STUDENT HANDBOOK

COLLEGE OF SCIENCE AND TECHNOLOGY

... In pursuit of preparing tomorrow's technologist!

2026 — 2027

ROYAL UNIVERSITY OF BHUTAN

Personal Information

Name: .....

CID No: .....

Student No: ..... Year of Study: .....

Programme: ..... Section: .....

Date of birth: ..... Blood group: .....

Mobile No:.....

Email ID: .....

Father/Mother's name: .....

Parent's occupation: .....

Parent's current Address:

…….....

.....

.....

Permanent address:

Village: ..... Gewog: .....

Dzongkhag: .....

Parent's tel/mobile No:.....

Parent's Fax No: .....

Parents email ID: .....

Module Registration and Completion Date

(It is to be filled by the student as and when he/she registers for a module and mention the date of completion of each module)

FIRST YEAR							
SEMESTER I				**SEMESTER 11**			
S.No.	**Module Code**	**Start Date**	**Completion Date**	**S.No.**	**Module Code**	**Start Date**	**Completion Date**
SECOND YEAR							
SEMESTER III				**SEMESTER IV**			
S.No.	**Module Code**	**Start Date**	**Completion Date**	**S.No.**	**Module Code**	**Start Date**	**Completion Date**
THIRD YEAR							
SEMESTER V				**SEMESTER VI**			
S.No.	**Module Code**	**Start Date**	**Completion Date**	**S.No.**	**Module Code**	**Start Date**	**Completion Date**
FOURTH YEAR							
SEMESTER VII				**SEMESTER VIII**			
S.No.	**Module Code**	**Start Date**	**Completion Date**	**S.No.**	**Module Code**	**Start Date**	**Completion Date**

FIFTH YEAR (For Architecture Programme Only)							
SEMESTER IX				SEMESTER X			
S.No.	Module Code	Start Date	Completion Date	S.No.	Module Code	Start Date	Completion Date

Signature of the Student:

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1 Background

The College of Science and Technology offers Masters and Undergraduate Degree programmes in Engineering. It aims to establish itself as the "Centre of Excellence in Science and Technology enriched with GNH values" in the region with a mission to create an environment to foster the growth of intellectually capable, professionally competent, ethically sound, and innovative professional able to contribute to the development of Bhutan, and to the growth of Science and Technology in the country.

The College campus spans 50.2 acres of land in **Rinchending**, offering a scenic view of **Phuentsholing town**. Situated just 5 kilometers from the town center along the Thimphu national highway, it is also conveniently close to the **Pasakha industrial estate**.

1.1 The Vision

The vision of the college is to be "A centre of excellence in science and technology enriched with GNH values".

1.2 The Mission

The mission of the College is;

"to offer internationally recognized programmes in science and technology";
"to generate new knowledge through research and innovation to fulfill the needs of the society";
"to collaborate with stakeholders and provide expert services"; and
"to provide community services to enhance GNH based society".

2 Programme

The College currently provides a range of academic programs, including a Master of Construction Management, a Master of Engineering in Renewable Energy, and four-year undergraduate engineering degrees in Civil Engineering, Electrical Engineering, Electronics & Communication Engineering, Information Technology, Engineering Geology, Instrumentation & Control

Engineering, Water Resources Engineering, Software Engineering, and Mechanical Engineering, as well as a five-year Architecture programme. Additionally, the College offers three-year undergraduate programs for diploma holders in Civil, Electrical, Electronics & Communication, and Information Technology, recognizing their prior learning. All programs are validated and approved by the Royal University of Bhutan.

1.2 The Departments

There are five academic departments in the College, namely Civil & Environmental Engineering Department (inclusive of Civil engineering, Engineering Geology, and Water Resources Engineering), Architecture Department, Electrical & Electronics Engineering Department (inclusive of Electrical, Electronics & Communication and Instrumentation & Control Engineering), Information Technology Department (inclusive of Information Technology and Software Engineering), and Science & Humanities Department.

3 Academic Session

Each academic session comprises of two semesters. The academic session for the year **2025-2026** is as follows:

Autumn Semester	: 16th July – 17th December
Winter Break	: 18th December - 31st January
Spring Semester	: 1st February – 30th June
Summer break	: 1st July – 15th July

Morning Assembly is conducted as and when required. All students are required to attend the assembly. The objective of having assembly is to enable students and faculty members to share information and deliver speeches/talks to enhance their public speaking skills and to receive guest lectures during the morning assembly.

4 Specific Objectives of Master of Engineering in Renewable Energy

Master of Engineering in Renewable Energy graduates will be able to:

- Communicate scientifically in both oral and written forms
- Analyse and evaluate environmental, social, and economic impacts of renewable energy systems.
- Evaluate constraints and commercial risks related to renewable energy.
- Initiate, plan and design new renewable energy infrastructure.
- Evaluate options for energy supply and appraise the environmental sustainability of renewable energy systems.
- Evaluate and optimise renewable energy systems using modelling techniques.
- Analyse grid integration of different renewable energy sources
- Assess a range of problems related to renewable energy and apply new emerging technologies to solve these complex problems.
- Diversify alternative energy sources to enhance energy supply security.
- Use emerging technologies to upgrade and maintain renewable energy systems.
- Provide climate change solutions through the adoption of renewable energy technologies
- Provide technical solutions to hydropower plant and sediment control.
- Provide a holistic approach to implementing renewable projects covering social, economic and climate change aspects
- Apply critical thinking on theoretical design concepts of the renewable energy system and their practical application.
- Integrate development policies and strategies in implementing renewable energy and climate change projects.

4.1 Curriculum Structure

Year	Semester	Modules			
1	I	RET501 Solar Technologies (PV and Thermal)	RET502 Wind Energy Technologies	RET503 Hydropower	RET504 Bioenergy
	II	ENE502 Climate change and Energy	ENE501 Energy Economics and Management	APS502 Mathematical Modeling and Data Analysis	Elective
2	I	**PRW604 Dissertation**			
		Elective Modules			
	RET506 Sediment Management	RET505 Integration of Renewable Energy into Grid	AMT502 Energy Conservation Techniques in Buildings	APS501 Applied Thermodynamics	CPM508 Organisational Behaviour
Non-credited Modules					Academic Writing

5 Specific Objectives of the Masters in Construction Management

To accommodate and cater to the pressing time and work demand for in-service candidates, the programme offers the flexibility for students to voluntarily exit after each semester. Students will be awarded a Postgraduate Certificate in Construction Management (PgCert.in CM) and Post Graduate Diploma in Construction Management (PgDip. in CM) after the successful completion of semester I and II respectively. Option to continue the programme after a certain duration is also offered upon fulfilling the necessary entry requirement conditions.

Postgraduate Certificate (PgCert.):

With the knowledge on the fundamental principles and techniques for managing projects, students exiting with the Postgraduate Certificate (PgCert) award will be able to:

1 Develop project delivery plan.
2 Frame and manage contractual provisions in construction projects
3 Map and project resource requirement for project activities
4 Formulate quality assurance plan for achieving quality standards.
5 Identify appropriate technology and construction methods for enhancing the efficiency of project activities.
6 Specify technical and engineering standards on materials, processes and products in construction project..
7 Set up safety standards and protocol at work place

Postgraduate Diploma (PgDip.)

Building on the learning outcomes under the PgCert award, through knowledge and skills on more advanced and specialized aspect of project management, students exiting with the Postgraduate Diploma (PgDip) award will be able to

1 Estimate and control project cost
2 Carry out project feasibility studies and prepare budget proposals
3 Perform performance evaluation for managing project finances
4 Formulate comprehensive project delivery scheduling and controlling plan through the use of project management software and tools.
5 Enhance the productivity of resources and project assets.
6 Evaluate and manage risk in construction projects.
7 Lead and motivate team and manage dispute and conflicts

Masters Degree :

Displaying a high level of professional and technical understanding on a broad range of existing as well and emerging trends in theory and practice in managing construction projects, upon the successful completion of the Masters Programme, in addition to the learning outcomes under PgDip, students will be able to:

1. Conceive, develop and propose and defend project proposal document and implementation plan.
2. Adapt and adjust project delivery schedule and resources based on anticipated/imminent risk and opportunities.
3. Generate new knowledge for/in the construction industry through independent research and enquiry.
4. Innovate solutions to address existing challenges and to tap into emerging opportunities.

5.1 Curriculum Structure

Year 1 Semester-I

#	Code	Module Name	Contact Hours			Credit	Marks		
							Theory		Practical / Field Work
			L	T*	P		CA	EX	
1	CPM501	Construction Project Management	3	1	0	15	70	30	-
2	CPM502	Construction Contract Management	3	1	0	15	65	35	
3	AMT501	Advanced Construction Material and Technology	3	1	0	15	60	40	-
4	CPM503	Quality and Ethics in Construction Project	3	1	0	15	70	30	
TOTAL						**60**			

Year 1 Semester-II

#	Code	Module Name	Contact Hours			Credit	Marks		
							Theory		Practical /Field Work
			L	T*	P		CA	EX	
1	CPM504	Investment Analysis for Infrastructure Project	3	1	0	15	60	40	-
2	CPM505	Project Planning,	3	1	2	15	60	40	

		Scheduling and Controlling							
3	CPM506	Risk Management in Construction Project	3	1	0	15	60	40	-
4		Elective (From the List)				15	-	-	-
TOTAL						**60**			**-**

Year 2 Semester-III & IV

#	Code	Name of the Module	Contact Hours			Credit	Marks		
							Theory		Practical / Field Work
			L	T	P		CA	EX	
1	PRW604	Dissertation	1	0	0	60	40	60	0
TOTAL			1	0	0	60	40	60	0

*T = Tutorial, Group Discussion, Panel Discussion, and Seminar Presentation

Elective List:

1 AMT502 Energy Conservation Techniques in Buildings
2 CPM507 Infrastructure and Disaster Management
3 CPM508 Organizational Behavior

6 Master of Science in Engineering (MSc. Engineering by Research)

The Master of Science in Engineering by Research (MSc. Eng) programme aims to provide advanced, research-focused education that equips graduates with the knowledge, skills, and competencies needed to address complex engineering challenges and contribute to Bhutan's socio-economic development goals. It seeks to develop innovative professionals with strong problem-solving abilities, creativity, and advanced technical expertise across various engineering and related fields. Graduates of the programme are expected to pursue careers in both public and private sectors, within Bhutan and internationally, and to make meaningful contributions to research, policy, and practical solutions.

The Msc. Eng. Offers a unique opportunity to solve the practical and industry based national challenges through research and innovation.

The MSc. Engineering by Research at CST is a premier postgraduate programme designed for aspiring research engineers who seek to push the boundaries of technical knowledge.

It offers Versatile Learning and Global Exposure with Opportunity for Exchange Programme.

Mixed Mode of Study: 6 months on-campus and 18 months off-campus.

Entrance Requirements

A candidate will be eligible for admission to the programme upon fulfilling the following:

- Must have completed a minimum of a bachelor's degree in engineering

- International applicants must provide a valid International English Language Testing System (IELTS) certificate with an overall band score of 5.5 or an equivalent score from a recognised English proficiency test. Alternatively, the college may administer its own English proficiency assessment to evaluate the applicant's language competence. This requirement does not apply to applicants whose native language is English.
- Candidates must obtain a minimum overall aggregate of 50 % across the selection criteria, comprising an oral interview, statement of research intent and undergraduate academic marks. Further, a candidate must obtain a minimum of 50% in the oral interview and the written statement of research intent.
- The selection process will be administered by the Office of the Dean of Research and Industrial Linkages.

Curriculum Structure for Master's by Research degree

Year	Semester	Module Code	Modules	Credit
Year 1	I	RES501	Research Methods	15
		RES502	Applied Statistics	15
		PRW507	Scientific Writing and Communication	15
		**	Electives	15
		PRW608	Thesis	Audit
	II	SEM501	Advanced Seminar	Audit
		PRW608	Thesis	-
Year 2	I	PRW608	Thesis	-
	II	PRW608	Thesis	180
			Total Credits	240

Elective List

Year	Semester	Module Code	Modules	Credit
Year 1	I	CEE501	CEE501 Emerging Frontiers in Civil and Environmental Engineering	15
		EEE501	Advanced Engineering Systems and Technologies	15

7 Specific Objectives of the Degree Programme in Civil Engineering

Upon successful completion of Bachelor in Civil Engineering programme, graduates will be able to:

1. Analyse, design, prepare working drawings, and estimate various real-time civil engineering structures.
2. Prepare bid documents incorporating specification of works, evaluate tenders and administer the contracts.
3. Conduct field surveys for civil engineering works.
4. Evaluate and interpret civil engineering field related tests.
5. Execute civil engineering projects with quality assurance and control measures.
6. Formulate/prepare project proposals and plans.
7. Integrate new developments of technology in civil engineering technology.
8. Analyse the impact in a global, economic, environmental and in the societal context of the civil engineering profession.
9. Recognize the need and inculcate in life-long learning.
10. Tackle any civil engineering contemporary issues.
11. Engage with stakeholder and community.

7.1 Semester wise modules for the 4-year degree programme in Civil Engineering

Year 1, Semester I			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	MAT102	Calculus and Infinite Series	5	0	0	12	50	50	0
2	BPD101	Building Materials and Construction	4	0	2	12	35	40	25
3	TSM101	Engineering Mechanics	4	0	0	12	50	50	0
4	CHE101	Engineering Chemistry	4	0	2	12	35	40	25
5	DZG101	རྫོང་ཁ་བཙན་དོན་རྩོལ་ལེན།	4	0	0	12	70	30	0
Total			21	0	4	60	270	180	50
Total contact hours/week = 25 hrs							Total Marks=500		

Year 1, Semester II			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	MAT102	Multivariate Calculus, Differential Equations and Matrices	5	0	0	12	50	50	0
2	TSM102	Strength of Materials	4	0	2	12	35	40	25
3	CPL103	Introduction to Python Programming	3	0	3	12	35	40	25
4	ACS101	Academic Skills	3	1	0	12	100	0	0
5	EGP101	Engineering Graphics	1	0	6	12	60	40	0
6	DIY101	Workshop Practice	0	0	5	12	0	0	100
Total			16	1	16	72	280	170	150

Total contact hours/week = 33 hrs		Total Marks=600

Year 2, Semester I			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	MAT204	Complex Analysis, Fourier Series and PDE	5	0	0	12	50	50	0
2	FMH201	Fluid Mechanics	4	0	0	12	50	50	0
3	SUR201	Principles of Surveying-I	3	0	3	12	35	40	25
4	TSM203	Structural Mechanics-I	4	0	0	12	50	50	0
5	BPD202	Building Planning and Drawing	1	0	3	12	100	0	0
Total			17	0	6	60	280	190	25
Total contact hours/week = 23 hrs							Total Marks=500		

Year 2, Semester II			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	MAT207	Fourier Transform, Statistics and Probability	4	0	1	12	35	40	25
2	FMH202	Hydraulics	4	0	2	12	35	40	25
3	SUR202	Principles of Surveying-II	3	0	3	12	35	40	25
4	TSM204	Structural Mechanics-II	4	0	0	12	50	50	0
5	EDP101	Entrepreneurship	2	2	0	12	100	0	0
Total			19	0	6	60	255	170	75
Total contact hours/week = 25 hrs							Total Marks=500		

Year 3, Semester I			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	EVE301	Environmental Science	4	0	2	12	45	30	25
2	DOS301	Design of Steel Structure-I	4	0	0	12	50	50	0
3	HYD201	Hydrology	4	0	2	12	35	40	25
4	DOS302	Design of Reinforced Concrete Structures- I	4	0	2	12	35	40	25
5	FED301	Soil Mechanics	4	0	2	12	35	40	25
Total			20	0	8	60	200	200	100
Total contact hours/week = 28 hrs							Total Marks=500		

Year 4, Semester II			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	PRW403	Research Project	0	2	0	24	100	0	0
2	EQE401	Earthquake Resistant Design of Structures	5	0	0	12	50	50	0
3	*******	Elective	*	*	*	*	*	*	*
4	PRW402	On the Job Training	-	-	-	12	100	0	0
5	FMH403	Hydraulics Structures & Water Power Engineering	4	0	0	12	60	40	0
Total			-	-	-	72	310	90	0
Total contact hours/week = - hrs							Total Marks=400		

Year 3, Semester II			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	DOS303	Design of Steel Structures-II	4	0	0	12	50	50	0
2	HWE301	Transportation Engineering-I	4	0	2	12	35	40	25
3	MAT311	Numerical Methods with Programming	4	0	1	12	35	40	25
4	FED302	Foundation Engineering	4	0	2	12	35	40	25
5	EVE302	Environmental Engineering	4	0	0	12	60	40	0
Total			20	0	5	60	215	210	75
Total contact hours/week = 25 hrs							Total Marks=500		

Year 4, Semester I			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	DOS404	Design of Reinforced Concrete Structures-II	4	0	0	12	50	50	0
2	MGT401	Project Management	4	0	0	12	50	50	0
3	BPD403	Estimating Costing and Tendering	4	0	0	12	50	50	0
4	HWE402	Transportation Engineering II	4	2	0	12	35	40	25
5	PRW403	Research Project	0	2	0	0	0	0	0
Total			16	4	0	48	185	190	25
Total contact hours/week = 20 hrs							Total Marks=400		

7.2 3-year Degree Programme in Civil Engineering for In-Service or equivalent qualification

The lateral entry course for an In-service of diploma or equivalent qualification in a relevant field to enter directly in the second year of the civil engineering program, accelerating their career path to a degree course. This provides a streamlined pathway for professionals already working in the field to join an engineering program, enabling to leverage their practical experience and skills towards earning a degree efficiently.

