Dr. Ashok Kumar Mohanty, Retd. Professor, Berhamur University
5. Dr. Rashmi Ranjan Parida, PGP Coordinator, CUTM
6. Dr. Pramod Kumar Patjoshi, Faculty, CUTM
7. Dr. Bibhunandini Das, Faculty, CUTM
8. Dr. Umakanta Nayak, Faculty, CUTM
9. Prof. Shiv Sankar Das, Faculty, CUTM
10. Prof. KVD Prakash, Faculty, CUTM
11. Dr. Bijay Bhujabal, Dean, SoM, CUTM

The Chairperson, CUTM welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Dean, SoM presented the achievements and improvements of the School in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 12.06.2017 were confirmed.

Agenda 2: Discussion and approval on revision required in the Curriculum of MBA Program

- The Dean, SoM presented the MBA curriculum based on the feedback and suggestions made by the various stakeholders. Board discussed the curriuculum throughly and approved the following suggestions for course revision to be implemented from the Academic Year 2018-19 (*Annexure-I*).
  - A new Area of Electives was introduced in Hospital Management with 48 credits.

Agenda 3: Discussion and approval on revision required in the Curriculum of MBA-DM & ABM program

The Dean, SoM presented the MBA- DM&ABM syllabus developed in collaboration with representatives of Norwegian University of Science and Technology (NTNU) and suggestions made by the various stakeholders . The Board accepted and approved the curriculum to be implemented from the Academic Year 2018-19 (*Annexure-II*).

Agenda 4: Discussion and approval on revision required in the Curriculum of BBA program

- BBA syllabus was presented based on the suggestions made by the various stakeholders . The Board accepted and approved the existing syllabus without changes for the academic year Year 2018-19.

Agenda 5: Discussion and approval on revision required in the Curriculum of BBA program

- B.Com syllabus was presented based on the suggestions made by the various stakeholders . The Board accepted and approved the existing syllabus without changes for the academic year Year 2018-19.

Agenda 6: Inclusion of courses on life skills and value addition

Various courses were presented to be offered by the University in the areas of life skills and value addition for the overall improvement and well being of students. The same was agreed upon and approved by the Board members. *(Annexure-III)*

The Dean, SoM extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean, SoM

Dean
School of Management
Centurion University, Odisha

Dean, Academics

Dean - Academic
Centurion University of Technology & Management
Bhubaneswar, Khurda Odisha-752050

(i)   List of new courses added in MBA

Sl. No	Course Title	Type (Skill/ Employability/ Entrepreneurship	Credit
Electives of Semester III and IV			
1	Power Distribution Management	Employability	4
2	Power Plant System	Employability	4
3	Project Planning, Analysis and Management	Employability, Entrepreneurship	4
4	Electricity Industry Structure and Act	Employability	4
5	Integrated Energy Management & Power Planning	Employability	4
6	Financing Energy Sector Projects	Employability, Entrepreneurship	4
7	Power Pricing & Power Purchase Agreement	Employability, Entrepreneurship	4
8	Power Trading	Employability	4
9	Power Station Management	Employability	2
10	Renewable Energy for a Sustainable Future	Employability, Entrepreneurship	4
11	Risk Hazard and Environment	Employability	2
12	Energy Conservation & Update	Employability	4
13	Maintenance Management and Inventory Control	Employability	4

List of new courses added in **MBA DM & ABM**

Sl. No	Course Title	Type (Skill/ Employability/ Entrepreneurship	Credit
Semester-I			
1	Introduction to Indian Society	Employability	2
2	Marketing Management	Employability & Entrepreneurship	4
3	Accounting for Managers	Employability & Entrepreneurship	4
Semester-II			
3	Financial Management	Employability & Entrepreneurship	4
4	Sustainable Entrepreneurship Development	Employability & Entrepreneurship	4
5	Skill Ecosystem Development	Employability	4
6	Innovation and Regional Development	Employability	4
7	Project Management	Employability & Entrepreneurship	4
Semester-III			
8	Summer Internship	Employability & Entrepreneurship	8
9	Development and Globalisation	Employability	7.5
10	Global Production Network	Employability	7.5
11	Research Methods	Employability & Entrepreneurship	7.5
12	Gender Issues in Development	Employability	3.5
13	Introduction to Ethics	Employability	1
Semester-IV			
14	Development Action Research Thesis	Skill development	10
16	Agriculture Action Research Thesis	Skill development	10

Skill Courses approved by university

Sl. No.	Course Title	Credit
1	Introduction to Composite Manufacturing	4
2	3D Modelling and Printing	4
3	Precast Concrete Manufacturing	4
4	Fabrication	4
5	Hi-Tech Surveying	4
6	Internet of Things	4
7	Mechatronics System Design	4
8	Introduction to Nanotechnology	4
9	Drone Piloting	4
10	Camera Operation	4
11	Editor	4
12	Desktop Publishing	4
13	Introduction to Blender and Unity tools	4

Value Added courses approved by university

	Course Title	Credit
1	LSD-2	30 Hours
2	Conduct in daily Life-Insights from The Panchatantra	30 Hours
3	Human Rights	30 Hours
4	Renewable Energy	30 Hours
5	Data science & ML	30 Hours
6	Introduction to Nutraceuticals	30 Hours
7	Introduction to Tableau	30 Hours
8	Basics of Photography	30 Hours
9	Innovation Management	30 Hours
10	Effective Writing	30 Hours
11	Indian Culture and History	30 Hours
12	Critical Thinking	30 Hours
13	Disability, Diversity and Development	30 Hours
14	Intellectual Property Rights	30 Hours
15	Emotional Intelligence	30 Hours
16	Home remedies for healthy living	30 Hours
17	Self-Management: Insights from Srimad Bhagavad Gita	30 Hours

BoS meeting held on dt. 30th June 2018
SCHOOL OF MANAGEMENT, Venue-

MEMBERS PRESENT

Eaternal
1. Mr. P.K. Das
2. Mr. P.K. Mishra
3. Mr. A.K. Mohanty

Internal
1. Prof. Anita Pat
2. Prof. Bijay Bhuje
3. Prof. P.K. Mohanty
4. Prof. KVD Pranab
5. Prof. Umananta Nay
6. Prof. Shiv Sanmar Da
7. Prof. Rashmi Ranjn Pa
8. Prof. Pramod Patjoshi
9. Prof. Bishnumohin Da

MBA Program.

- Simulated Internship program to be introduce
  in semester-02 of 2 credit.

- From EFC (Elective Foundation course) - Sales &
  Distribution management will never back t
  Semester - (1)

- 4th elective to be introduced in Semester - (1).

- Power Management course was discussed &
  explained by Mr. P.K. Das

MBA (DM).

- Prof. Rashmi Parida explained about the
  course MBA (DM) which is to be Joently
  given by NTNU and CUTM.

SIGNATURES OF MEMBERS.

┗NAL MEMBERS.   SIGNATURES

R. P.K. DAS

R. P.K. MISHRA
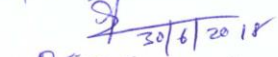
2. A.K. MOHANTY

┗ERNAL MEMBERS.   SIGNATURES

ʰᵒᶠ. ANITA PATRA (REGISTRAR)
     (Professor SOM)
ʳᵒᶠ. KVD PRAKASH (DEAN-IIE&HRD)   30/6/2018
ʳᵒᶠ. BIJAY BHUJABAL   30/06/18
ʳᵒᶠ. P.K. MOHANTY   30/6 len
Prᵒᶠ. UMAKANT NAYAK   30/06/18
Prᵒᶠ. SHIVSANKAR DAS

Prᵒᶠ. BIBHU NANDIN DAS

Prᵒᶠ. PRAMOD PATJOSHI

Prᵒᶠ. RASHMI RANJAN PARIDA

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Engineering & Technology

Department of Mechanical Engineering

Date: 30/06/2018

MINUTES OF BOARD OF STUDIES MEETING held on 30/06/2018

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Mechanical Engineering was held on **30/06/2018** at 11 a.m. in the Board Room, CUTM Bhubaneswar.

The following are the members:

1. Er. Rabindra Sah Chief Engineer, TATA Technologies

2. Prof.S.S Mohaptra Professor, NIT Rorkela

3 Prof.Tapan Rath Adjunct Professor, CUTM

4. Prof. P.S. Rao Dean Research, CUTM Paralakhemundi

5. Prof. Ramana Rao Dean, CUTM, AP

6. Prof. Ipsita Mishra HOD, ME, BBSR

7. Dr. R.C Mohanty Professor, SOET, Mechanical

8. Prof. Sukanta Nayak CUTM, PKD Campus

9. Mr. Sudeep Kumar Singh CUTM, Jatani Campus

10. Mr. Chandan Kumar Jena, Student

11. Mr. Ravi Kumar, Student

12. Mr. Hrusikesh Mishra, Alumni

13. Mr. Mohit Singh Alumni

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Mechanical Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: **The minutes of the last meeting of the BoS held on 12.06.2017 were confirmed.**

Agenda 2: **Approval for B.Tech Mechanical Engineering Course structure and syllabus for basket 3 and 4 of CBCS system.**

The HoD, Mechanical Engg. gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this , the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2018-19.

- Contact hour need to be less and more hours should be allotted for practice.
- As per the AICTE Regulation, to give extra 20 credits for specialization as major degree and minor degree.
- Subject wise feedback was given for courses in basket 3 and basket 4.
- In Geometric Modelling contact hours were noted to be very less.
- Actual design is missing in metrology syllabus. For Robotics pre-requisite should be geometric modelling.
- In Digital Manufacturing, Delmia Quest software to be used.
- The Board approved the updation of the courses important from higher studies point of view and replacement of contents of open basket with new courses with greater practice component. List of new courses added in *(Annexure A.)*
- Structure and contents of all courses for basket 3 and 4 was discussed.
- Focus on theoretical aspects should be more in Mechanics.
- The students need to be given basic idea about fundamentals of projection.
- No repetition of the content in any course.
- Time duration of the course to be in accordance with credit requirement.
- One-month orientation program is being conducted for new joining students where exposure is given to students on new technology and domain.