8 Specific Objectives of the Degree Programme in Architecture

Architecture Graduates are expected to be able to:

- Develop designs in line with context and historical background fulfilling both aesthetic and technical requirements.
- Conduct research to enhance the quality of built environment.
- Promote traditional Bhutanese architecture.
- Integrate modern technologies harmoniously with traditional architectural features.
- Communicate effectively on technical, spatial, and conceptual aspects of one's design through various representation and media.
- Execute design and construction projects with quality, professional standards and ethics.
- Design spaces and structures that are innovative, creative and utilitarian.
- Work collaboratively as an effective team member.

Elective			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	GIS401	Geographic Information System and Applications	3	0	3	12	35	40	25
2	DOS406	Pre-stressed Concrete Structures	5	1	0	12	50	50	0
3	DOS407	Design of Masonry and Timber Structures	5	0	0	12	60	40	0
4	DOS408	Rehabilitation and Maintenance of structure	4	0	0	12	50	50	0
5	BPD404	Sustainable Building Planning and Design	5	0	0	12	50	50	0
6	HWE403	Slope Stability on Mountain Roads	4	0	0	12	50	50	0

8.1 Semester wise modules for the 5-year Degree programme in Architecture

Year-1 Semester I

#	Code	Module	Contact Hours			Credit	Marks			
							Theory		Studio	
			L	T	P/S		CA	EX	CA	EX
1	THD101	Fundamentals of Architecture	2	0	2	12	50	50	0	0
2	MAT103	Mathematics	3	1	0	12	50	50	0	0
3	AGR101	Architectural Drawing	2	0	3	12	0	0	50	50
4	AGR102	Arts and Graphics-I	1	0	3	12	0	0	100	0
5	ACS101	Academic Skills	3	1	0	12	100	0	0	0
6	DZG101	Dzongkha Communication	3	1	0	12	70	30	0	0

Total	14	3	8	72	270	130	150	50
	25				600			

Year-1 Semester II

#	Code	Module	Contact Hours			Credit	Marks			
							Theory		Studio	
			L	T	P/S		CA	EX	CA	EX
1	ADE101	Architectural Design-I	1	0	9	24	0	0	60	40
2	BLC101	Building Construction-I	2	0	3	12	0	0	100	0
3	BSS101	Climate Responsive Architecture	3	1	0	12	50	50	0	0
4	HTA101	History of Architecture-I	3	1	0	12	50	50	0	0
5	AGR103	Arts and Graphics-II	1	0	3	12	0	0	100	0
Total			**10**	**2**	**15**	**72**	**100**	**100**	**260**	**40**
			27				**500**			

Year-2 Semester I

#	Code	Module	Contact Hours			Credit	Marks			
							Theory		Stud. /Prac.	
			L	T	P/S		CA	EX	CA	EX
1	ADE202	Architectural Design-II	1	0	9	24	0	0	60	40
2	BLC202	Building Construction-II	2	0	3	12	0	0	60	40
3	HTA202	History of Architecture-II	3	1	0	12	50	50	0	0
4	SUR203	Surveying	3	0	3	12	35	40	25	0
Total			**9**	**1**	**15**	**60**	**85**	**90**	**145**	**80**
			25				**400**			

Year-2 Semester II

#	Code	Module	Contact Hours			Credit	Marks			
							Theory		Studio	
			L	T	P/S		CA	EX	CA	EX
1	ADE203	Architectural Design-III	1	0	9	24	0	0	60	40
2	BLC203	Building Construction-III	2	0	3	12	0	0	60	40
3	BSS202	Water Supply & Sanitation	3	1	0	12	50	50	0	0
4	TSM205	Design of Structures-I	3	1	1	12	50	50	0	0
5	AGR204	Computer Applications in Architecture	1	0	3	12	0	0	100	0
Total			**10**	**2**	**16**	**72**	**100**	**100**	**220**	**80**
			28				**500**			

Year-3 Semester I

#	Code	Module	Contact Hours			Credit	Marks			
							Theory		Studio	
			L	T	P/S		CA	EX	CA	EX
1	ADE304	Architectural Design-IV	1	0	9	24	0	0	60	40
2	BSS303	Building Acoustics and Fire Safety	3	1	0	12	50	50	0	0
3	TSM306	Design of Structures-II	3	1	0	12	50	50	0	0

4	EDP101	Entrepreneurship	2	2	0	12	80	20	0	0
Total			**9**	**4**	**9**	**60**	**180**	**120**	**60**	**40**
			22				**400**			

Year-3 Semester II

#	Code	Module	Contact Hours			Credit	Marks			
			L	T	P/S		Theory		Studio	
							CA	EX	CA	EX
1	ADE305	Architectural Design-V	1	0	9	24	0	0	60	40
2	BSS304	Electrical & HVAC system	3	1	0	12	50	50	0	0
3	THD302	Bhutanese Architecture	3	1	0	12	50	50	0	0
4	THD303	Landscape Design	2	0	3	12	35	40	25	0
5	THS301	Housing and Community Planning	3	1	0	12	50	50	0	0
Total			**12**	**3**	**12**	**72**	**130**	**140**	**85**	**40**
			27				**500**			

Year-4 Semester I

#	Code	Module	Contact Hours			Credit	Marks			
			L	T	P/S		Theory		Studio	
							CA	EX	CA	EX
1	ADE406	Housing Design Studio	1	0	9	24	0	0	60	40
2	BLC404	Working Drawing	1	0	3	12	0	0	100	0
3	THD404	Interior Design	2	0	3	12	0	0	100	0
4	THS402	Urban Planning	3	1	0	12	50	50	0	0
Total			**7**	**1**	**15**	**60**	**50**	**50**	**260**	**40**
			23				**400**			

Year-4 Semester II

#	Code	Module	Contact Hours			Credit	Marks			
			L	T	P/S		Theory		Studio	
							CA	EX	CA	EX
1	PRW405	Internship	0	0	0	12	0	0	40	60
Total			**0**	**0**	**0**	**12**	**0**	**0**	**40**	**60**
			0				**100**			

Year-5 Semester I

#	Code	Module	Contact Hours			Credit	Marks			
			L	T	P/S		Theory		Studio	
							CA	EX	CA	EX
1	ADE507	Urban Design Studio	1	0	9	24	0	0	60	40
2	MGT502	Professional Practice and Ethics	3	1	0	12	50	50	0	0
3	BPD403	Estimation, Costing and Tendering	3	2	0	12	50	50	0	0

4	***	Elective-I	*	*	*	12	*	*	*	*
5	PRW506	Architectural Project	0	0	0	0	0	0	0	0
Total			**7**	**3**	**9**	**60**	**100**	**100**	**60**	**40**
			19*				**300***			
*Refer to Module Descriptor										

Year-5 Semester II

#	Code	Module	Contact Hours			Credit	Marks			
							Theory		Studio	
			L	T	P/S		CA	EX	CA	EX
1	MGT401	Project Management	3	1	0	12	50	50	0	0
2	****	Elective-II	*	*	*	12	*	*	*	*
3	PRW506	Architectural Project	0	0	0	36	0	0	60	40
Total			**3**	**1**	**0**	**60**	**50**	**50**	**60**	**40**
			4*				**200***			
*Refer to Module Descriptor										

Electives for Architecture Programme

Programme will offer the electives based on the following selection procedures:

1. Student can choose the electives based on their interest.
2. At least 50% of the class should choose the particular module.

Elective-I

#	Code	Module	Contact Hours			Credit	Marks			
							Theory		Studio	
			L	T	P/S		CA	EX	CA	EX
1	THD505	Vernacular Architecture	3	1	0	12	100	0	0	0
2	THD506	Contemporary Architecture	3	1	0	12	50	50	0	0
3	THS503	Real Estate development	3	1	0	12	50	50	0	0
4	THD507	Disaster Management and Resilience	3	1	0	12	50	50	0	0
5	HTA503	Heritage Conservation-I	3	1	0	12	100	0	0	0

Elective-II

#	Code	Module	Contact Hours			Credit	Marks			
							Theory		Studio	
			L	T	P/S		CA	EX	CA	EX
1	BPD404	Sustainable Building Planning and Design	3	0	0	12	50	50	0	0
2	HTA504	Heritage Conservation-II	3	1	0	12	100	0	0	0
3	THD508	Ergonomics and Product Design	3	1	0	12	100	0	0	0
4	ZHU501	འབྲུག་ཀྱི་ཐྲིམ་བཟོ་རིག་པ། (Bhutanese Astrology and Architecture)	3	2	0	12	50	50	0	0

8 Specific Objectives of the Degree Programme in Electrical Engineering

Upon successful completion of the Bachelor of Engineering in Electrical Engineering, the graduates are expected to have the ability to:

1. Apply scientific and technical knowledge in the field of electrical engineering.
2. Design electrical networks for power systems and industrial applications.
3. Mitigate electrical engineering problems.
4. Give expert services in the field of renewable energy generation and integrations.
5. Evaluate the professional, ethical and social issues related to electricity.
6. Demonstrate interpersonal skills such as cooperation, negotiation, teamwork and leadership.
7. Build an educational foundation to pursue career / higher studies in engineering and entrepreneurship.

8.1 Semester wise modules for the 4-year Degree Programme in Electrical Engineering

Year 1, Semester I			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	MAT101	Calculus and Infinite Series	5	0	0	12	50	50	0
2	PHY101	Engineering Physics-I	4	0	2	12	35	40	25
3	CPL101	Introduction to Programming	3	0	3	12	35	30	35
4	EWP101	Electrical Workshop Practice	2	0	3	12	50	0	50
5	ACS101	Academic Skills	3	1	0	12	100	0	0
6	EGP101	Engineering Graphics	1	0	6	12	60	40	0
	Total contact hours/week = 33 hrs					Total Marks=600			

Year 1, Semester II			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	MAT102	Multivariate Calculus, Differential Equations and Matrices	5	0	0	12	50	50	0
2	EEM101	Electrical and Electronics Engineering materials	3	0	0	12	50	50	0
3	TSM101	Engineering Mechanics	4	0	0	12	50	50	0
4	CHE101	Engineering Chemistry	4	0	2	12	35	40	25
5	MGT401	Project Management	4	0	0	12	50	50	0
6	DZG101	Dzongkha for Communication	3	1	0	12	70	30	0
	Total contact hours/week = 26 hrs					Total Marks=600			

Year 2, Semester I			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	MAT204	Complex Analysis, Fourier Series and PDE	5	0	0	12	50	50	0
2	ISM201	Instrumentation System	3	0	2	12	35	40	25
3	CKT201	Circuit Theory -I	3	1	2	12	35	40	25

4	ECD201	Electronic Circuits and Devices - I	3	1	2	12	35	40	25
5	ECD202	Digital electronics & logic design	3	0	2	12	35	40	25
	Total contact hours/week = 27 hrs					Total Marks=500			

Year 2, Semester II			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	MAT209	Transforms and Testing of Hypothesis	5	0	0	12	50	50	0
2	EFT201	Electromagnetic Field Theory	4	0	0	12	50	50	0
3	CKT202	Circuit Theory-II	3	1	0	12	50	50	0
4	ECD203	Electronic Circuits and Devices-II	3	1	2	12	35	40	25
5	SNP201	Signal and Systems	3	1	1	12	50	50	0
	Total contact hours/week = 24 hrs					Total Marks=500			

Year 3, Semester I			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	PSS301	Power Generation	4	1	0	12	50	50	0
2	FMH302	Hydraulics and Hydraulics Machines	3	1	0	12	50	50	0
3	EMC201	Electrical Machine-I	3	1	2	12	35	40	25
4	ELE303	Power Electronics	3	0	2	12	35	40	25
5	MAT311	Numerical Methods with Programming	4	0	1	12	35	40	25
	Total contact hours/week = 25 hrs					Total Marks=500			

Year 3, Semester II			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L/FC	T	P		CA	EX	CA
1	ECD304	Microprocessor and Microcontroller	3	0	2	12	35	40	25
2	EMC302	Electrical Machines- II	3	1	2	12	35	40	25
3	CTS401	Control Systems	3	0	2	12	35	40	25
4	RET403	Energy Economics Policy and Management	3	1	0	12	50	50	0
5	PSS302	Power Transmission and Distribution	3	1	0	12	50	50	0
	Total contact hours/week = 24 hrs					Total Marks=500			

Year 4, Semester I, Major I			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	PSS403	Switchgear and Protection	3	1	2	12	35	40	25

2	PSS404	Power System Analysis	3	1	2	12	35	40	25
3	PRW403	Research Project	-	-	-	24	100	0	0
4	--	Major I /Major II				12			
5	--	Minor				12			
							Total Marks: 500		

Year 4, Semester II, Major I			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	PSS405	High Voltage Engineering	3	0	2	12	35	40	25
2	PRW403	Research Project	-	-	-	24	100	0	0
3	PRW402	On the Job Training	-	-	-	12	100	0	0
4	--	Major I /Major II				12			
5	--	Major I /Major II				12			
							Total Marks: 500		

Major I: Power System Engineering

Year 4, Semester I, Major I			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	PSS406	Smart Grid Technologies	3	1	0	12	50	50	0
2	EMC403	Electrical Machine Design	3	1	0	12	50	50	0
3	PSS407	Advanced Power System Protection	3	1	2	12	35	40	25
4	PSS408	Power Quality and Reliability Analysis	3	1	0	12	60	40	0
5	PSS409	AI Application in Power Systems	3	1	0	12	60	40	0
6	PSS410	Power System Operation and Control	3	1	0	12	60	40	0

Major II: Renewable Energy Engineering

Year 4, Semester I, Major I			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	RET401	Solar Energy Fundamentals and Application	3	1	2	12	35	40	25
2	RET402	Alternate Energy Technologies and Energy Storage	3	0	2	12	35	40	25
3	RET404	Integration of Renewable Energy into Grid	3	1	0	12	50	50	0
4	RET405	Hydropower Resource Assessment and Design	3	1	0	12	50	50	0

5	ECE402	Energy Auditing and Efficiency	3	1	0	12	50	50	0
6	ELE404	Industrial Drive and Electric Vehicle Drives	3	1	2	12	50	50	0

Minor Modules: Renewable Energy Engineering

Year 4, Semester I, Major I			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	EDP101	Entrepreneurship	3	1	0	12	100	00	0
2	MIM301	Industrial Engineering & Production Management	3	0	0	12	50	50	0
3	MIM402	Total Quality Management	4	0	0	12	50	50	0
4	EWP 402	Electrical Installation and Design for Buildings	3	1	0	12	70	30	0
5	CTE207	Artificial Intelligence	3	0	0	12	60	40	0

8.2 3-year Degree Programme in Electrical Engineering for the in-service or equivalent qualification

The lateral entry course for an In-service of diploma or equivalent qualification in a relevant field to enter directly in the second year of the Electrical engineering program, accelerating their career path to a degree course. This provides a streamlined pathway for professionals already working in the field to join an engineering program, enabling to leverage their practical experience and skills towards earning a degree efficiently.

9 Specific Objectives of the Degree Programme in Electronics and Communication Engineering

Upon successful completion of the programme, graduates will be able to:

1. conduct experiments and investigate electronic components and communication system behaviour
2. identify, formulate and solve complex problems to achieve demonstrated conclusions using mathematical principles and engineering sciences
3. design, implement the electronic equipment, operate the telecommunication systems; manage, consult, and provide technical support on electronic and telecommunication products and projects
4. design system components that meet the requirement of public safety and offer solutions to the societal and environmental concerns
5. conduct research, have critical thinking and creativity, have ability to self-learning and study electronics and telecommunications
6. develop mathematical models, and deploy appropriate techniques and IT tools to design advanced control systems and associated instrumentation for problems
7. apply the contextual knowledge to assess societal, health, safety and cultural issues and endure the consequent responsibilities relevant to the professional engineering practice
8. collaborate effectively within teams applying effective oral, written and visual communication skills to present a coherent and sustained argument
9. plan and develop an independent research project that utilises appropriate research methodologies
10. apply entrepreneurial knowledge and skills to explore tech-based business opportunities and develop a business proposal for creating employment opportunities.

9.1 Semester wise modules for the 4-year Degree Programme in Electronics and Communication Engineering

Year 1, Semester I			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	MAT101	Calculus and Infinite Series	5	0	0	12	50	50	0
2	PHY101	Engineering Physics-I	4	0	2	12	35	40	25
3	CPL101	Introduction to Programming	3	0	3	12	35	30	35
4	EWP101	Electrical Workshop Practice	2	0	3	12	50	0	50
5	ACS101	Academic Skills	3	1	0	12	100	0	0
6	EGP101	Engineering Graphics	1	0	6	12	60	40	0
	Total contact hours/week = 33 hrs					Total Marks=600			

Year 1, Semester II			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	MAT102	Multivariate Calculus, Differential Equations and Matrices	5	0	0	12	50	50	0
2	EEM101	Electrical and Electronics Engineering materials	3	0	0	12	50	50	0
3	TSM101	Engineering Mechanics	4	0	0	12	50	50	0
4	CHE101	Engineering Chemistry	4	0	2	12	35	40	25
5	MGT401	Project Management	4	0	0	12	50	50	0
6	DZG101	Dzongkha for Communication	3	1	0	12	70	30	0
	Total contact hours/week = 26 hrs					Total Marks=600			

Year 2, Semester I			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	MAT204	Complex Analysis, Fourier Series and PDE	5	0	0	12	50	50	0
2	ISM201	Instrumentation System	3	0	2	12	35	40	25
3	CKT201	Circuit Theory -I	3	1	2	12	35	40	25
4	ECD201	Electronic Circuits and Devices - I	3	1	2	12	35	40	25
5	ECD202	Digital electronics & logic design	3	0	2	12	35	40	25
	Total contact hours/week = 27 hrs					Total Marks=500			

Year 2, Semester II			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	MAT209	Transforms and Hypothesis Testing	5	0	0	12	50	50	0
2	EFT201	Electromagnetic Field Theory	4	0	0	12	50	50	0
3	CKT202	Circuit Theory-II	3	1	0	12	50	50	0
4	ECD203	Electronic Circuits and Devices-II	3	1	2	12	35	40	25
5	SNP201	Signal and Systems	3	1	1	12	50	50	0
	Total contact hours/week = 24 hrs					Total Marks=500			

Year 3, Semester I			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	ECD304	Microprocessor and Microcontroller	3	0	2	12	35	40	25
2	CTE201	Computer Organization and Architecture	3	0	0	12	60	40	0
3	MAT205	Statistics and Theory of Probability	4	0	0	12	50	50	0
4	RFM301	Antenna and Wave Propagation	3	0	2	12	35	40	25
5	SNP302	Digital Signal Processing	3	0	2	12	35	40	25
	Total contact hours/week = 22 hrs					Total Marks=500			

Year 3, Semester II			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	ECD305	Electronic System Design	1	0	0	12	30	0	70
2	NWC201	Computer Communication Networks	3	0	3	12	35	30	35
3	CTE202	Data Structures and Algorithms	3	0	3	12	35	30	35
4	CME301	Analog Communication Engineering	3	0	2	12	35	40	25
5	CTS401	Control System	3	0	2	12	30	40	25
	Total contact hours/week = 23 hrs					Total Marks=500			

Year 4, Semester I

Code	Module	Credit	Contact Hours per Week			Marks/Semester		
						Theory		Pract
			L	T	P	CA	SEE	CA
RFM402	Radio Frequency and Microwave Engineering	12	3	0	2	35	40	25
ECD407	Analog VLSI Circuits	12	3	0	2	35	40	25

--	Major I/Major II							
--	Minor							
PRW403	Research Project	0	0	0	0	100	0	0
Total						500		

Year 4, Semester II

Code	Module	Credit	Contact Hours per Week			Marks/Semester		
						Theory		Pract
			L	T	P	CA	SEE	CA
ECD408	Embedded Systems	12	4	0	0	50	50	
--	Major I/Major II							
--	Major I/Major II							
PRW402	On the Job Training	12	0	0	0	100	0	0
PRW403	Research Project	24	0	0	0	100	0	0
Total						500		

Major I			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	ECD406	Advanced Microcontrollers	3	0	2	12	35	40	25
2	ECD409	Embedded Programming (ARM/STM)	4	0	2	12	35	40	25
3	CTE311	Digital Image Processing	3	0	3	12	50	30	20
4	MIS402	Sensor Networks	4	0	0	12	50	50	0
Major II			**Contact Hours**			**Credit**	**Marks**		
							Theory		**Pract**
#	**Code**	**Module**	**L**	**T**	**P**		**CA**	**EX**	**CA**
1	CME402	Digital Communication Engineering	3	0	2	12	35	40	25
2	CME403	Wireless Communication System	4	0	0	12	50	50	0
3	CME404	Fiber Optics Communication	3	0	2	12	35	40	25
4	CME405	Satellite Communication Engineering	4	0	0	12	50	50	0
Minor Modules			**Contact Hours**			**Credit**	**Marks**		
							Theory		**Pract**
#	**Code**	**Module**	**L**	**T**	**P**		**CA**	**EX**	**CA**

1	EDP101	Entrepreneurship	3	1	0	12	100	0	0
2	MIM301	Industrial Engineering & Production Management	3	0	0	12	50	50	0
3	MIM402	Total Quality Management	4	0	0	12	50	50	0
4	EWP402	Electrical Installation and Design for Buildings	3	1	0	12	70	30	0
5	CTE207	Artificial Intelligence	3	0	0	12	60	40	0

10 Specific Objectives of the Degree Programme in BE IT Programme

On completion of the programme, graduates will be able to:

1. Apply computing, science, and mathematics principles to solve complex IT engineering problems.
2. Analyse the problem, identify and define the computing requirements appropriate to the solution and apply computational approaches to the problem-solving process.
3. Design, implement, and evaluate computing-based systems in the IT discipline to meet specified requirements.
4. Use appropriate and emerging technologies to improve the performance of systems and discover the cause of performance problems in a system.
5. Perform system integration and API-based architecture development.
6. Demonstrate an understanding of security issues in the design and administration of computer networks and develop proficiency in the defence of network and system integrity.
7. Develop and conduct appropriate experimentation, analyse and interpret data, and use engineering judgment to draw conclusions.
8. Appraise innovative solutions to address real-life problems by developing predictive systems using machine learning and data analytic tools.
9. Recognise ethical and professional responsibilities in IT solutions within global, economic, environmental, and societal contexts.
10. Apply entrepreneurial knowledge and skills to explore tech-based business opportunities and develop a business proposal for creating employment opportunities.
11. Collaborate in multi-disciplinary groups to address technology-related challenges and achieve common goals.
12. Communicate effectively technical information to diverse audiences with clarity and purpose.
13. Evaluate the project requirements and associated risks to develop an effective project plan and implement the project within the organisational constraints.

10.1 Semester wise modules for the 4-year Degree Programme in IT Engineering

Year 1 Semester I			Credit	Contact Hours			Marks		
							Theory		Pract
#	Code	Module		L	T	P	CA	EX	CA
1	MAT101	Calculus and Infinite Series	12	5	0	0	50	50	0
2	PHY101	Engineering Physics-I	12	4	0	2	35	40	25
3	DZG101	རྩོང་ཁ་བད་དོན་སྒྲུབ་ལེན།	12	3	1	0	70	30	0
4	CPL101	Introduction to Programming	12	3	0	3	35	30	35

5	ACS101	Academic Skills	12	3	1	0	100	0	0

Year 1 Semester II			Credit	Contact Hours			Marks		
							Theory		Pract
#	Code	Module		L	T	P	CA	EX	CA
1	CPL102	Object-Oriented Programming	12	3	0	3	35	30	35
2	CTE205	Operating Systems	12	3	0	0	60	40	0
3	MAT110	Discrete Mathematics	12	3	1	0	50	50	0
4	DIS101	Database Systems	12	3	0	3	35	30	35
5	ECD202	Digital Electronics and Logic Design	12	3	0	2	35	40	25

Year 2 Semester I			Credit	Contact Hours			Marks		
							Theory		Pract
#	Code	Module		L	T	P	CA	EX	CA
1	CTE201	Computer Organization & Architecture	12	3	0	0	60	40	0
2	CTE202	Data Structures & Algorithms	12	3	0	3	35	30	35
3	MAT205	Statistics & Theory of Probability	12	3	1	0	50	50	0
4	NWC201	Computer Communication Networks	12	3	0	3	35	30	35
5	CTE203	Human-Computer Interaction	12	3	0	0	60	40	0

Year 2 Semester II			Credit	Contact Hours			Marks		
							Theory		Pract
#	Code	Module		L	T	P	CA	EX	CA
1	CTE204	Web Application Development	12	3	0	3	35	0	65
2	MAT206	Computational Mathematics	12	4	1	0	50	50	0
3	CTE206	Software Engineering	12	3	0	0	60	40	0
4	CTE207	Artificial Intelligence	12	3	0	0	60	40	0
5	NWC202	Introduction to the IoT	12	3	0	3	35	30	35

Year 3 Semester I			Credit	Contact Hours			Marks		
							Theory		Pract
#	Code	Module		L	T	P	CA	EX	CA
1	ITM301	Professionalism and Ethics in IT	12	3	0	0	60	40	0
2	CTE308	Mobile Application Development	12	3	0	3	35	0	65
3	CTE309	Machine Learning	12	3	0	3	35	30	35
4	EDP101	Entrepreneurship	12	2	2	0	80	20	0
5	ITM302	System Administration	12	3	0	3	35	30	35

Year 3 Semester II			Credit	Contact Hours			Marks		
							Theory		Pract
#	Code	Module		L	T	P	CA	EX	CA
1	DIS302	Data Analytics	12	3	0	3	35	30	35
2	DIS303	Cryptology	12	3	0	3	35	30	35
3		Elective I	12	3	0	3	35	30	35
4	ITM304	IT Project Management	12	3	0	0	60	40	0
5	PRW301	Introduction to Research	12	2	0	0	100	0	0

Year 4 Semester I			Credit	Contact Hours			Marks		
							Theory		Pract
#	Code	Module		L	T	P	CA	EX	CA
1	DIS404	Advanced Database Systems	12	3	0	0	60	40	0
3	DIS405	Information Security	12	3	0	0	60	40	0
4	CTE412	Integrated Systems Technology	12	3	0	3	35	30	35
5		Elective II	12	3	0	3	35	30	35
6	IRP401	Industry Research Project Proposal	12	3	0	0	100	0	0

Year 4 Semester II			Credit	Contact Hours			Marks		
							Theory		Pract
#	Code	Module		L	T	P	CA	EX	CA
1	IRP402	Industry Research Project	48	5	0	0	100	0	0
2	ONL401	Online Courses	12	0	0	0	100	0	0

Elective I	Module
NWC303	Advanced Routing
CTE310	Natural Language Processing
CTE311	Digital Image Processing
Elective II	Module
NWC404	Network Security
ITM403	Advanced System Administration
DIS406	Blockchain Technology

10.2 Three-year BE in IT Engineering programme for the In-service or equivalent qualification

The lateral entry course for an In-service of diploma or equivalent qualification in a relevant field to enter directly in the second year of the IT engineering program, accelerating their career path to a degree course. This provides a streamlined pathway for professionals already working in the field to join an engineering program, enabling to leverage their practical experience and skills towards earning a degree efficiently.

11 Specific Objectives of the Degree Programme in Engineering Geology

Upon successful completion of the programme, graduates will be able to:

1. explain the physics of the earth's interior with emphasis on earth's structure, physics of minerals and compositional models
2. describe the geological processes leading to types of land forms and resources in Bhutan
3. analyse the interaction between natural environment and the climate
4. compute earthquake hazards and its effects using different methods for planning the construction projects
5. define the fundamental elements of engineering seismology in relation to seismic hazards
6. identify structural geology and rock deformation due to planet earth plate motions
7. apply the principles of Geo-environmental Engineering and Geotechnical aspects for planning and design of hazardous waste landfills
8. assess the terrain with reference to geomorphological processes to provide engineering solutions
9. explain the variation in the occurrence, movement, and distribution of ground water hydrology system
10. carry out detailed geophysical surveys and site investigation on soil and rock through field tests and prepare geotechnical or engineering geology reports
11. identify the various hazards and apply risk management techniques for emergency and crisis management
12. execute the underground tunnelling techniques and solve the complexity of underground excavations

13. communicate effectively through different mediums for both technical and non-technical audiences
14. engage stakeholders through collaborative initiatives

11.1 Semester wise modules for 4-year Degree Programme in Engineering Geology

Year 1, Semester I			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	MAT101	Calculus and Infinite Series	5	0	0	12	50	50	0
2	STG101	Earth Science and Physical Geology	4	0	0	12	100	0	0
3	SUR201	Principles of Surveying-I	3	0	3	12	35	40	25
4	DZG101	རྫོང་ཁ་བད་དྲྭ་སྒྲུབ་ལེན།	4	0	0	12	70	30	0
5	CHE101	Engineering Chemistry	4	0	2	12	35	40	25
Total			20	0	5	60	290	160	50
Total contact hours/week = 25 hrs							Total Marks=500		

Year 1, Semester II			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	MAT102	Multivariate Calculus, Differential Equations and Matrices	5	0	0	12	50	50	0
2	CPL103	Introduction to Python Programming	3	0	3	12	35	40	25
3	ACS101	Academic Skills	3	1	0	12	100	0	0
4	PHY101	Engineering Physics-I	4	0	2	12	35	40	25
5	MNG101	Minerology	4	0	2	12	100	0	0
Total			19	1	7	60	320	130	50
Total contact hours/week = 27 hrs							Total Marks=500		

Year 2, Semester I			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L/FC	T	P		CA	EX	CA
1	MAT204	Complex Analysis, Fourier Series and PDE	5	0	0	12	50	50	0
2	STG202	Geology of the Bhutan Himalaya	2	0	0	12	50	50	0
3	GEE201	Principles of Geotechnical Engineering	4	0	2	12	35	40	25
4	CAD201	CAD Applications	0	0	3	12	0	0	100

5	STG203	Petrology	3	0	2	12	35	40	25
Total			14	0	7	60	170	180	150
Total contact hours/week = 21 hrs							Total Marks=600		

Year 2, Semester II			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L/FC	T	P		CA	EX	CA
1	MAT207	Fourier Transform, Statistics and Probability	4	0	1	12	35	40	25
2	STG204	Elementary Structural Geology and Tectonics	3	0	0	12	50	50	0
3	GEE202	Applied Geotechnical Engineering	4	0	2	12	35	40	25
4	EDP101	Entrepreneurship	3	1	0	12	100	0	0
5	STG205	Rock Mechanics-I	3	0	2	12	35	40	25
Total			17	1	5	60	255	170	75
Total contact hours/week = 23 hrs							Total Marks=500		