- The Board approved the changes suggested in the Mechanics, Geometric Modelling, Metrology, Workshop Practice as per the latest Software and technology being used by the industry. List of existing courses where syllabus was changed in *(Annexure B)*

Agenda 3: Inclusion of courses on Domain, skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. *(Annexure C)*

The HoD, Department of Mechanical Engg. extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean, SoET
Dean, SOET
Centurion University of Technology & Management
Odisha

Dean, Academics
Dean - Academic
Centurion University of Technology & Management
Bhubaneswar, Khurda, Odisha-752050

HoD, Mechanical Engineering

List of new courses added

Sl. No	Course Title	Type(Skill/Employability/Entrepreneurship)	Credit
1	Engineering Metrology and Measurements	Skill And Employability	3
2	Quality Control and Reliability Engineering	Skill And Employability	3
3	Fluid Power Control	Skill And Employability	3
4	Introduction to Hybrid and Electric Vehicles	Skill And Employability	3
5	Renewable Energy Systems	Skill And Employability	3
6	Manufacturing Technology 1	Skill And Employability	3
7	Manufacturing Technology 2	Skill And Employability	3
8	Design for Manufacturing	Skill And Employability	3
9	Finite Element Analysis	Skill And Employability	3
10	Digital Manufacturing	Skill And Employability	3
11	Fundamentals of Heat Engine	Skill And Employability	3
12	Design of Thermal Energy Systems	Skill And Employability	3
13	Mechanics of Machines	Skill And Employability	3
14	Strength of Material	Skill And Employability	3
15	Design of Transmission Systems	Skill And Employability	3
16	Fluid Mechanics and Heat Transfer	Skill And Employability	3

List of existing courses where syllabus was changed

Basket/ Semester	Name of Course	No. of Modules/ Topics revised	Revised Modules/Topics (details)
III	Mechanics	1	**Flexural Stresses in beams:** Theory of simple bending, assumptions, flexure formula, determination bending stresses, section modulus for various beam sections, neutral axis.
III	Geometric Modeling	1	**Drafting & Surface Modeling:** Creation of Layout, Conversion of Part drawing to projection views, detailed drawing. Creation of Surfaces, Simple Surface Models
III	Metrology	2	Gear Tooth Metrology; Inspection & Alignment Tests.Transducers; Variable Resistance Transducer; LVDT; Comparative Transducer; Piezoelectric Transducer; Photo Voltaic Cells; Devices for Pressure Measurement- Dead Weight Tester; Bourdon Tube Pressure Gauge; Diaphragm and Bellow Gauges.(Topics will be covered by explaining and fallowed by practice mode) Low Pressure Measurements; Force Measuring Using Proving Rings; Torque Measuring Using Dynamometers; Strain Measurements; Profile Projector; Tool Maker's Microscope; Optical Flats; Laser Interferometers; Autocollimators.

List of Skill courses (Basket) approved

Sl. No	Course Title	Credit	(T+P+P)
1	Introduction to Composite Manufacturing	CUTM3042	0+3+1
2	3D Modelling and Printing	CUTM3043	0+3+1
3	Precast Concrete Manufacturing	CUTM3045	0+3+1
4	Fabrication	CUTM3046	0+3+1
5	Hi-Tech Surveying	CUTM3047	0+3+1
6	Internet of Things	CUTM3048	0+3+1
7	Mechatronics System Design	CUTM3049	0+3+1
8	Introduction to Nanotechnology	CUTM3051	0+3+1
9	Drone Piloting	CUTM3052	0+3+1
10	Camera Operation	CUTM3053	0+3+1
11	Editor	CUTM3054	0+3+1
12	Desktop Publishing	CUTM3055	0+3+1
13	Introduction to Blender and Unity tools	CUTM3056	0+3+1

List of Domain courses

Sl. No	Domain Course Title	Credit	(T+P+P)
1	Welding and Inspection	30	6+10+14
2	Conventional Machining & CNC	30	6+10+14
3	Automobile Engineering	30	8+12+10
3	Courses of 3D Experience Domain	35	0+15+20

List of value added courses

Sl. No	Course Title	Hrs. of input
1	Introduction to Ethics	30
2	Human rights	30
3	Renewable energy	30
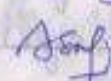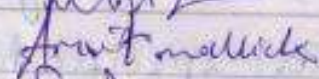
Agenda — Approval of Mechanical engineering
Basket IV and Basket V Syllabus
For 2018 Batch Students

Date - 22/06/19

Venue - Cad lab, CIT Campus Jatani.

Member Present :-   Signature

1. Prof. S. l Mohapatra (NIT Rourkela)
2. S. S. Mohanty (Nilachal Ispat Nigam Ltd)
3. Mr. Rabindra Sah (CUTM, BBSR)
4. Prof. P. l Rao (CUTM, PKD)
5. Dr. A. M Mohanty (PRO. VC)
6. Mr. Tapas Rath (CUTM, BBSR)
7. Dr. R. C Mohanty (CUTM, BBSR)
8. Prof. Amrit Mallick (CUTM, PKD)
9. Prajna Paramita Debata (HOD, ME)
10. Mrs. Ipsita Mishra
11. Mr M. K Rath.
12. Sudeep Kumar Singh (Asst Prof. Mechanical Engg)

Centurion UNIVERSITY

.CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Applied Sciences

Department of Zoology

Date: 30.06.2018

MINUTES OF BOARD OF STUDIES MEETING held on 30.06.2018

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Zoology was held on 30.06.2018 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following members were present:

1. Prof. Animesh Kumar Mahapatra, Professor, Dept. of Life Science, (Regional Institute of education) ,BBSR
2. Dr. Siba Prasad Parida, HoD, Dept. of Zoology, SoAS, CUTM, Bhubaneswar
3. Mr. Debasish Tripathy, Dept. of Zoology, SoAS, CUTM, Bhubaneswar
4. Dr. Sitaram Swain, Dept. of Zoology, SoAS, CUTM, Bhubaneswar

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Zoology presented the achievements and improvements of the department in the areas of academics, research and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: **The minutes of the last meeting of the BoS held on 12th June, 2017 were confirmed.**

Agenda 2: **Discussion and introduction of new Domain and Skills courses in the curriculum of B.Sc. Zoology (Hons.) to be approved.**

- The HoD, Zoology gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for the courses and programme to be implemented from the Academic Year 2018-19.