Year 3, Semester I			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L/FC	T	P		CA	EX	CA
1	MAT311	Numerical Methods with Programming	4	0	1	12	35	40	25
2	STG306	Structural Geology	3	0	2	12	35	40	25
3	GEE303	Applied Geophysics	4	0	0	12	50	50	0
4	GEH301	Remote Sensing and GIS	2	0	3	12	50	0	50
5	STG207	Rock Mechanics-II	4	0	0	12	50	50	0
Total			17	0	6	60	220	180	100
Total contact hours/week = 23 hrs							Total Marks=500		

Year 3, Semester II			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L/FC	T	P		CA	EX	CA
1	GEE304	Hydropower Engineering	4	0	0	12	50	50	0
2	STG308	Geological Mapping and Field Excursion	1	0	1	12	0	0	100
3	GEE305	Geotechnical Site Investigation	4	0	0	12	50	50	0
4	GEH302	Introduction to Seismology	4	0	0	12	50	50	0
5	HYD202	Hydrogeology	4	0	0	12	50	50	0
Total			17	0	1	60	200	200	100

Total contact hours/week = 18 hrs		Total Marks=500

Year 4, Semester I			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L/FC	T	P		CA	EX	CA
1	MGT401	Project Management	4	0	0	12	50	50	0
2	STG409	Tunnelling and Underground Excavation	4	0	0	12	50	50	0
3	PRW403	Research Project	-	-	-	-	0	0	0
4	GEH403	Geological Hazards	3	0	3	12	50	0	50
5	MNG402	Geological Methods in Mineral Exploration and Mining	4	0	0	12	50	50	0
Total			15	0	3	48	200	150	50
Total contact hours/week = 18 hrs							Total Marks=500		

Year 4, Semester II			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L/FC	T	P		CA	EX	CA
1	PRW402	On-the-Job Training	-	-	-	12	100	0	0
2	PRW403	Research Project	-	-	-	24	100	0	0
3	GEE406	Environmental Geotechnology	4	0	0	12	50	50	0
4	GEH404	Disaster Risk Reduction and Management	3	0	0	12	100	0	0
5	GEH405	Safety in Geological Projects	4	0	0	12	50	50	0
Total			11	0	0	72	400	100	0
Total contact hours/week = 11 hrs							Total Marks=500		

12 Specific Objectives of the Degree Programme in Instrumentation and Control Engineering

Upon successful completion of the programme, graduates will be able to:

- Identify, formulate and provide innovate solutions to instrumentation and control engineering problems at the workplace.
- Solve technical problems and be proficient in the analysis, design, test and implementation of instrumentation and control systems utilizing appropriate software and hardware tools and devices.
- Engage in research and development activities in the area of instrumentation and control.
- Respond and adapt to technological advancements.

- Communicate effectively through different mediums for both technical and non-technical audiences.
- Conduct, analyse and interpret experimental results to improve process.
- Select and apply appropriate techniques, resources and modern engineering tools including prediction and modelling to broadly defined instrumentation and control engineering activities, with an understanding of the limitations.
- Work as a team and demonstrate the ability of leadership.

12.1 Semester wise modules for 4-year Degree Programme in Instrumentation and Control Engineering

Year 1, Semester I			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	MAT101	Calculus and Infinite Series	5	0	0	12	50	50	0
2	PHY101	Engineering Physics-I	4	0	2	12	35	40	25
3	EWP101	Electrical Workshop Practice	2	0	3	12	50	0	50
4	CPL101	Introduction to Programming	3	0	3	12	35	30	35
5	ACS101	Academic Skills	3	1	0	12	100	0	0
6	EGP101	Engineering Graphics	1	0	6	12	60	40	0
	Total contact hours/week = 33 hrs					Total Marks=600			

Year 1, Semester II			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	MAT102	Multivariate Calculus, Differential Equations and Matrices	5	0	0	12	50	50	0
2	EEM101	Electrical and Electronics Engineering materials	3	0	0	12	50	50	0
3	TSM101	Engineering Mechanics	4	0	0	12	50	50	0
4	CHE101	Engineering Chemistry	4	0	2	12	35	40	25
5	MGT401	Project Management	4	0	0	12	50	50	0
6	DZG101	Dzongkha Communication	3	0	1	12	70	30	100
	Total contact hours/week = 26 hrs					Total Marks=600			

Year 2, Semester I			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	MAT204	Complex Analysis, Fourier Series and PDE	5	0	0	12	50	50	0
2	ISM201	Instrumentation System	3	0	2	12	35	40	25
3	CKT201	Circuit Theory -I	3	1	2	12	35	40	25
4	ECD201	Electronic Circuits and Devices - I	3	1	2	12	35	40	25
5	ECD202	Digital electronics & logic design	3	0	2	12	35	40	25
	Total contact hours/week = 27 hrs					Total Marks=500			

Year 2, Semester II			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	MAT209	Transforms and Hypothesis Testing	5	0	0	12	50	50	0
2	EFT201	Electromagnetic Field Theory	4	0	0	12	50	50	0
3	CKT202	Circuit Theory-II	3	1	0	12	50	50	0
4	ECD203	Electronic Circuits and Devices-II	3	1	2	12	35	40	25
5	SNP201	Signal and Systems	3	1	1	12	50	50	0
	Total contact hours/week = 24 hrs					Total Marks=500			

Year 3, Semester I			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	CTS401	Control Systems	3	0	2	12	35	40	25
2	ELE303	Power Electronics	3	0	2	12	35	40	25
3	EMC204	Introduction of Electrical Machines	4	0	2	12	35	40	25
4	MIS201	Sensors and Transducers	4	0	2	12	35	40	25
5	ECD304	Microprocessor and Microcontroller	3	0	2	12	35	40	25
	Total contact hours/week = 27 hrs					Total Marks=500			

Year 3, Semester II			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	ECD305	Electronic System Design	1	0	0	12	30	0	70
2	ISM303	Industrial Instrumentation	4	0	2	12	35	40	25
3	CIE405	Biomedical Instrumentation	4	0	0	12	50	50	0
4	CME306	Principles of Communication Engineering	3	0	2	12	35	40	25
5	FMH305	Hydraulic and Pneumatic Controls	3	1	2	12	35	40	25
	Total contact hours/week = 22 hrs					Total Marks=500			

Year 4 Semester I

Code	Module	Credit	Contact Hours per Week			Marks/Semester		
						Theory		Pract
			L	T	P	CA	SEE	CA
CAS401	PLC, HMI and SCADA	24	3	0	2	35	40	25
CAS301	Industrial Drives and Control	12	3	0	2	35	40	25
--	Major I/II	12						
--	Minor	12						
PRW403	Project Work- Research Project	0	0	0	0	100	0	0

Total contact hours/week = *	Total Marks = 500

Year 4 Semester II

Code	Module	Credit	Contact Hours per Week			Marks/Semester		
						Theory		Pract
			L	T	P	CA	SEE	CA
NWC304	Industrial Data Network	12	3	0	0	50	50	0
--	Major I/II	12						
--	Major I/II	12						
PRW402	On the Job Training	12	0	0	0	100	0	0
PRW403	Project Work	24	0	0	0	100	0	0
Total contact hours/week = *		Total Marks = 500						

Major I: Industrial Automation and Control Engineering

Year 4			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	CAS403	Process Control	4	0	0	12	50	50	0
2	CAS402	Distributed Control System	4	0	0	12	50	50	0
3	MIS403	Virtual Instrumentation and Data Acquisition	4	0	0	12	50	50	0
4	MIS402	Sensor Networks	3	1	0	12	50	50	0

Major II: Robotic

Year 4			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	ECD408	Embedded System Design	4	0	0	12	50	50	0
2	ECD406	Advanced Microcontrollers	3	0	2	12	35	40	25
3	CTS406	Mechatronics	4	0	0	12	50	50	0
4	CTS403	Robotics Control System	4	0	0	12	50	50	0

Minor Modules

Year 4			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	EDP101	Entrepreneurship	4	2	0	12	80	20	0
2	MIM301	Industrial Engineering & Production Management	3	0	0	12	50	50	0
3	MIM402	Total Quality Management	4	0	0	12	50	50	0
4	EWP402	Electrical Installation and Design for Buildings	3	0	0	12	75	25	0

5	CTE207	Artificial Intelligence	3	0	0	12	70	30	0

13. Specific Objectives of the Degree Programme in Water Resources Engineering

On completion of the programme, graduates will be able to:

1. determine the quantity and quality of water and carry out mapping of the surface, and groundwater sources.
2. plan and design hydraulic structures and systems.
3. operate and maintain hydraulic structures and systems.
4. implement effective practices in watershed, wetland and river basin management.
5. integrate climate resilience in the design of water and river management systems.
6. apply water system modelling in water resources management.
7. plan, develop and conduct research projects through appropriate experimentation, analysis and interpretation of data.
8. partake in teamwork by applying effective oral, written and visual communication skills.
9. apply entrepreneurial knowledge and analytical skills to explore tech-based business opportunities and develop business proposals.
10. Engage with stakeholders and communities to develop solutions to local problems.

13.1 Semester wise modules for 4-year Degree Programme of Water Resources Engineering

Year 1 Semester I			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	MAT101	Calculus and Infinite Series	5	0	0	12	50	50	-
2	TSM101	Engineering Mechanics	4	0	0	12	50	50	-
3	CHE101	Engineering Chemistry	4	0	2	12	35	40	25
4	DZG101	རྩོང་ཁ་བད་དེབ་སློབ་ལེན།	4	0	0	12	70	30	-
5	SUR201	Principles of Surveying-I	3	0	3	12	35	40	25
Total			20	0	5	60	240	210	50
Total Contact hours/week			**25**				**Total Marks**		**500**

Year 1 Semester II			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	MAT102	Multivariate Calculus, Differential Equations and Matrices	5	0	0	12	50	50	-
2	PHY101	Engineering Physics-I	4	0	2	12	35	40	25
3	EDP101	Entrepreneurship	4	0	0	12	100	0	-
4	CPL103	Introduction to Python Programming	3	0	3	12	35	40	25

5	ACS101	Academic Skills	3	1	0	12	100	-	-
Total			19	1	5	60	320	130	50
Total Contact hours/week			**25**				**Total Marks**		**500**

Year 2 Semester I			**Contact Hours**			**Credit**	**Marks**		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	MAT204	Complex Analysis, Fourier Series and PDE	5	0	0	12	50	50	-
2	TSM205	Design of Structures I	3	1	0	12	40	60	-
3	FMH201	Fluid Mechanics	4	0	0	12	50	50	-
4	HYD201	Hydrology	4	0	2	12	35	40	25
5	WEM201	Introduction to water quality	4	0	2	12	35	40	25
Total			20	1	4	60	210	240	50
Total Contact hours/week			**25**				**Total Marks**		**500**

Year 2 Semester II			**Contact Hours**			**Credit**	**Marks**		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	MAT207	Fourier Transform, Statistics & Probability	4	0	1	12	35	40	25
2	FMH202	Hydraulics	4	0	2	12	35	40	25
3	FED301	Soil Mechanics	4	0	2	12	35	40	25
4	HYD302	Hydrogeology	4	0	0	12	50	50	-
5	CAD201	CAD Applications	3	0	1	12	100	0	-
Total			19	0	6	60	225	170	75
Total Contact hours/week			**25**				**Total Marks**		**500**

Year 3 Semester I			**Contact Hours**			**Credit**	**Marks**		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	MAT311	Numerical Methods with Programming	4	0	1	12	35	40	25
2	SUR304	Introduction to RS and GIS in Water Resources	4	0	2	12	75	-	25
3	HYD303	Fluvial Hydraulics and Sediment Transport	4	0	0	12	50	50	-
4	WSW301	Water Supply Systems	4	0	0	12	50	50	-

5	WEM302	Climate Change and Water Resources	4	0	0	12	40	60	-
Total			20	0	3	60	250	200	50
Total Contact hours/week			**23**				**Total Marks**		**500**

Year 3 Semester II			**Contact Hours**			**Credit**	**Marks**		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	CTE313	Machine Learning & Data Analytics	3	0	3	12	45	30	25
2	WRM301	Water Resource Modelling	3	0	3	12	75	-	25
3	WSW302	Irrigation Engineering	3	0	0	12	50	50	-
4	WSW303	Urban Drainage and Sanitation	4	0	0	12	60	40	-
5	HYD304	Flood Control & River Training Works	4	0	0	12	60	40	-
Total			17	0	6	60	290	160	50
Total Contact hours/week			**23**				**Total Marks**		**500**

Year 4 Semester I			**Contact Hours**			**Credit**	**Marks**		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	MGT401	Project Management	4	0	0	12	50	50	-
2	WRM402	Watershed Management	4	0	0	12	50	50	-
3	WSW404	Water and Wastewater Treatment Technology	4	0	0	12	50	50	-
4	WEM403	Environmental Flow Assessment	4	0	2	12	35	40	25
	PRW403	Project work	0	2	0	-	-	-	-
Total			16	0	2	48	185	190	25
Total Contact hours/week			**22**				**Total Marks**		**400**

Year 4 Semester II			**Contact Hours**			**Credit**	**Marks**		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	FMH403	Hydraulics Structures & Water Power Engineering	6	0	0	12	50	50	-
2	WSW405	Water Sustainability and Economics	6	0	0	12	50	50	-
3	WRM403	Integrated Water Resources Management	6	0	0	12	60	40	-

4	PRW402	On-The-Job Training	0	0	0	12	100	-	-
5	PRW403	Research Project	0	2	0	24	100	-	-
Total			18	2	0	72	360	140	-
Total Contact hours/week			**20**				**Total Marks**		**500**

Elective

Students can choose at the most two electives from the list below, but the elective shall be offered only if the student number opting for the elective is at least 40% of the total students registered in the semester. Otherwise, only one elective can be offered.

Year 4 Semester II			Contact Hours			**Credit**	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	WEM404	Environment Impact Assessment	6	0	0	12	50	50	-
2	WEM405	Energy Conversion and Environment	6	0	0	12	50	50	-
3	SUR405	Microwave Remote Sensing for Hydrological Applications	4	0	2	12	70	-	30
4	BPD404	Sustainable Building Planning and Design	3	0	0	12	50	50	-

14. Specific Objectives of the Degree Programme in Software Engineering (SWE)

As Software Engineering graduates, they will able be able to:

- Proficient understanding of computer science foundations and fundamentals, which includes:
    a. familiarity with common computer science themes and principles,
    b. a high-level understanding of systems as a whole,
    c. and a clear grasp of the theoretical underpinnings of computer science and their practical implications.
- Ability to work collaboratively in teams towards achieving common goals.
- Clear awareness of the need for and an ability to engage in continuing professional development.
- Individual competence in applying sound principles and rigorous thinking to (a) analyse an application problem,
    a. understand user's requirement,
    b. formulate the problem in terms of computation requirements,
    c. conceive novel solution ideas,
    d. design appropriate solutions that meet
- An ability to use the current techniques, skills, and tools necessary for software security practice.