Agenda 3: Introduction of new programme (M.Phil. Zoology and Ph. D Zoology)

- The M.Phil. Zoology programme was introduced and the syllabus for 1 year was prepared and approved after necessary modification as per UGC Guideline.

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- Ph. D Zoology programme was introduced and approved after necessary modification as per UGC Guideline.

Agenda 4: **Inclusion of Domain courses**
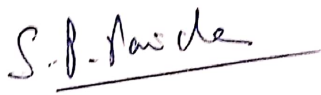
- Inclusion of two domain courses in B.Sc. Zoology (Hons.) with the existing courses in the areas of life science for their overall improvement and well-being, were approved by the Board members. **(Annexure-I)**
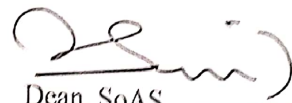
Agenda 5: **Inclusion of courses on life skills and value addition**

- Inclusion of six skill courses in B.Sc. Zoology (Hons.) with the existing courses in the areas of life skills and value addition for their overall improvement and well-being were approved by the Board members. **(Annexure-II)**

The HoD, Department of extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

HoD, Dept. of Zoology

H O.D
Department of Zoology
School of Applied Sciences
CENTURION UNIVERSITY OF TECHNOLOGY & MANAGEMENT
Bhubaneswar Odisha

Dean, SoAS

DEAN
School of Applied Sciences
CENTURION UNIVERSITY OF TECHNOLOGY & MANAGEMENT
Bhubaneswar,Odisha

30·6·2018

Dean, Academics

Dean - Academic
Centurion University of Technology & Management
Bhubaneswar, Khurda, Odisha-752050

Annexure I

Domain Courses

Domain: Reproductive Physiology

Subject Name	Code	Type of course	T-P-P(Credit)	Prerequisite
Basics of Neuroscience	BSRPDE01	Theory + Practice	3-1-3(06)	Nil
Exploring The Brain: Structure and Function	BSRPDE02	Theory + Practice	3-1-3(06)	Nil
Endocrinology	BSRPDE03	Theory + Practice	3-1-3(06)	Nil
Reproductive Biology	BSRPDE04	Theory + Practice	3-1-3(06)	Nil

Domain: Biodiversity Management

Subject Name	Code	Type of course	T-P-P (Credit)	Prerequisite
Biology of Insecta	BSBMDE01	Theory + Practice	3-1-3(06)	Nil
Animal Behaviour and Chronobiology	BSBMDE02	Theory + Practice	3-1-3(06)	Nil
Wildlife conservation and management	BSBMDE03	Theory + Practice	3-1-3(06)	Nil
Environment And Public Health	BSBMDE04	Theory + Practice	3-1-3(06)	Nil

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Empowering Communities..

Annexure II
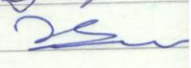
Skill Enhancement Courses

Sl. No.	Code	Subject Name	Type (L-T-P)	Credits
1.	BSLS2005	Vermicomposting	0-0-3	04
	BSLS2011	Pisciculture	0-0-3	04
2.	BSLS2012	Sericulture	0-0-3	04
3.	BSLS2013	Ecotourism	0-0-3	04
4.	BSLS2014	Poultry Management	0-0-3	04
5.	BSLS2015	Ornamental Fish Management	0-0-3	04
		Total		**20**

Value added Courses (B. Sc. & M. Sc.)
Value added Courses

Sl. No.	Code	Course name	Course Type	Credit
1	FCMG0116	Fundamental of Ethics	Theory	2
2		Human Right	Theory	2

SL-NO	Name	Place	Signature
1.	Prof. Animesh Ku. Mohapatra	Prof, Dept. of Life Science, RIE, BISR	30.6.18
2.			
2.	Dr. Siba Prasad Parida	Associate Prof. Dept. of Zoology (CUTM)	S P Parida 30/6/18
3.	Dr. Sitaram Swain	Asst. Prof. Dept. of Zoology (CUTM).	30/6/18
4.	Dr. Debasish Tripathy	Asst. Prof. Dept of Zoology, CUTM, Bolangir	30.6.18
5.	Dr. Sushanta Kumar Biswal	Dean, School of Applied science. CUTM.	

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

MS Swaminathan School of Agriculture

Date:12.06.2017

MINUTES OF BOARD OF STUDIES MEETING held on 12.06.2017

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of MS Swaminathan School of Agriculturewas held on 12.06.2017 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following members were present:

1. Prof.P.K.Mahapatro
2. Prof.B K Mishra
3. Prof. M.Devender Reddy
4. Prof. Satya Prasad Nanda

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Dean of the MS Swaminathan School of Agriculturepresented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: **The minutes of the last meeting of the BoS held on 12.06.2017 were confirmed.**

Agenda 2: **Discussion and approval on any revision required in the Curriculum of B.Sc Agriculture**

- The Dean Agriculture. gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this , the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2017-18.
- The syllabus of 3rd to 8th semester of B. Sc agriculture. was considered and approved by the Board.
- The Board approved the updation of the courses important from higher studies point of view and replacement of contents of open basket with new courses with greater practice component
- Courses that can be executed in Practice mode were placed for approval to be reconfigured to Theory + Practice and Project + Practice.
- The Board approved the revision of the syllaubus of the Construction Domain in keeping with the latest requirements of the industry.