14.1 Semester wise modules for 4-year Degree Programme of Software Engineering

Year 1 Semester I			Credit	Contact Hours			Marks		
							Theory		Pract
#	Code	Module		L	T	P	CA	EX	CA
1	DZG101	རྫོང་ཁ་བད་དེན་རྩོད་ལེན།	12	2	1	1	70	30	0
2	CSF101	Programming Methodology	12	2	0	2	60	0	40
3	SDA101	User Interface Design and Implementation	12	2	0	2	20	0	80
4	MAT205	Statistics & Theory of Probability	12	4	0	0	50	50	0
5	NWC201	Computer Communication Networks	12	3	0	3	35	30	35

Year 1 Semester II			Credit	Contact Hours			Marks		
							Theory		Pract
#	Code	Module		L	T	P	CA	EX	CA
1	MAT110	Discrete Mathematics	12	3	0	2	50	50	0
2	DBS101	Database Systems Fundamentals	12	3	0	3	70	0	30
3	WEB101	Web Application Fundamentals	12	2	0	2	60	0	40
4	WEB102	Server Application Fundamentals	12	2	0	2	65	0	35
5		Elective I	12	-	-	-	-	-	-
6	ACS101	Academic Skills	12	3	1	0	100	0	0

Year 2 Semester I			Credit	Contact Hours			Marks		
							Theory		Pract
#	Code	Module		L	T	P	CA	EX	CA
1	IDE201	Software Engineering Capstone Project	36	0	0	0	0	0	100
2	IDE202	Software Engineering Internship	24	0	0	0	0	0	100

Year 2 Semester II			Credit	Contact Hours			Marks		
							Theory		Pract
#	Code	Module		L	T	P	CA	EX	CA
1	CTE205	Operating Systems	12	3	0	0	60	40	0
2	DIS303	Cryptology	12	3	0	3	35	30	35
3	SWE201	Cross Platform Development	12	2	0	2	60	0	40
4	SDA202	System Design & Solution Architecture	12	2	0	2	60	0	40
5		Elective II	12	-	-	-	-	-	-

Year 3 Semester I			Credit	Contact Hours			Marks		
							Theory		Pract
#	Code	Module		L	T	P	CA	EX	CA
1	SWE302	Software Testing & Quality Assurance	12	2	0	2	65	0	35
2	SWE303	Software Project Management	12	2	0	2	-	-	-
3	CSF302	Algorithm Design & Analysis	12	2	0	2	40	0	60
4	WEB303	Microservices & Serverless Applications	12	2	0	2	60	0	40
5		Elective III	12	-	-	-	-	-	-

Year 3 Semester II			Credit	Contact Hours			Marks		
							Theory		Pract
#	Code	Module		L	T	P	CA	EX	CA
1	IDE303	Software Engineering Startup	12	2	0	0	50	0	50
2	CSF303	Competitive Programming	12	2	0	2	40	0	60
3	DBS302	NoSQL Database Management	12	3	0	3	35	0	60
4		Elective IV	12	-	-	-	-	-	-
5		Elective V	12	-	-	-	-	-	-

Year 4 Semester I			Credit	Contact Hours			Marks		
							Theory		Pract
#	Code	Module		L	T	P	CA	EX	CA
1	SIS401	Smart Integrated Systems	12	2	0	2	35	0	65
2	WEB404	Secure Coding Practices	12	3	0	2	50	0	50
3		Elective VI	12	-	-	-	-	-	-
4		Elective VII	12	-	-	-	-	-	-
5		Elective VIII	12	-	-	-	-	-	-

Year 4 Semester II			Credit	Contact Hours			Marks		
							Theory		Pract
#	Code	Module		L	T	P	CA	EX	CA
1	IDE404	Software Engineering Capstone Project II	36	0	0	0	0	0	100
2	IDE405	Software Engineering Internship II	24	-	-	-	-	-	100

Major I: Artificial Intelligence

Seminar			Credit	Contact Hours			Marks		
							Theory		Pract
#	Code	Module		L	T	P	CA	EX	CA
1	DAM101	Deep Learning Fundamentals	12	3	0	2	40	0	60
2	DAM202	Sequence Models	12	2	0	3	60	0	40
3	DAM303	Deep Reinforcement Learning	12	3	0	2	65	0	35
4	DAM304	Generative Artificial Intelligence	12	2	0	3	60	0	40
5	DAM405	Machine Learning Operations	12	2	0	3	60	0	40

Major II: Development Security Operations

Seminar			Credit	Contact Hours			Marks		
							Theory		Pract
#	Code	Module		L	T	P	CA	EX	CA

1	DSO101	Continuous Integration and Continuous Deployment	12	2	0	2	60	0	40
2	DSO202	Scaling, Orchestration, Monitoring & Observability	12	2	0	2	60	0	40
3	DSO303	Cloud Native Solution Design	12	2	0	2	65	0	35
4	DSO304	Cloud Infrastructure Provisioning & Configuration	12	2	0	2	60	0	40
5	DSO405	Policy Compliance & Vulnerability Management	12	2	0	2	65	0	35

Major III: Software Security

Seminar			Credit	Contact Hours			Marks		
							Theory		Pract
#	Code	Module		L	T	P	CA	EX	CA
1	SWS101	Introduction to Cybersecurity	12	3	0	2	50	0	50
2	SWS202	Penetration Testing	12	2	0	3	65	0	35
3	SWS303	Foundational Security Operations	12	3	0	2	50	0	50
4	SWS304	Advanced Web Attacks & Exploitation	12	3	0	2	50	0	50
5	SWS405	Digital Forensics	12	3	0	2	50	0	50

15. Specific Objectives of the Degree Programme in Mechanical Engineering (ME)

As Mechanical Engineering graduates, they will able be able to:

following Upon successful completion of the programme, graduates will have acquired the following skills and competencies:

a) **Structural Analysis:** Excelling in critically analysing mechanical structures and devising precise design solutions.
b) **Advanced CAD Proficiency:** Demonstrating expertise in utilizing CAD software for the comprehensive analysis, design, modelling, and drafting of intricate mechanical components.
c) **CNC Machining Expertise:** Showcasing proficiency in setting up, operating, and programming CNC machines, enabling precision machining.
d) **Production System Design:** Acquiring the knowledge and skills necessary to design and implement efficient production and manufacturing systems, tailored to the needs of mechanical elements and systems.
e) **Holistic Engineering Solutions:** Applying engineering design principles to generate innovative solutions that not only meet specified requirements but also address a spectrum of real-world considerations, including economic, environmental, social,

ethical, health and safety, manufacturability, and sustainability.

f) **Economic Analysis:** Capacity to conduct economic analyses for projects related to mechanical engineering, enabling informed decision-making.
g) **Experimental Proficiency:** Capability to design experiments, collect data, and proficiently analyse and interpret results.
h) **Manufacturing Supervision:** Ability to oversee manufacturing processes, ensuring both quality and efficiency.
i) **Maintenance and Troubleshooting:** Adeptly managing the troubleshooting and maintenance of mechanical and electro-mechanical systems and machines, ensuring optimal performance.
j) **Instrumentation and Measurement:** Competence in measuring various parameters, such as pressure, temperature, and vibration, and interpreting the obtained data accurately.
k) **Research Aptitude:** Equipped to engage in fundamental research within the relevant field, contributing to the ongoing advancements in mechanical engineering.
l) **Effective Communication:** Excellence in conveying technical and non-technical information through various mediums, effectively catering to diverse audiences.

15.1 Semester wise modules for 4-year Degree Programme of Mechanical Engineering

Year 1-Semester I			Contact Hours			Credit	Marks		
							Theory		Pract
#	Code	Module	L	T	P		CA	EX	CA
1	MAT101	Calculus and Infinite Series	5	0	0	12	50	50	0
2	PHY101	Engineering Physics-I	4	0	2	12	35	40	25
3	CHE101	Engineering Chemistry	4	0	2	12	35	40	25
4	DZG101	Dzongkha for Communication	3	1	0	12	70	30	0
5	ACS101	Academic Skills	3	1	0	12	100	0	0
6	MDD101	Mechanical Drawing	1	0	4	12	50	50	0
Total contact hours/week = 30 hrs						Total Marks=600			

Year 1-Semester II			Contact Hours			Credit	Marks		
							Theory		P
#	Code	Module	L	T	P		CA	EX	CA
1	MAT102	Multivariate Calculus, Differential Equations and Matrices	4	1	0	12	50	50	0
2	MEC101	Material science	3	0	3	12	25	50	25
3	CSF101	Programming Methodology	2	0	2	12	15	40	45
4	TSM101	Engineering Mechanics	4	0	0	12	50	50	0
5	MGT401	Project Management	4	0	0	12	50	50	0
6	MPT101	Mechanical Workshop	1	0	4	12	40	0	60

Total contact hours/week = 28 hrs	Total Marks=600

Year 2-Semester I			Contact Hours			Credit	Marks		
							Theory		P
#	Code	Module	L	T	P		CA	EX	CA
1	CKT201	Circuit Theory-I	3	1	2	12	35	40	25
2	TSM102	Strength of Materials	4	0	2	12	35	40	25
3	FMH201	Fluid Mechanics	4	0	0	12	50	50	0
4	MPT202	Manufacturing processes	3	0	2	12	25	50	25
5	ECD201	Electronic Circuits & devices I	3	1	2	12	25	40	25
Total contact hours/week = 27 hrs						Total Marks=500			

Year 2 Semester II			Contact Hours			Credit	Marks		
							Theory		P
#	Code	Module	L	T	P		CA	EX	CA
1	MAT204	Complex Analysis, Fourier Series & PDE	5	0	0	12	50	50	0
2	MEC202	Metrology	3	0	2	12	25	50	25
3	MHE201	Engineering Thermodynamics	3	0	2	12	30	50	20
4	MDD202	Design of Machine Elements	3	0	2	12	25	50	25
5	FMH202	Hydraulics	4	0	2	12	35	40	25
Total contact hours/week = 26 hrs						Total Marks=500			

Year 3-Semester I			Contact Hours			Credit	Marks		
							Theory		P
#	Code	Module	L	T	P		CA	EX	CA
1	EMC204	Introduction to Electrical Machines	4	0	2	12	35	40	25
2	MIM301	Industrial Engineering & production management	3	0	0	12	50	50	0
3	MPT303	Advanced Manufacturing Technology	3	0	2	12	25	50	25
4	MEC303	Kinematics & Dynamics of Machines	3	0	2	12	25	50	25
5	MHE302	Applied Thermodynamics	3	0	2	12	30	50	20

Total contact hours/week = 24 hrs	Total Marks=500

Year 3-Semester II			Contact Hours			Credit	Marks		
							Theory		P
#	Code	Module	L	T	P		CA	EX	CA
1	FMH305	Hydraulic and Pneumatic Controls	3	1	2	12	35	40	25
2	MAT412	Optimization Technique	4	1	0	12	50	50	0
3	MHE303	Heat & mass Transfer	3	0	2	12	25	50	25
4	MDD303	Computer Integrated Manufacturing	3	0	2	12	25	50	25
5	PRW402	On-the-job-training	-	-	-	12	-	-	-
Total contact hours/week = 21 hrs						Total Marks=500			

#	Year 4-Semester I		Contact Hours			Credit	Marks		
							Theory		P
	Code	Module	L	T	P		CA	EX	CA
1	CAS406	Mechatronics	3	1	0	12	25	50	25
2	MEC404	Automotive Engineering	3	0	2	12	25	50	25
3	PSS301	Power Generation	4	1	0	12	50	50	0
4	**Elective I**		*	*	*	12	*	*	*
5	PRW403	Research Project	7^{th} & 8^{th} sem.		1	-	Proposal presentation & 1^{st} review		20
* Refer to module descriptors						Total Marks=420			

#	Year 4-Semester II		Contact Hours			Credit	Marks		
			L	T	P		Theory		P
	Code	Name of the Module					CA	EX	CA
1	MHE404	Heating, Ventilation & Air Conditioning	3	0	2	12	25	50	25
2	MIM402	Total Quality Management	4	0	0	12	50	50	0
3	Elective II		*	*	*	12	*	*	*
4	Elective III		*	*	*	12	*	*	*

5	PRW403	Research Project	7th & 8th sem.	2	24	Ongoing Review, Report, & Guide assessment	80
* Refer to module descriptors					Total Marks=380		

List of Elective Modules

The following modules are identified to be offered as electives in the Year 4 semester II. The modality of offering elective module will based on the economic size of 10 students enrolling for a particular elective and the availability of faculty to teach.

S.N.	Module Code	Module Title	Category
1	EDP101	Entrepreneurship	Elective-I
2	MDD404	Product Development & Design	
3	ECE401	Engineering Economics	
4	CTE207	Artificial intelligence	
5	MHE405	Thermal Fluid system Design	Elective-II
6	MDD405	Tribology	
7	MIM403	Maintenance Engineering	
8	MPT405	Non-Destructive Testing	Elective-III
9	MDD406	Mechanical Vibrations	

16 Academic Program Structure

The Wheel of Academic Law of the RUB provides the basis for the academic program structure**.** Following are the essential excerpts from The Wheel of Academic Law.

Unit of Academic Credit

A unit of academic credit or a credit is a measure of 'how much', how much material has been covered, how much effort has the student expended in covering the material, how much content has been covered; it is a measure of academic volume.

In the University's programmes, a unit of academic credit shall consist of 10 hours of notional student effort. At undergraduate level it is expected that the average competent well-prepared and diligent student will spend on average 1200 hours per academic year in study. This corresponds to saying that in a year, it is to be expected that a student will be able to complete academic studies to the equivalent of 120 academic credits.

In summary:

A unit of academic credit = 10hrs of notional student effort.
A full time undergraduate year = 120 academic credits.

The Module

For simplicity and consistency of nomenclature the term module is used to describe a unit of curricular study that has an identifiable set of aims, specified pre-requisite knowledge, curriculum and assessment. This is commonly called, subject, unit, component or course.

Teaching /Learning Approach

The teaching /learning approach focuses on the development of various skills.

Classroom teaching is done in the form of lectures, demonstrations using appropriate teaching aids. This is supported by tutorial sessions to clarify doubts of the students and help weak or slow learners.

Knowledge is developed through lectures, seminars, assignments, projects, industrial visits and use of ICT.

Thinking skills are developed through analytical assessment of data, critical assessment of information and problem solving with practical applications.

Practical skills are developed through laboratory and experimental work, drawing and design, field courses and site visits, industrial tour and on the job training.

Skills for life and work are developed through interactive communication exercises, individual and group work.

OJT: On-the-job-training imbibes the real life professional training and development of students. OJT is performed during the winter vacation after the seventh semester. Placement of students for OJT is undertaken by the office of the Dean-Research and Industrial Linkages. Upon completing the OJT, students are required to submit a report and also present their learning in the form of a seminar.

Self-study: Every module requires time for self-study. This time period is reflected in the modules. Self-study time is counted while assigning credit points to the modules. Hence a student should not fully depend on the lectures and tutorial sessions, but go to the library, surf the internet to explore new
learning in the respective field. All these count to the time devoted to study the subject and hence contribute to the credit points.

Assignment: Assignments are given to the students to evaluate their learning and to keep them abreast with the topic/ module. It is an instrument for a student to gauge their learning outcomes. Students are required to maintain punctuality & quality and avoid plagiarism & procrastination while undertaking the assignments. The assignments are evaluated and the marks obtained are added to the internal assessment profile

Basic Competency

Apart from the academic success, every student is required to achieve basic competency in the following areas.

- English
- Dzongkha
- Information and Technology

The details about these can be obtained from the respective module tutor.

17 Assessment Regulations

Status: Approved by the 5th Academic Board Meeting in August 2005. Additional section on Appeals approved by the 7th Academic Boarding Meeting in April 2006.Revisions to the regulation approved by the 18th Academic Board Meeting in January 2010 and the 21st Academic Board Meeting in February 2011.

17.1 The authority for approving programmes and granting awards rests with the Academic Board. These regulations provide the structure within which students shall be assessed

and whereby their assessment contributes to their award. Each University student is enrolled on a programme and is subject to the regulations of that programme, which in its turn is subject to the University's overall policy and regulations.

17.2 An award will be conferred upon satisfaction of the following conditions:

17.1.1 The student was a registered student of the University at the time of his or her assessment and has fulfilled all financial obligations to the University.

17.1.2 The student has completed a programme approved by the University as leading to the award being recommended, and

17.1.3 The award has been recommended by a Board of Examiners convened, constituted and acting under regulations approved by the Academic Board.

17.1.4 The student has no adverse disciplinary record.

18 Principles and Purpose of Assessment

18.1 The prime purpose of assessment is to enable students to demonstrate that they have fulfilled the objectives of the programme of study and that they have achieved the standard required for the award to which they aspire.

18.2 Assessment reflects the achievement by the individual student in fulfilling the programme objectives, in relation to a consistent national standard of awards. Assessment, both summative and formative, serves as useful feedback to students. Students shall be informed of their performance in the assessment so that they are aware of their progress. Assessment is an essential component of the student's learning process and should be designed on that basis.

18.3 Assessment is a matter of judgement, not simply of computation. Marks and percentages should not be treated as absolute values but as symbols to be used by examiners to communicate their judgement of different aspects of a student's work, to provide information on which the final decision on a student's fulfilment of programme objectives may be based.

18.4 A student's circumstances may influence the procedures for assessment and the consequences of assessment but not the standard of performance expected in a module assessment, or at the end of a programme.

18.5 The Academic Board is the ultimate authority in the University for the ratification of academic decisions and may, in extreme circumstances, over-rule a Board of Examiners, but it will normally refer matters of concern back to the Board of Examiners for reconsideration.