Agenda 3: **Inclusion of courses on life skills and value addition**

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being.The same was agreed upon and approved by the Board members.

The Dean , MS Swaminathan School of Agriculture. extended sincere thanks to all members of the Board.

The meeting ended with a voteof thanks to the Chair.

Convenor of BoS& Dean MSSSoA(Academics)   12/6/2017

Dean Administration   12/6/17

Proceedings of the Board of Studies held on 12th June 2015 at 10 AM.
(B. Sc Agriculture)

Dated: 12.06.17

Members present

1. Prof. (Dr.) P. K. Mohapatra, former Dean, OUAT.
2. Prof. (Dr.) B. N. Mishra, — do —
3. Prof. (Dr.) M. D. Reddy, Dean (Academic) MSSCOA
4. Dr. S. P. Nanda, Dean (Admin) "

The members have gone through the Prepared Curriculum and syllabus and suggested the following things for modification:

B. Sc Ag

1. The course fundamentals of Biochemistry should be 3 Credits (2+1) instead of (1+1), total credit in 3rd semester should be 24 (15+9)

2. In semester III, under Crop Production Tech I, it should be kharif crops
   In " IV, " " " , " Rabi crops

3. In semester IV, DFHC at their Agmnt - I should be deleted with field crops.

4. In semester VI, Principles of Integrated pest of Mgmt should be offered by both Ento al Pathology department (50% each)

5. In semester I, the remedial Course would be, term into account while calculating total CGPA.

6. An elective Course can be offered provided there would be minimum of 30 students.

7. The Climate Smart agriculture should be included in place of climate Resilient Agriculture of Agrometeorology

Should be included in FE subjects.

8. In modular courses the course on biofertili &
   Production should to have bioparticulars also.

9. The AELP should be a Continuous form.

M.Sc Ag

1. Agronomy : Compulsory al Core courses are
   AGROM 501, 503, 504, 506, 507, 511, 512
   591, 599

2. Fruit Science : FSC 501, 504, 505, 506, 507, 508, 511,
   591, 599
   Add Fruit Preservation al it should be a minor for the
   Vegetable science students
   Add vegetable Preservation in vegetable science and it
   should be minor for fruit science students.

   Vegetable Science : VSC 501, 502, 503, 504, 505, 507, 509
   591, 599

   Agricultural

3. Extension al communication : EXT 502, 503, 504, 505
   Core courses. 506, 512, 591, 599

4. Genetics al Plant Breeding : GP 501, 502, 503, 504, 50?
   Core courses : 508, 509, 591, 599

5. Plant Mol. Biology al Biofechnly : MAB 501, 502, 503, 505
   Details are given in the appendix 507, 509, 552, 591, 59?

   12/6/17   M. Devendra   12/6/17

   12/6/17   12-06-17

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Engineering & Technology

Department of Computer Science and Engineering

Date: 02.06 2017

MINUTES OF BOARD OF STUDIES MEETING held on 02.06.2017

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Computer Science and Engineering was held on 02.06.2017 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following are the board members:

1. Dr. M. Vamsi Krishna, HOD CSE
2. Mr. Ramprasad Patnaik, Industry Expert from Infosys
3. Sumanjit Das, Asst. Prof., CSE
4. Swati S. Barik, Asst. Prof., CSE
5. Sankarsan Biswas, iNurture Education Solutions
6. Dr. Prasant Kumar Mohanty, Dean, SoET

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Computer Science Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: **The minutes of the last meeting of the BoS held on 20.06.2016 were confirmed.**

Agenda 2: **Discussion and approval on any revision required in the Curriculum of B.Tech, Computer Science Engg.**
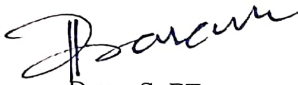
- The HoD, Computer Science and Engg. gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this , the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2017-18.
- The syllabus revision of 3rd to 8th semester of B. Tech, Computer Science and Engg. was considered and approved by the Board.
- The Board approved the changes suggested in the existing syllabus and some new courses added as per the latest Software and Technology being used by the industry *.(Annex-1)*
- Industry Collaborations have been made for Silicon Tech Lab for Data Analytics Domain, Aspire Mind for Software Technology, and GIET India for Internet Security Domain. *(Annex 2)*
- Courses that can be executed in Practice mode were placed for approval to be reconfigured to Theory + Practice and Project + Practice.

Agenda 3: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. *(Annex 3 and Annex 4)*

The HoD, Department of Computer Science and Engg. extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean, SoET

Dean, Academics

HoD, Computer Science & Engineering

Dean, SOET
Centurion University of Technology & Management
Odisha

Dean Academics
Centurion University of Technology & Management
Odisha

HOD CSE
Centurion Institute of Technology

Annexure-1

List of new courses added

Sl. No	Course Title	Type(Skill/Employability/Entrepreneurship/higher studies/Industry)	Credit
1	Introduction to Internet Technology	Skill And Employability	3
2	Introduction to Programming in C	Skill And Employability	5
3	Object Oriented Programming Using C++	Skill And Employability	5
4	Database Management System	Skill And Employability	5
5	Python Programming	Skill And Employability	5
6	Programming for Problem solving– Java	Skill	3
7	Programming Internet of Things	Skill	3
8	Build Your Own Computer	Skill	2
9	Cloud Computing Applications	Skill	2
10	Software Development Methodologies	Skill	2
11	Operating System Programming	Skill	7
12	Advanced Web Technologies	Skill And Employability	3
13	Modern Trends in Computing	Skill	1
14	Project – I	Skill	2
15	Project -II	Skill	2
16	Project-III	Skill	2
17	Building of Cloud Infrastructure	Skill And Employability	5