18.6 For many areas of its work the Academic Board will delegate its responsibility to College Academic Committees subject only to reporting; but it has the authority to revert that authority.

18.7 Acting within the above principles a Board of Examiners will exercise its judgement in reaching decisions on individual students. It is responsible for interpreting the assessment regulations for the programme, in the light of the University's requirements and good practice in higher education. The Board of Examiner's academic judgement should not lightly be questioned or overturned.

19 Reliability and Validity

19.1 Assessment must be reliable. Reliability is the likelihood that similar results would appear if the students' work were marked on another occasion, whether by the same or different markers.

19.2 Validity relates to the need to assess the right thing. If the module is seeking to teach students to synthesise academic concepts an assessment of their knowledge of the concepts will not of itself constitute a valid assessment. Assessments should test students' achievement of the specified learning outcomes of a module.

19.3 To maximise reliability and validity:

19.3.1 It is mandatory for all staff to invite a colleague to go through test questions or assessment tasks for clarity, readability, appropriateness to the learning outcomes of the module and level of demand.

19.3.2 Independent assessor or a group of assessors mark student work through consultation to achieve uniformity in marking).

19.3.3 All assessed work should have associated marking criteria and marking scheme (appropriate model answers where possible). These guides to marking should be developed simultaneously with assessment instruments and, where practicable, be approved by the external examiner. Sharing of agreed marking criteria with students is a required feature of good practice. All feedback given to students should relate to the agreed marking criteria.

20 Forms of Assessment

20.1 The form and balance of assessment for each module should be such as to provide the most accurate assessment of the student's achievement of the module's aims and objectives. Assessment may be by end-of-module assessment (normally referred to as examination); or by intermittent or periodic assessment undertaken during the course of the module (commonly referred to as continuous assessment). A combination of the two is most desirable since it allows a wide variety of learning outcomes and aims to be assessed.

20.2 The forms of assessment commonly in use include objective tests, unseen essay papers, pre-disclosed questions, closed book examinations, open book examinations, case studies, assessed coursework, essays, projects, laboratory practicals, including structured practical examination and objective structured clinical examination, supervised work experience, seminar contributions, oral presentations and viva voces.

20.3 The module descriptor and the definitive programme document should specify the relative contribution (weighting/percentage of marks) of continuous assessment and examination to the final module assessment.

20.4 By the commencement of each module the module co-ordinator must advise the enrolled students of the form of the assessment and the timing of the assessment components which make up the continuous assessment and semester end examination. This will be consistent with the overall framework established for the programme's assessment.

20.5 All assessments shall be conducted in the language of the module's instruction, except where specific provision has been made and agreed by the Academic Board, or by the College Academic Committee in the case of programmes below degree level or for programmes not leading to the University's awards.

20.6 If, through disability, a student is unable to be assessed by the prescribed method for the module, alternative assessment methods may be used. Taking into account the need to assess the student on equal terms with other students, variations may include the following:

i. an extension of the normal registration period for completing an award;
ii. extra time being allowed for assessments;
iii. alternative or modified assessments;
iv. use of scribes in assessments;
v. use of viva voce assessment;
vi. use of appropriate aids (such as word processor, Braille, tape-recorder, large print
vii. scripts etc.)

21 Marks and Levels of Performance

21.1 Assessment is primarily a matter of academic judgement, and the computational structure is designed to facilitate consistent judgements. The following scale is suggested as way of relating a judgement of performance to a numerical mark. The attribute attached to each range of marks are set out in more detail in the Appendix.

Judgement of performance	Mark
an outstanding performance	80% and above
very good performance	70 - 79.9%
good performance	60 - 69.9%
satisfactory performance	50 - 59.9%
fail	49.9% and below

21.2 These judgements and the related marks should be used in a consistent fashion at all levels of assessment whether it is judging a student's overall performance; a semester's performance, a module mark, or a piece of assessed coursework. This will ensure a consistent measure of quality at all stages of a student's performance.

21.3 If appropriate, examiners may adjust the raw marks attained by students in individual subjects, but the basis of the scaling must be reported to the Board of Examiners who may endorse the scaling.

22 Assessment of a Module and Progression

22.1 To pass a module a student must obtain a minimum of 50% overall including both the continuous assessment and semester end examination. However, students must obtain a minimum of 40% each in continuous assessment and semester end examinations.

22.2 A student will be awarded a mark of zero for non-submission of a component of course work.

22.3 A student who has been absent from the examination or who has performed badly due to illness or other cause acceptable to the Board of Examiners shall be allowed to take the examination and it shall be treated as a first assessment.

23 Re-assessment and Repeat of a module

23.1 Reassessment is permitted to allow a student to make good an initial failure. It thus affords the student an opportunity to succeed in the failed component of a module (s) (coursework or end of semester examination) and ultimately gain an award.

23.2 The Board of Examiners shall decide on the form of the re-assessment (e.g. written examination, viva voce, or an additional assignment, or any additional requirement which was not met), taking cognisance of the nature of the failed module and the nature of the failure. This may differ from the format of the first assessment and need not be the same for all students.

23.3 A student may be re-assessed in a failed module(s) provided that he or she:

23.3.1 Has not failed in more than 30% of the total number of modules prescribed for that semester (rounded off to the nearest whole number of modules).

23.3.2 Shall not be re-assessed in a module more than once. Re-assessments should take place before, or at the commencement of the next semester.

23.4 A student who is re-assessed for a module failure, where there are no clear extenuating circumstances (extenuating circumstances is defined in section B10 of this document), shall be awarded no more than 50% on passing the re-assessment, this being the minimum pass mark.

23.4 A student shall be eligible to repeat failed module(s) where he or she:

23.4.1 Has failed in the re-assessment of a module(s). In such an event, the student shall meet all assessment requirements of those modules. For students under this category, attendance in lectures is not mandatory.

23.4.2 Has failed more than 30% of the total number of modules prescribed for that semester (rounded off to the nearest whole number of modules). In such an event the student shall meet all teaching, learning and assessment

requirements of the failed modules. For students under this category, attendance in lectures is mandatory.

23.4.3 A student will be given the opportunity to repeat a module when it is offered at the first available instance.

23.4.4 Where a module is repeated the mark obtained will replace the mark achieved at earlier attempts.

23.4.5 A student may repeat a failed module **any number of times** within the normal registration period for completing an award. In the event a student fails a repeated module, he/she will not be eligible for reassessment.

23.4.6 A student may not register for more than 2 repeat modules in addition to the modules prescribed for the semester.

23.5 Students wishing to appear re-assessment exams have to register online as per the schedule and he/she has to pay Nu 1000/- for the re-assessment. A student shall not be permitted to appear for re-assessment without pre-registration.

24 Decisions by Boards of Examiners

24.1 The Board of Examiners shall, in the light of the University's general assessment regulations and the programme specific regulations, determine, for each module, the mark to be assigned to each student's performance. The Programme Board of Examiners shall determine whether each student shall:

24.1.1 Be eligible for an award.

24.1.2 be allowed to continue on the programme, possibly with provision for re-assessment in certain modules and/or for the repeat of certain modules, or

24.1.3 Be required to withdraw from the programme.

24.2 The only decisions available to the Board of Examiners on progress and award shall be:

24.2.1 To allow a student to continue to the next semester where the student has passed assessments for all modules, OR

24.2.2 To allow a student to continue to the next semester, but only after being reassessed and having passed specified failed modules, OR

24.2.3 To allow a student to continue to the next semester but must repeat the failed re-assessed modules when the modules are offered next, OR

24.2.4 To allow a student to repeat the failed modules of that semester before continuing to the next semester, OR

24.2.5 For the student to withdraw from the programme.

24.3 Boards of Examiners have discretion to make decisions in the absence of complete assessment information in the following circumstances:

21.3.1 It is established to the satisfaction of the Board of Examiners that a student's absence, failure to submit work, or poor performance in assessment for an award is due to illness or other valid documented cause.

21.3.2 The Board of Examiners is satisfied that there is enough evidence of the student's achievement, or evidence is subsequently obtained.

24.4 Decisions made in absence of complete information must aim to ensure consistency of standard and equality of opportunity for the student under consideration as compared with his/her peers. The student must not be put in a position of unfair advantage over other students for the award. The Board of Examiners has a duty to gain as much information about the student's ability and performance as possible before making decisions.

25 Final results and Awards

25.1 To gain an award, a student must normally be a registered student at the University for at least one academic year.

25.2 The overall mark at the end of each semester is the mark awarded for each module in that semester weighted by the proportional size (or credit value) of that module. This can be expressed by the equation.
Overall mark = Sum of (module mark X credit value)/sum of the credit value of all the modules: As an example, a student gains 50% in subject A (credit value 2) and 80% in B (credit value 1). His overall mark will be (2 x 50 + 1 x 80) /(1 + 2) = 60%. This system of calculation is similar to the grade point average system but avoids the inherent statistical inaccuracies introduced in that system.

25.3 The overall mark for a student at the end of a programme should be designed to reflect his or her entire performance throughout the period of study. The final mark should be a combination of the overall mark of all the years weighted in the following manner:

2 – year programme	30:70 (year I : year II)
3 – year programme	20:30:50 (year I : year II : year III)
4 – year programme	10:20:30:40 (year I : year II : year III : year IV)
5 – year programme	10:10:20:20:40 (year I : year II : year III : year IV: year V)

26 Academic Dishonesty and Plagiarism

26.1 If a student is found to have cheated or attempted to gain an unfair advantage, the Board of Examiners may consider the student to have failed part or all of the assessment and to determine whether or not the student shall be permitted to be reassessed. Serious cases of cheating, plagiarism together with other forms of academic dishonesty such as impersonation, falsification of data, computer and calculation fraud, examination room cheating and bribery may also be referred for consideration through the individual College's disciplinary procedure and can result in a student being required to leave the College. Students must ensure proper acknowledgement of borrowings from other sources, whether published or unpublished. Subject areas should provide guidance on how such borrowings should be acknowledged in a manner appropriate to that discipline. Plagiarism is defined as the presentation by an individual of another person's ideas or work (in any medium, published or unpublished) as though they were his or her own.

26.2 Staff are responsible for:

26.2.1 Teaching their students a system of referencing appropriate to the discipline and for ensuring their use in coursework.

26.2.2 Explaining that plagiarism and academic fraud are unacceptable, and will be penalized.

26.2.3 Monitoring student work to guard against such activities.

26.2.4 The issue of plagiarism is dealt with more fully in the University's regulation on Academic Dishonesty D4 of the Wheel of Academic Law.

27 Staff Responsibility to Students in Assessment

27.1 Assessment of students 'skills and knowledge will be both fair and appropriate to the module. At the start of each academic year (or semester for single semester modules), students will be provided with a schedule of assessments for each module to enable them to plan their workload. The schedule of assessment, with submission deadlines, will be coordinated and prepared by the programme leader who will see to its effective implementation.

27.2 Penalties will be levied if the coursework submission deadlines are not met. In a like manner, work submitted on time will be returned to the student marked within three working weeks, with written comments, where appropriate, on how to improve performance.

27.3 The standards that are expected of any piece of work will be clearly specified as will the weighting of each of the assessments that counts towards students' overall mark at the end of the semester.

28 Appeals

28.1 The College Academic Committee has the authority to make judgements on a student's ability to gain from continuing on the programme.

28.2 Students have the right to appeal the decisions of a Programme Board of Examiners. Such appeals will be processed in accordance with the procedures detailed by the Academic Board.

28.3 Students can request for recheck of their semester end examination answer scripts. The recheck will ensure that all sections of a student's responses are marked and that all marks are accounted for in the total. An administrative fee of Nu 200 per module will be levied. The fee will be reimbursed in the event of an error resulting in change in the marks of a student.

28.4 Students can request for re-evaluation of their semester end examination answer scripts. The re-evaluation will be done by a second marker. The average of the two markers marks will be taken as the final score. An administrative fee of Nu. 500 per module (non-refundable) will be levied.

28.5 Academic staffs are required to submit to the Academic Appeal Committee any documentation relevant to a student's performance, including written reports from tutors, certificates of illness, or written 'warnings'. Such material will be retained on a student's file so as to provide written evidence, should an appeal arise.

28.6 A student who opts to exercise his/her right to appeal the decision of a Programme Board of Examiners must present such an appeal with supporting documentation to the Secretary to the Academic Appeals Committee within fourteen days of the date of promulgation of the decision appealed.

28.7 The student's appeal should be supported by a medical certificate or other acceptable documentary evidence outlining the circumstances which have given rise to the appeal:

25.7.1 Students must ensure that medical certificates provide sufficient detail/information for the Academic Appeals Committee to assess the impact of the condition(s) cited.

28.8 A student may appeal against a decision of a Programme Board of Examiners on the following grounds only:

28.8.1 That his/her performance in the assessment was adversely affected by illness or other factors which he/she was unable or for valid reasons unwilling to divulge before the Programme Board of Examiners reached its decision.

28.8.2 That the Programme Board of Examiners did not give sufficient weight to any extenuating circumstances previously notified to the College prior to the holding of the meeting of the Programme Board of Examiners.

28.8.3 That the examinations were not conducted in accordance with the current regulations as prescribed by the Programme Board and as approved by the Academic Board.

28.8.4 That there was a substantial error of judgement on the part of the Examiners with the result that the assessment given was totally at variance with previous assessment and performance levels.

28.8.5 That there was a material administrative error or a material irregularity in assessment procedures which have made a real and substantial difference to the student's result.

28.9 Each valid appeal lodged with the Secretary to the Academic Appeals Committee within fourteen days of the date of promulgation of the decision appealed shall be referred to the Academic Appeals Committee.

28.10 Students lodging an appeal are required to submit a nominal fee of Nu 1000 (subject to periodic review) with their appeal documentation. The appeal fee is non-refundable.

29 Code of Learning and Teaching Practice

A code of practice is a mechanism whereby what is expected in practice can be clearly set out, i.e, expectations are made clear. In the case of the proposed RUB Code of Learning and Teaching expectations at different levels of the organization have been specified in terms of responsibilities at each level. It is important to note that the responsibilities of one group imply the rights of the other. So, for example, responsibilities exercised by staff can be reasonably expected as the rights of students.

Teaching and learning activities in all Colleges and Colleges of the University shall be governed by the codes of practice for students and staff set out below. The statement of the responsibilities at all levels of the university is to provide guidance on student and staff behavior and rights in teaching and learning activities and to show how the responsibilities at different levels complement each other. The responsibilities of students, and the responsibilities of staff at different levels, are regarded as reciprocal, so the responsibilities of one group imply the rights of the other.

30 Responsibilities of Students

Students of the university have the following responsibilities to:

30.1 Apply themselves to their studies to the best of their abilities;

30.2 Become familiar with the rules and regulations governing the degree in which they are enrolled, and to ensure that the modules selected meet the award requirements;

30.3 Be aware of the policies practices and expectations of the university set out in the RUB Wheel of Academic Law (RUB 2017) and of any College/College and department in which they are enrolled and which are contained in the module materials and information made available to them;

30.4 Be aware of, and act according to, the rules and regulations concerning the use of College/College computing, library and other facilities, and so to respect the rights of other learners;

30.5 Meet deadlines for module work to be submitted;

30.6 Take the initiative and consult appropriately when problems arise in any module;

30.7 Submit original work for assessment without plagiarizing or cheating;

30.8 Attend all organized teaching/learning activities, including professional placements, for each module in which they are enrolled (on-campus students) and, for distance education students, to consider thoroughly all program materials and participate in all prescribed residential schools;

30.9 Accept joint responsibility for their own learning along with the teaching staff;

30.10 Provide feedback to staff about (a) teaching and learning practices and (b) the quality of modules as well as to contribute to the development of university programs and policies as appropriate;

30.11 Abide by the University's policies on occupational health and safety so that they can study in a safe and healthy environment;

30.12 Be aware of the university's commitment to equal opportunity and to demonstrate tolerance and respect for all members of the university community including respect of the right of staff members to express view.

30.13 Respect the working environment of others in all areas of the university.

31 Examination Regulations

31.1 The term "examination" shall refer to the end of module assessment associated with a programme of study (not to continuous assessments occurring during such programmes). Its form typically involves a written or oral examination, but may involve other forms such as assessment of laboratory exercises or coursework or project work, examination of dissertations or any such similar activity or academic exercise which may be approved or prescribed by the Academic Board in respect of any programme of study.

31.2 Only registered students who have satisfactorily attended or otherwise pursued a programme of study approved by the Academic Board and who have completed satisfactorily all programme requirements shall be admitted as candidates to the examinations or other tests of attainment.

31.3 It is the responsibility of each candidate to ensure that s/he is familiar with all relevant module and programme regulations and examination requirements.

32 Examination Timetable

Examination Timetables should be displayed on the college website and/or on notice boards easily accessible to all students. It is the candidate's responsibility to ensure that s/he is aware of the date, time and venue of his/her examinations. Examination Timetables should be displayed approximately three weeks in advance of the relevant examinations.

Examination Hall

32.1 Students should be present fifteen minutes before the commencement time of an examination but should not enter the examination hall until asked to do so by the invigilator.

32.2 Students shall not be permitted to leave the examination hall during the first hour or during the last fifteen minutes of the examination.

32.3 Students shall not be admitted to the examination hall more than half an hour after the start of the examination.

32.4 Students shall not be permitted to commence writing on answer books until the invigilator instructs them to do so. Writing on answer books prior to the start of the examination will be treated as a breach of examination regulations.

32.5 No Food or drink is permitted in the examination hall except drinking water.

32.6 Students shall sit at the desk indicated by the invigilator or indicated on the notice board at the examination hall entrance.

32.7 Students must leave their current student identity cards visible on their desks for the purpose of checking, without undue disturbance, after the start of the examination.

32.8 The invigilator will advise all the students how to complete the cover sheet of the answer book and indicate whether one or both sides of the paper may be used and whether name or registration number/index number should be used. Students should read the instructions at the head of the question paper before starting work.

32.9 Students may not use dictionaries and other reference books or notes unless approved by the College through the relevant programme board. A list of such approved texts will be advised in advance. Mathematical/statistical tables, if required, will be supplied. Mathematical/ statistical tables are the property of the College and, under no circumstances should they be removed from the examination hall. Students found in possession of these tables inside the examination hall will be deemed to be in breach of the Examination Regulations. Students may not bring their own mathematical/statistical tables into the examination room.

32.10 It is the responsibility of each student to ensure that he/she has an adequate supply of pens, pencils, ink, etc., required for an examination. The borrowing of such materials will not be permitted during an examination. Students are not allowed to bring blank paper into the examination hall. All paper will be supplied by the invigilators.

32.11 Approved models of personal standard scientific calculators may be used except in circumstances where their use is expressly forbidden. Programmable or text storing calculators are not permitted. Students are required to record on their answer booklet the make and model of calculator used. It is the responsibility of each candidate to ensure that his/her calculator is in working order.

32.12 Students are not permitted to bring mobile phones or any electronic equipment, other than a standard scientific calculator, into the examination hall.

32.13 Students wishing to leave the examination hall temporarily may not do so unless accompanied by an invigilator. In any event, no person may enter or leave the examination hall without the invigilator's permission.

32.14 Students must not, on any pretext whatsoever speak to or have any communication with any other candidate; such communications will be regarded as a breach of the Examinations Regulations. If a student needs to ask a question or obtain an extra answer booklet, he/she should raise his/her hand and one of the Invigilators will attend to him/her.

32.15 At the end of the examination, each student must remain in his/her places until an invigilator has collected his/her answer book(s), the answer books have been checked, and the invigilator has announced that the students to leave the examination hall. It is the responsibility of each student to ensure that his/her answer booklet(s) are handed to the invigilator.

33 Absence from an Examination and Illness during an Examination

33.1 An invigilator will come around with the examination attendance sheet to note the attendance of candidates appearing for the examination.

33.2 If a student is absent from the examination, a detailed explanation must be submitted to the Programme Leader immediately, together with a medical certificate if the absence was due to illness. Details of all such absences shall be reported immediately to the Chairperson of the Programme Board of Examiners and subsequently to the relevant Programme Board of Examiners.

33.3 A student who is absent from an examination without an acceptable excuse and proper documentation evidence will receive zero mark for that examination paper.

33.4 A distressed or ill student may be permitted to leave the examination hall temporarily during an examination, accompanied by an invigilator, and subsequently return to complete the examination, provided the continuity and quality of supervision is not affected. The invigilator may, following consultation with the College Head, and the Programme Leader if deemed necessary, give a time extension to such a candidate at the end of the examination equal to the period of absence, or arrange for such a candidate to complete the examination in a separate room under separate supervision.

34 Provisions for Candidates with Disability

The Programme Leader should arrange for additional services for disabled students during their examinations. If required, specific reasonable adjustments will be made to enable disabled students to sit examinations, including any written, practice or oral examination. Students that have a temporary disability at exam time should contact the Programme Leader directly, if possible, at least seven days before their examinations commence. A student's request for additional provisions must be supported by a medical certificate.

35 Breaches of Examination Regulations

35.1 A student who is found to have unauthorized materials in his/her possession in the Examination Hall shall be deemed to be in breach of the Examination Regulations. Any written or printed materials not written on official answer books or electronic devices containing text shall be considered to be unauthorized materials.

35.2 The unauthorized materials, together with the candidate's student identity card, shall be removed and retained by the invigilator who shall make a written report to the Chair of the College Academic Committee. The student shall be allowed to complete the examination.

35.3 The same procedure will be followed [as in 7.2] where student(s) is/are considered by the invigilator to have copied or to have attempted copying any material from each other.

35.4 A candidate alleged to be in breach of the examination regulations shall be referred to the Chair of the College Academic Committee in advance of the relevant Programme Board of Examiners meeting and a report from the Chairperson shall be placed before the Board. The Chairperson's report shall make a precise recommendation to the Board.

35.5 A student found to be in breach of Examination Regulations shall have all written examinations of that semester declared void i.e., declared failed by receiving zero in all

examinations. This shall also apply to examinations for reassessment. Such student may be permitted to present for that semester examinations in the next round of the relevant semester examinations. (This paragraph should be read in conjunction with paragraph 6 under Section C1 of the Wheel of Academic Law).

36 Communication of Examination Results

36.1 All examination results are subject to final confirmation by the College Academic Committee.

36.2 Results are formally communicated to students, after the relevant meetings of the Programme Board of Examiners, as indicated in the annual College Academic Calendar. Students will be able to view their results online (on College's website) or on notice boards following each semester examinations.

36.3 Only information regarding pass/fail results may be given by telephone. Enquirers must be able to quote the students identity number. No member of staff other than the relevant Programme Leader, module tutor or authorized staff in the College may disclose details of results to candidates.

37 Services

37.1 Library

The library is centrally located and has a modest collection of books on different subjects. Apart from books and newspapers, the library has a subscription for journals and magazines.

Library timing is as follows:

Monday to Friday	: 8am to 10pm
Saturday	: 8am to 12 noon
Sunday/Government Holidays	: Closed

However, the library is open from 8AM to 12 AM (midnight) one week before the exams and during the examination time.

37.2 Hostel

CST is a residential College. As of date it can accommodate more than one thousand students in its hostels including Lhawang hostel. These hostels have modest facilities to enable students to live safe, secured and healthy. The hostels are managed by Student Service Officers with the help of supporting staff and students.

Student Service Officer and Games Coordinator (Male) : Mr. Purna Bdr Mongar
Student Service Officer (Female) : Ms. Phub Lham

37.3 Students' Mess

The students' mess is managed by the students' body. A mess committee comprising of member representatives from first to final years decide the menu, rates and other associated details. The service is regulated by the college.

38 IT facilities

The College has adequate computer labs with up-to-date computers for students use. The labs have most of the essential engineering software required to enhance learning.
The College is connected to Druk Research & Education Network (DrukREN), a dedicated high speed National Research & Education Network (NREN) for research & education community in Bhutan at 1 Gbps and International Commercial Transit line of 200 Mbps. The whole campus including the hostel is connected to the internet through both wired and wireless networking. The College website is **www.cst.edu.bt**.

39 Extracurricular Activities

The students organize literary, cultural and other games & recreational activities from time to time. Through these activities students have opportunity to make an impact on their living environment and develop their leadership skills by getting involved in these activities. The details of the events with its schedules are developed by the students' representatives and announced or posted to notice boards from time to time.

40 Training and Placement

Students are required to undergo six week of on-the-job training(OJT) in various agencies /organisations elsewhere in Bhutan. The placement of a student is done through the College Industry Relation office of the College. Also, the College invites the various employing agencies to provide career guidance and conduct campus employment interviews.

41 Guidance and Counselling

The College places significant importance to guidance and counselling. The college has its own centre called Happiness and Wellbeing Centre to cater to the needs of students in the area of guidance and counselling and other life skills services. The College has three certified counselors to support the centre.

Additionally, the concerned module tutors are directed to discuss with the students, on a regular basis, on their performances in the module. The tutors and staff are also directed to refer the students to the centre whoever requires such support.

42 Medical Facilities

The College has a infirmary with the most of the basic health supplies and a one bedded ward. This health centre is managed by senior Health Assistant.
He is available in the college infirmary from 8:00 A.M. to 3:00 P.M. and is available within the campus during other hours.

43 Students' Representative

The College places utmost importance in the development of leadership potential, interpersonal skills, positive attitude and sense of commitment from the students. The students' representatives are thus elected. These groups of students plan and execute various student centred activities of the College.
The categories of students' representatives are:

1. Councillors who are part of the Hostel Management Committee
    i. Chief Councillor,
    ii. Deputy Chief Councillor (male),
    iii. Deputy Chief Councillor (female),
    iv. Games and Health Councillor
    v. Literary Councillor
    vi. Cultural Councillor
    vii. Maintenance Councillor
    viii. PA Councillor
    ix. Hostel Block Councillors (3 Male and 2 Female)
    x. CAC student member representatives (Two students)
    xi. College Media Councillor
2. CST Club

#	Club Name	Club Advisor/Staff Coordinator
1	KuenphenTshogpa	Ganapati Ghimeiray
2	RangzhinThuendrelTshogpa (Environmental Club)	Chimi

3	Nyendrom Dang Lokzey Deykhang (CST Radio Club)	Karma Kelzang Eudon
4	Gross National Happiness Club	Bharat Kumar Humagai
5	Nangpai Zhenu (Spiritual) Club	Ngawang Zepa
6	Association of Computing Machinery Chapter (Programming) Club	Jeevan Gurung
7	CST Y Peer Club	Dr.Chimi Wangmo
8	CST Rovers Club	Phub Lham
9	Bhutan Toilet Organization club	Yeshi Jamtsho
10	Integrity Club	Manoj Sharma
11	Vocational Club	SSO (Purna Bdr Mongar)
12	Bhutan Kidney Foundation	Tsheten Dorji
13	Cultural Club	Ngawang Zepa
14	Maintenance Club-Electrical	HoD EEED
15	CST Multimedia Club	Karma Kelzang Eudon
16	Literary Club	Thinley Wangmo
17	BRCS Club	Dr. Ugyen Dorji
18	Entrepreneurship Club	Sangey Phuntsho

Student Appreciation Awards

The College has marked 2nd of May as Annual Recognition Award (ARA) day coinciding with the Teachers' day. The categories in which the students are awarded are as follows:

1. Student of the year
2. Academic excellence (one from all the programmes)
3. Sports person of the year (male)
4. Sportsperson of the year (female)
5. Most competent person in literary
6. Most competent person in Cultural
7. Most contribution in literary
8. Most contribution in cultural

Student Welfare Scheme

The Student Welfare Scheme was introduced in October 2016 and became functional from October 2017. The student welfare scheme is managed by the Student Service Officers, Ms. Chimi Dem and Chief Councillor. During the time when student require financial support, they just need to fill up the SWS form and submit to the SSO with the evidence.

44 Staff Statistics

Staff Category		Name	Position
MANAGEMENT	1	Dr. Tshewang Lhendup	President
	2	Chimi	Dean (Academic Affairs)
	3	Kelzang Dorji	Dean (Student Affairs)
	4	Dr. Sangey Pasang	Dean (Research & Industrial Linkages)

Civil Engineering Faculty	1	Nimesh Chhetri	HoD/Lecturer
	2	Dr. Cheki Dorji	Specialist (Contract)
	3	Tshering Tobgyel	Lecturer
	4	Tshewang Nidup	Lecturer (on Study Leave)
	5	Dr.Ugyen Dorji	Assistant Professor

	6	Monika Thapa	Lecturer
	7	Tshering Cheki	Lecturer
	8	Namgay Om	Associate Lecturer
	9	Tashi Dorji	Assistant Lecturer
	10	Tekindra Neopaney	Assistant Lecturer
	11	Sanjita Limdoo	Associate Lecturer
	12	Yeshi Singye	Assistant Lecturer
Engineering Geology Faculty	1	Tshering Dhendup	PL/Associate Lecturer
	2	Karma Tempa	Assistant Professor
	3	Lily Gurung	Lecturer
	4	Bhawani Shankar Nirola	Associate Lecturer
	5	Karma Dema	Assistant Lecturer
Water Resource Engineering Faculty	1	Dr.Chimi Wangmo	Programme Leader/Lecturer
	2	Leki Dorji	Lecturer
	3	Rigzin Norbu	Assistant Lecturer (on Study Leave)
	4	Saroj Rai	Lecturer (on Study Leave)
	5	Subash Pakural	Assistant Lecturer
	6	Lhendup Tshomo	Assistant Lecturer
Civil Engineering Support Staff	1	Ugyen Dorji	Technician
	2	Tashi Phungtsho	Lab Assistant
	3	Khampa	Technician
	4	Sonam Choden	Technician
	5	Gembo Tshering	Technician
	6	Purna Bdr. Bhujel	Lab Assistant (on Study Leave)
Architecture Faculty	1	Sonam Chuki	HoD/ Associate Lecturer
	2	Sumitra Ghalley	Associate Lecturer
	3	Jigme Thinley	Lecturer
	4	Jamyang P. Dorji	Associate Lecturer
	5	Penden Wangchuk	Associate Lecturer
	6	Divya Chhetri	Assistant Lecturer
	7	Kinnzang Wangchuk	Assistant Lecturer (Contract)
Electrical Engineering Faculty	1	Namgay Tenzin	HOD/PL/ Associate Lecturer
	2	Cheku Dorji	Assistant Professor
	3	Manoj Sharma	Lecturer
	4	Bikram Chhetri	Lecturer
	5	Aita Bdr Subba	Associate Lecturer
	6	Nabindra Sharma	Associate Lecturer
	7	Precela Chhetri	Assistant Lecturer (Contract)
	8	Tulasa Sharma	Assistant Lecturer (Contract)
Electrical Engineering Support Staff	1	Nidup	Sr. Technician
	2	Dorji Wangdi	Technician
	3	Ugyen Dorji	Technician
Electronics & Communication Engineering faculty	1	Pema Zangmo	Programme Leader/Associate Lecturer
	2	Dr. Tashi	Assistant Professor
	3	Karma Kelzang Eudon	Lecturer
	4	Kamal Kumar Chapagai	Lecturer