18	Deployment Architecture -I	Skill And Employability	5
19	Deployment Architecture - II	Skill And Employability	5
20	Internship	Skill And Employability	5
21	Project	Skill And Employability	4
22	Advanced Networking	Skill And Employability	6
23	Oracle Database Administration and SQL	Skill And Employability	4
24	Problem Solving through Coding	Skill And Employability	4
25	Linux and Lamp Administration	Skill And Employability	4
26	Testing and Test Automation	Skill And Employability	4
27	Web Services using Java	Skill And Employability	4
28	Internship	Skill And Employability	4
29	Project	Skill And Employability	6
30	Python for Data Science and Machine Learning	Skill And Employability	4
31	Supervised and Unsupervised Machine Learning	Skill And Employability	4
32	Advanced Neural Network (RNN & CNN)	Skill And Employability	4
33	ML Techniques in Image Processing	Skill And Employability	4
34	Deep Learning Techniques and Neural Network	Skill And Employability	4
35	Internship	Skill And Employability	4
36	Project	Skill And Employability	6

Domain Courses

Group A: Agriculture/ Agri Engineering/Phyto pharma/ Dairy tech/ Fisheries/ Biological Sciences
Group B: All other Engineering/Physical and Mathematical Science/Vocational or Skill Development
Group C: Pharmacy and Allied Health
Group D: Management & Media and Communication

Sl. No.	Name of the Domain	Credit	Category	Year of introduction
1	Automotive Design	40	B	2017
2	Cloud Technology	18	B	2017
3	Construction Planning Monitoring and Project Management	16	A/B	2017
4	Data Analytics	20	A/B/D	2017
5	Embedded System Design	18	B	2017
6	Industrial Automation	24	B	2017
7	Information Security	41	B	2017
8	Internet Security	38	B	2017
9	Manufacturing (Conventional, CNC And Additive)	26	A/B	2017
10	Planning, Design & Drawing	47	B	2017
11	Software Technology	20	A/B	2017
12	Surveying	36	A	2017
13	VLSI Design & Verification	42	A	2017
14	Web Technology	38	A/B	2017
15	Welding And Inspection	24	A/B	2017

Skill Courses approved by university

S No	Course	Course Code	Credit
1	Apparel Production & Marketing	CUTM3029	4
2	Line Stitching Supervising	CUTM3030	4
3	Apparel Production	CUTM3031	4
4	Light Motor Vehicle Driving	CUTM3032	4
5	Fork Lift Operation	CUTM3033	4
6	Heavy Vehicle Technology	CUTM3034	4
7	Two Wheeler Service Technology	CUTM3035	4
8	Four Wheeler Service Technology	CUTM3036	4
9	E-Vehicle Assembly and Service Technology	CUTM3037	4
10	Robotics	CUTM3038	4
11	Poultry Farming	CUTM3039	4
12	CNC Programming (CAM)	CUTM3040	4
13	Design Supervising Wooden and Modular Furniture	CUTM3041	4

Value Added courses offered by university

S No	Course	Course code	Credit Hours
1	LSD-2	CUVA0011	30 Hours
2	Development of Concentration and Memory- Application of 'Raja Yoga' in daily life	CUVA0025	30 Hours
3	Self defence for Girls	CUVA0026	30 Hours
4	Digital Marketing	CUVA0027	30 Hours
5	Bio-fertilizer	CUVA0028	30 Hours
6	Gender Issues	CUVA0029	30 Hours
7	Solid Waste Management	CUVA0030	30 Hours
8	Smart Agriculture	CUVA0031	30 Hours
9	Adobe Tools	CUVA0032	30 Hours

* Proceedings of 4th BoS meeting for the session

Agenda - Approval for B.Tech Mechanical Engineering
Course structure & syllabus for Basket-II (Domain specific subjects) for CBCS for academic
year   and M.Tech by Research

Date :- 12-6-2017

Venue:- CAD Lab, CIT Campus, gANS.

Members present :-
1) Prof. S.K. Mahapatra, IIT. Bhubaneswar
2) Shri. Ali kishore patnaik, managing director, orissa of efel. (Ashok Leyland)
3) Prof. P.S. Rao, DEAN R & D, Parlakhemundi.
4) Prof. B.P. Mishra, DEAN, SOET, Parlakhemundi.
5) Prof. R.C. Mohanty, Dept of Mech Engineering, CIT
6) Mrs. Epsita Mishra, HoD, Dept of Mech, CIT
7) Mr. D. Raghuveer, HoD, Dept of Mech, Parlakhemun
8) Mr. Babuli Kumar Jena, Dept of Mech, CIT
9) Mr. Manas Ranjan Padhi, Dept of Mech, CIT
10) Mr. G.N. Arka, Dept of Mech, CIT
11) Mr. Sudeep Singh, Dept of Mech, CIT
12) Mukundjee Pandey, Dept of Mech, CIT, John

Shri. Ali Kishore Patnaik
MD, orissa diesel.

Prof. R.C. Mohanty 12/06/17
Dept of mech.

Mr. D. Raghuveer 14/6/17
HoD, mech, parlakhemundi.

Prof. N.S. Rao
DEAN, R&D

Mrs. Ipsita Mishra
HoD, mech, CET

(Prof. S.K. Mahapatra)
Professor, IIT BBSR

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

Date: 20.06.2017

MINUTES OF BOARD OF STUDIES MEETING held on 12.06.2017

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of School of Management was held on 12.06.2017 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following are the board members:

1. Dr. Haribandhu Panda, Vice Chancellor, CUTM
2. Dr. Smita Mishra Panda, Director Research, CUTM
3. Dr. Anita Patra, Registrar, CUTM
4. Dr. Prasanta Kumar Mohanty, Dean Academics, CUTM
5. Dr. Ashok Kumar Mohanty, Retd. Professor, Berhamur University
6. Mr. Mathew Anthony, Director, iNurture
7. Prof. Rashmi Ranjan Parida, PGP Coordinator, CUTM
8. Dr. Pramod Kumar Patjoshi, Faculty, CUTM
9. Dr. Ansuman Jena, Faculty, CUTM
10. Prof. Umakanta Nayak, Faculty, CUTM
11. Prof. KVD Prakash, Dean, SoM, CUTM

The Chairperson, CUTM welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Dean, SoM presented the achievements and improvements of the School in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: **The minutes of the last meeting of the BoS held on 02.06.2016 were confirmed.**

Agenda 2: **Discussion and approval on revision required in the Curriculum of MBA program**

- The Dean, SoM gave a presentation based on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on that, the Board accepted and approved the following suggestions for course revision to be implemented from the Academic Year 2017-18 (*Annexure-I*).
  - A new Area of Electives was introduced in Hospital Management with 40 credits.
  - A new Area of Electives was introduced in Digital Marketing & E-Commerce with 42 credits.
  - Courses in which revision was undertaken were Quantitative Techniques in Semester-I and Operation Research in Semester-II. (Decision Perspective of Management of 2 credit was converted into two subjects i.e. QT and OR comprising of six credit) of two subjects.

Agenda 3: Discussion and approval on revision required in the Curriculum of MBA-DM & ABM program

- The Dean, SoM presented the feedback received on curriculum outlining the suggestions made by the various stakeholders . Based on that, the Board accepted and approved the following suggestions for course revision to be implemented from the Academic Year 2017-18 (*Annexure-II*).
  - A new area of elective was approved to be offered in Agri-business management.
  - The name of the programme was changed to MBA- DM &ABM.

Agenda 4: Discussion and approval on revision required in the Curriculum of BBA program

- BBA syllabus was presented based on the suggestions made by the various stakeholders . The Board accepted and approved the existing syllabus without changes for the academic year Year 2017-18.

Agenda 5: Discussion and approval on revision required in the Curriculum of B.Com program

- The Dean, SoM presented the newly developed syllabus for B.Com and after thorough discussion of courses, the program and syllabus was approved (*Annexure-III*).

Agenda 6: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. *(Annexure-IV)*

The Dean, SoM extended sincere thanks to all members of the Board.

The meeting ended with a Vote of Thanks to the Chair.

Dean, SoM

Dean
School of Management
Centurion University, Odisha

Dean, Academics

Dean - Academic
Centurion University of Technology & Management
Bhubaneswar, Khurda, Odisha-752050

List of new courses added in MBA

Sl. No		Course Title	Type (Skill/ Employability/ Entrepreneurship	Credit
Electives of Semester III and IV				
1		Hospital Administration	Employability	4
2		Management Information Systems for Hospital	Employability & Skill development	2
3		Management of Out-Patient Department	Employability & Skill development	4
4		Risk and Disaster Management	Employability	4
5		Management of Quality	Employability	4
6		Legal and Ethical Issues for Hospitals	Employability	4
7		Health Insurance	Employability	2
8		Project Management in Health Care	Employability	4
9		Marketing of Hospital Services	Employability, Entrepreneurship	4
10		Clinical, Diagnostic & Therapeutic Services	Employability	4
11		Patient Care and Behavior	Employability & Skill development	4
12		Web Traffic Generation	Employability, Entrepreneurship & Skill development	2
13		Link Building & e-WoM	Employability, Entrepreneurship & Skill development	2
14		Social Media Marketing	Employability, Entrepreneurship & Skill development	4
15		Branded Content and the Future of Media	Employability	4
16		Ideas, Brands and Business	Employability	2
17		Brand Planning and Consumer Insights	Employability, Entrepreneurship	4
18		Digital Strategies and Planning	Employability & Entrepreneurship	4
19		Mobile & E-Mail Marketing	Skill development	4
20		Search Engine Optimization	Skill development	2
21		Search Engine Marketing	Skill development	4
22		Technology of e-Commerce	Skill development	2

23		Online Reputation Management	Skill development	4
24		Affiliate Marketing	Skill development	2
25		Web Content Writing	Skill development	2

List of existing courses where syllabus was revised for **MBA**

Basket/ Semester	Name of Course	No. of Modules/Topics revised	Revised Modules/Topics (details)
I	Quantitative Techniques	1	Nature, Scope and limitations of statistics; uses of statistics to business and industrial activities, Statistical Data –primary and secondary data, Collection of data, Classification and tabulation of data, Diagrammatic and graphic representation of data. Questionnaire –its characteristics and drafting
II	Operation Research	1	Game Theory introduced

List of new courses added in MBA DM & ABM

Sl. No	Course Title	Type (Skill/ Employability/ Entrepreneurship	Credit
Electives of Semester I and II			
1	Individual and Group Behaviour	Employability	2
2	Principles of Management	Skill development	2
3	ICT in Agriculture	Skill development	2
4	Logistics and Supply Chain Management	Employability	2
5	Agricultural Marketing	Employability	2
6	Economic Environment for Agriculture	Employability	4
7	Operation Research	Employability	2
8	Management Information Systems	Employability	2
Semester-III of ABM			
9	Study of an Organization	Employability, Entrepreneurship	6
10	Field Intervention/(Ag. Development Action)	Employability, Entrepreneurship	6
11	Sales and Distribution Management	Employability	2
12	Agricultural Extension Management	Employability	2
13	Corporate Social Responsibility	Employability	2
14	Disaster Management	Employability	2
15	Food Retail Management	Employability	2
16	Post-harvest and Processing Management	Employability	2
17	Insurance and Risk Management	Employability	2
Semester-IV of ABM			
18	Management Action Component-1	Employability	6
19	Management Action Component - 2	Employability	6
20	Live-stock Management	Employability, Entrepreneurship	2
21	Agri-export and WTO	Employability, Entrepreneurship	2
22	Total Quality Management	Employability	2
23	Contract Farming	Employability	2
24	Micro-finance and FI	Employability	2
25	Commodity Market and Trading	Employability, Entrepreneurship	2
26	Social Entrepreneurship	Skill development	4

List of new courses in B.Com (New Syllabus)

Sl. No	Course Title	Type (Skill/ Employability/ Entrepreneurship	Credit
Semester I			
1	Proficiency in English	Employability	2
2	Management Principles and Applications	Employability	4
3	Computer Application in Business	Skill Development	4
4	Financial Accounting I	Employability & Entrepreneurship	4
5	Business Mathematics	Employability & Entrepreneurship	4
6	Business Economics	Employability & Entrepreneurship	6
Semester II			
7	Reading to Writing	Employability	2
8	Business Law	Employability & Entrepreneurship	6
9	Business Statistics	Employability & Entrepreneurship	6
10	Introduction to Banking	Employability	4
11	Business Environment	Employability & Entrepreneurship	4
12	Financial Accounting II	Employability & Entrepreneurship	4
Semester III			
13	Financial Management	Employability & Entrepreneurship	6
14	Direct Tax	Employability	4
15	Indirect Taxes / GST	Employability & Entrepreneurship	4
16	Tally.ERP 9	Skill Development	6
17	Cost & Management Accounting	Employability & Entrepreneurship	4
18	Corporate Law	Employability & Entrepreneurship	4
Semester IV			
19	E-Commerce	Employability	4
20	Advanced Excel	Skill Development	4
21	Quantitative Techniques for Business	Employability	4
22	Entrepreneurship Development	Entrepreneurship	6
23	Auditing	Employability	4
24	Business Ethics & Governance	Employability, Entrepreneurship	4
Semester V			

25	Corporate Accounting	Employability & Entrepreneurship	4
26	Financial Market Operation	Employability	4
27	On Job Internship-I	Employability, Entrepreneurship & Skill development	12
Semester VI			
28	Global Finance	Employability	4
29	Banking Law & Practice	Employability	4
30	On Job Internship-II	Employability, Entrepreneurship & Skill development	12
		Total Credit	**144**

Skill Courses approved

Sl. No.	Course Title	Credit
1	Apparel Production & Marketing	4
2	Line Stitching Supervising	4
3	Apparel Production	4
4	Light Motor Vehicle Driving	4
5	Fork Lift Operation	4
6	Heavy Vehicle Technology	4
7	Two Wheeler Service Technology	4
8	Four Wheeler Service Technology	4
9	E-Vehicle Assembly and Service Technology	4
10	Robotics	4
11	Poultry Farming	4
12	CNC Programming (CAM)	4
13	Design Supervising Wooden and Modular Furniture	4

Value Added courses approved

	Course Title	Credit
1	LSD-2	30 Hours
2	Development of Concentration and Memory- Application of 'Raja Yoga' in daily life	30 Hours
3	Self defence for Girls	30 Hours
4	Digital Marketing	30 Hours
5	Bio-fertilizer	30 Hours
6	Gender Issues	30 Hours
7	Solid Waste Management	30 Hours
8	Smart Agriculture	30 Hours
9	Adobe Tools	30 Hours

CENTURION UNIVERSITY OF TECHNOLOGY
AND MANAGEMENT
SCHOOL OF MANAGEMENT

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Board of Studies Meeting (Bhubaneswar Camp

Date : 12th June 2017
Time : 10:30 AM
Venue : Bhubaneswar Campus.

Members Present

1) Dr. Haribandhu Panda, VC, CUTM
2) Dr. Smita Mishra Panda, Director Research
3) Dr. Anita Patra, Registrar, CUTM
4) Dr. Ashok Kumar Mohanty, Expert
5) Mr. Mathew Anthony, Expert, inNurture
6) Mr. Sukanta Parida, GM, ICA University Alliance
7) Dr. Prasanta Kumar Mohanty, Dean, Academic
8) Prof. Rashmi Ranjan Parida, PGP Coordinator, SoM
9) Prof. Umakanta Nayak, Faculty, SoM
10) Prof. Ansuman Jena, Phd faculty, SoM
11) Prof. Bibhunandini Das, Phd, faculty, SoM
12) Prof. Shiv Sankar Das, Faculty, SoM
13) Prof. K.V.D Prakash, Dean, SoM

* BBA and B. COM (ICA): The whole course was discussed and was approved by all members.

* MBA (Data Analytics): 5 subjects were added to the existing course structure, no changes were proposed bon any existing courses.

* MBA (Hospital Management): New electives on Hospital management was introduced and was appro The meeting came to an end after extending a vote of thanks to all present members.

Signatures of Members Present.