	5	Dechen Lhamo	Lecturer (on Study Leave)
	6	Kinzang Thinley	Associate Lecturer
	7	Duk Bdr Powdel	Assistant Lecturer (Contract)
Electronics & Communication Engineering support staff	1	Tenzin Dorji	Lab Technician (on Study Leave)
	2	Leki Tshering	Lab Technician
	3	Sonam Tshomo	Lab Technician
Instrumentation & Control Engineering Faculty	1	Seema Powdel	PL/Associate Lecturer
	2	Chador Wangmo	Associate Lecturer
	3	Mani Kumar Powdyel	Assistant Lecturer
Instrumentation & Control Engineering support staff	1	Yeshi Zangpo	Technician
	2	Rinchen Wangmo	Technician
Information Technology faculty	1	Parshu Ram Dhunggyel	HoD/PL/Lecturer
	2	Tandin Wangchuk	Lecturer (on Study Leave)
	3	Tsheten Dorji	Lecturer
	4	Manoj Chhetri	Lecturer
	5	Kezang Dema	Lecturer
	6	Yeshi Jamtsho	Lecturer
	7	Karma Wangchuk	Lecturer
	8	Jeewan Gurung	Lecturer
	9	Ugyen Penjor	Assistant Lecturer (Contract)
	10	Nima Yoezer	Assistant Lecturer (Contract)
Software Engineering faculty	1	Yeshi Jamtsho	Programme Leader/Lecturer
	2	Pema Thinley	Assistant Lecturer
	3	Norbu Tshering Lepcha	Assistant Lecturer
	4	Saroj Sanyasi	Assistant Lecturer
	5	Nima Yoezer	Assistant Lecturer
	6	Dechen Tshomo	Assistant Lecturer
	7	Asish Chhetri	Assistant Lecturer
Information Technology support staff	1	Ngawang Dhendup	Technician
	2	Tshewang Tobjay	Technician
	3	Kelzang Namgay	Technician
	4	Sangay Eden	Technician
ICT Personnel	1	Tashi Tshomo	Assistant ICT Officer
	2	Mahindra Rai	Senior ICT Technical Associate
Mechanical Engineering Faculty	1	Tenzin	PL/ Assistant Lecturer
	2	Damcho Wangchuk	Assistant Lecturer
	3	Singye Wangchuk	Assistant Lecturer
	4	Phurpa Zangmo	Assistant Lecturer
Mechanical Engineering Support staff	1	Lungten Gyeltshen	Technician
	2	Karma Dorji	Technician
	3	Chura Moni Baraily	Technician
Science and	1	Tshering Denka	HoD/Lecturer

Humanities faculty	2	V Jaya Chandran	Assistant Professor
	3	S.T.Venkatesan	Assistant Professor
	4	Bharat Kumar Humagai	Lecturer
	5	Jyothi Lakshmi	Lecturer
	6	Ganapati Ghimiray	Lecturer
	7	Thinley Wangmo	Associate Lecturer
	8	Pema Choden	Lecturer
	9	Jigme Namgyel	Associate Lecturer
	10	Ngawang Zepa	Associate Lecturer
	11	Sangay Phuntsho	Associate Lecturer
	12	Phurba Samdrup	Assistant Lecturer
	13	Kinzang Choden	Associate Lecturer
	14	Shankar Das Sharma	Assistant Lecturer
Science and Humanities Support staff	1	Samdrup Tshering	Lab Assistant
	2	Nar Maya Limbu	Lab Assistant
Administrativeand Accounts Staff	1	Choki Zangmo	Asst. Administrative Officer
	2	Chundu Tshering	Asst. Finance Officer
	3	Khem P Sharma	Sr. Account Assistant
	4	Dorji Phuntsho	Estate Manager
	5	Tshering Wangmo	Senior Adm. Assistant
	6	Sunita Tamang	Personal Assistant
	7	Passang Dema Sherpa	Adm. Assistant II
	8	Purna Bdr Mongar	Student Service Officer
	9	Phub Lham	Student Service Officer
	10	Sujata Rai	Asst. Research Officer
	11	Nima Dema	Asst. Liaison Officer
	12	Partiman Singer	Sr. Technician-II (Carpenter)
	13	Kezang Dorji	Plumber
	14	Tshewang Penjor	Sr. Technician-II (Electrician)
	15	Tenzin Dorji	Store Keeper
	16	Pema Zangmo	Asst. Exam & Student Record Officer
	17	Sangay Dorji	Driver
	18	Samten Choda	Driver
	19	Tshering Penjor	Driver
Library Staff	1	Tshering Yangchen	Assistant Librarian
	2	Tula Ram Ghalley	Library Assistant
	3	Pema Choden	Library Assistant
	4	Phub Dem	Library Assistant
	5	Dawa Zangmo	Library Assistant
	6	Dechen Pelden	Library Assistant
ESP and GSPStaff of CST	1	Tshering Dorji	Cook
	2	Kinzang Wangchuk	Cook
	3	Lungten	Cook
	4	Sonam	Cook
	5	Choki Dorji	Cook
	6	Lok Nat Gurung	Cook
	7	Tula Ram Ghalley	Cook

	8	Tshering	Water Fitter
	9	Kuenzang Choden Drukpa	Dry Sweeper
	10	Padma Maya Ghaley	Dry Sweeper
	11	Dorji Wangmo	Dry Sweeper
	12	Tashi Yangzom	Wet Sweeper
	13	Wangda	Helper
	14	Singye Yeshi	Gardener
	15	Tshering	Gardener
	16	Bijay Kumar Rai	Gardener
	17	Cheten Tshering	Wet Sweeper

45 Student Conduct and Discipline

Introduction

CST is dedicated to pursue excellence in the field of science and engineering, the promotion of academic achievement and advancement of knowledge. Because of the College's interest in the intellectual, physical and psychological wellbeing of the campus community, it is important for the College to have a system to foster acceptable standards of conduct to enable the College to excel in all its endeavors.

The College shall enumerate and set forth rules and procedures encompassing methods of governance concerning the students conduct and discipline in compliance with the laws prescribed by the country. All students shall comply with the provisions of the stated rules or norms and procedures of the College. Failure to comply may lead to disciplinary action.

The general rules and procedures aimed to maintain the conduct standards at the College are set forth in writing in order to give students general notice of prohibited conduct. These rules should be read broadly and are not designed to define prohibited conduct in exhaustive terms.

The College reserves the right to determine when its rules are violated and to determine the appropriate course of action. By enrolling in CST, every student implicitly accepts the responsibility to comply with the College's authority, rules, norms and procedures, to respect the rights of others and to protect private and public property.

Every student has the right to all the advantages, prestige and honors accruing to a student of this College. The student retains the rights guaranteed under the law of the land; the right of freedom from control by any persons except as may be in accord with published rules of the College, the right to pursue an education and to receive a degree or certificate for the successful completion of its requirements.

The focus the College rules and procedures are:

a. To promote the principle of mutual respect.
b. Discourage behaviors which the College considers inappropriate.
c. Implement fair and just procedures for dealing with possible cases of misconduct.
d. Provide for the imposition and enforcement of penalties for proven misconduct.

Who is subjected to discipline?

Any student who engages in conduct that violates the law of the land, prescribed rules and procedures of the College, Specific instructions issued by the College officials including the faculty and staff is subjected to disciplinary action whether such conduct takes place on or off campus. Students are instructed to read Student Code of Conduct and Ethics uploaded in the College website.

45.1 General Rules and Procedures

Stated below are the general rules, regulations and procedures of the College. Non-compliance to any of these rules and procedures will call for disciplinary actions.

45.1.1 Possession, consumption and distribution of controlled substance and illegal drug or narcotic (substance of abuse) are strictly banned.

45.1.2 Students are strictly prohibited to drink or possess or distribute or sell any kind of alcoholic beverage in the College premises.

45.1.3 Smoking in the Common rooms/halls and other public places is strictly prohibited.

45.1.4 Processions of any nature in the College campus are strictly prohibited.

45.1.5 Any student who engages in speech, either orally or in writing, which is directed to inciting or producing imminent lawless action and is likely to incite or produce such action, is taken to be indiscipline.

45.1.6 Instigating in groupism, hooliganism, vandalism, prowling or any form of anti-social behavior is strictly prohibited.

45.1.7 Students shall not take part in the local politics or any antisocial activities detrimental to the image of the College.

45.1.8 Gambling in any form is strictly prohibited in the hostel premises.

45.1.9 Improper behavior with fellow students, faculty, staff and College guests will be considered as acts of indiscipline.

45.1.10 Any student, who defaces, mutilates, destroys, or takes unauthorized possession of any property, equipment, supplies, buildings, or facilities owned or controlled by College is subject to discipline.

45.1.11 Students are expected to respect the rights and privileges of fellow colleagues. Harassment or victimization of anyone for any reason shall be viewed as a serious breach of discipline.

45.1.12 Indiscriminate fixing of postures & picture or writing graffiti on the walls is strictly prohibited. Also, indecent pictures or posters are not allowed in the hostel room.

45.1.13 Firing crackers, playing loud music etc., in the College campus shall not be allowed.

45.1.14 Students will be responsible for the safe keeping of their own property (belongings). In the event of loss of personal belongings of any student due to theft, fire or any other cause, the College shall not be held responsible or liable for any compensation.

45.1.15 Students shall not change the rooms without prior permission from the Student Service Officer.

45.1.16 Every student shall take possession of their room, electrical fittings and furnishings under their own signature. Willful damage of the fittings and furnishings shall be treated as an act of indiscipline.

45.1.17 The electrical appliances such as heaters, cookers, refrigerator, TV etc. shall not be permitted to use in the hostel rooms.

45.1.18 The common properties such as library books, TV, music systems, electrical and sanitary fittings, utensils etc must be used with care and willful damage of these will be considered as offense.

45.1.19 Students are required to handover the rooms with its furnishings and fittings before leaving for vacation, or on completion of the degree or leaving the College for good.

45.1.20 Students are not allowed to keep pets and also engage personal attendants.

45.1.21 Relatives, friends or acquaintances of opposite sex will not be allowed to visit or stay in the hostels. Prior permission should be sought from the Student Service Officer if any student wishes to take their relatives (parents only) to their room for short duration.

45.1.22 Any student wishing to entertain their guest for a meal in the dining hall shall seek the consent of the mess secretary.

45.1.23 Students leaving the College campus between 8PM to 6AM must obtain prior permission from the Student Service Officer.

45.1.24 Students wishing to take leave on medical ground or for official duties or on personal reason must apply through Student Service Officer with the duly filled leave application form and other evidences attached.

45.1.25 Students who are unable to continue writing assessment examinations on medical ground or if they are required to attend urgent official duties, or if they are required to leave because of parents' death, valid documents must be produced to enable themselves to sit for assessment or re-assessment examinations.

45.1.26 All medical leaves should be routed or verified by the College Health Assistant (HA).

45.1.27 Any student who has produced falsified medical prescriptions shall be viewed seriously by the College management.

45.1.28 All medical prescriptions from hospitals across the border shall not be entertained if it is not obtained thorough referral prescription from a government hospital in Bhutan.

45.1.29 Students are required to respect and practice the traditional customs and etiquette in all places of activity as prescribed by the College.

45.1.30 Students shall maintain decorum and decency regarding dress and behavior in the dining hall.

45.1.31 Students must maintain proper dress code, especially in the classrooms, library, and common rooms. Improper attires are construed as an act of indiscipline.

45.1.32 The hostel residents are required to observe "silence hours" between 8:30 PM to 6:00AM.

45.1.33 Students are expected to participate in extracurricular activities with true sportsmanship spirit and in proper attire.

45.1.34 All extracurricular activities must be carried out with decorum. Such activities shall not be allowed to carryon beyond the given time.

45.1.35 Students found to steal or involved in theft cases shall be viewed as a serious breach of discipline and may result into expulsion from the College.

45.1.36 Students found to have or involved in forgery cases, misuse of identity cards and impersonation will be subjected to legal actions under the law.

45.1.37 Students found to have involved in sexual harassment or commit rape shall result into serious consequences leading to expulsion from the College.

45.1.38 If a female student is found pregnant, clause 1.16 of the RUB Student Code of Conduct and Ethics shall be applied which states "A pregnant student will be asked to leave the College immediately during the course of her studies. No study span period shall be considered. She will be allowed to repeat the semester from the next session. However, if she is medically fit, she may be allowed to complete the semester."

45.1.39 A student wishing to publish any article of research and innovation on national or international publication must seek prior approval from the Office of Dean of Research and Industrial Linkages through his/her research supervisor to ensure research ethics and norms.

45.1.40 Ragging: Ragging refers to any act which demeans a person or causes annoyance, hardship or physical and psychological harm to others. Any student found to be involved in such cases shall be serious consequences as the College Regulations.

45.1.41 Any students are expected to keep neat, clean, and well-groomed haircut, and not adhering to it, will not allow to register during the registration time.

46 Accommodations policy

The following hostel accommodation policy **came in effect from January 2022**

46.1 All the students (excluding repeaters) shall be provided hostel rooms.

46.2 All students who are repeating the course **shall not be entitled** hostel accommodation facilities unless there are vacant rooms.

46.3 Students belonging to the same batch(year) shall be provided accommodation in the same hostel as far as possible.

46.4 As per the space norms of RUB 2020, international students may be provided with single/double occupancy rooms in a separate block. However, they may be allowed to stay in hostels occupied by domestic students or take up private residency based on their choice.

Sanctity of the hostel

1. The rooms, common areas and surroundings of the hostels should be kept clean at all times.
2. The College shall be responsible for maintenance related to normal wear and tear of the hostel properties.
3. Students shall be responsible for damages to the room and facilities provided during their occupancy. The cost of damages/loss of hostel property shall be assessed by the Estate Manager and recovered from the student/s responsible by the SSO.
4. Students shall be responsible for damages on walls in their rooms caused by the use of nails, glue and other adhesives. The cost of such damages shall be assessed by the Estate Manager and recovered from the student/s responsible.
5. The cost of repair/replacement of damages or loss in the common hostel areas which cannot be attributed to any particular student shall be recovered from all students living in that hostel.
6. Paintings, art or graffiti of any sort on hostel walls is prohibited.
7. Pasting of obscene pictures and other inappropriate images is prohibited.
8. Students shall not indulge in any illegal and unethical activities in the hostel premises.
9. Silent hours shall be observed from 8:30 pm to 6 am in the morning.
10. The use of audio systems which may cause inconvenience to other students is prohibited.
11. The visit of boys to girls' hostel and vice versa is restricted.
12. Pets are not permitted inside the hostels.
13. Students shall not relocate common room electrical fixtures and fittings.
14. The SSO, hostel Councilor and the College Management may, at any time, without serving notice visit the rooms for administrative reasons.
15. The College reserves the right to remove any equipment deemed unsafe for use in the hostel.
16. Alcohol and tobacco related products are prohibited in the hostels. Students shall switch off the fans, lights and any electrical appliances when they leave the room.

Hostel Security

a. Students are encouraged to vacate their rooms during vacations to prevent loss of personal items. The College shall not be held responsible for the loss of personal items due to failure to vacate the rooms.
b. Students are advised not to bring valuable items to the College. The College shall not be responsible for the loss of such items.
c. Students shall not leave the College campus without prior permission from the College authorities.
d. Students shall refrain from the use of personal conveyance within the College premises, unless authorized by the Hostel Management Committee.

Visitors to the Hostel

i. Visitors to the hostels, including parents shall seek prior permission from the SSO.
ii. Visitors who are intoxicated or whose behaviour may disturb the residents shall not be permitted into the hostels.
iii. Visitors shall not be allowed to bring in any intoxicative substances or weapons of any kind.
iv. Visitors shall not be allowed to stay overnight in the hostel unless authorized to do so.

v. Respective student/s shall be held fully responsible for any misconduct / offence that may arise on account of a visitor.

47 Hostel facility management

47.1 The hostel rooms will be provided with adequate facilities; however, any damages and replacement needed shall be borne by the occupants.
47.2 Any kind of damages in the facilities in the hostel rooms and hostel premises shall have to be borne by the students residing in those hostels.
47.3 The damages in the toilet and washroom facilities because of inappropriate use of toiletry items shall have to be borne by the students residing in that particular hostel block.
47.4 Hostel room and corridor wall painting will be done once every four years. If there are damages made before the scheduled painting, the re-work expenses will have to be borne by the students of that hostel block.
47.5 Every student residing in the hostel room shall pay their own electric bill if the consumed unit amount crosses Nu.50.00 per month per student.
47.6 The current hostel room rent per student is Nu.250.00 and this shall be subjected to revision as and when deemed necessary.
47.7 All who reside in the hostel shall undertake to comply by the prescribed hostel rules and regulation. Anyone found to violet the stated and implied rules shall be terminated from the use of hostel facilities.
47.8 The College reserves the right to revise the policy as and when deemed necessary with no prior notifications.

48 Disciplinary action

Based on the documented reports or evidences or having witnessed the situation, the Student Service officer or the Dean of the Student Affairs shall apprise the College disciplinary committee on the alleged violation of the College rules and present the accused student(s). The committee may conduct a comprehensive assessment of the situation further to the reports or evidences presented and decide on the disciplinary course of action.

48.1 Penalties

In accordance to the decisions passed by the College Disciplinary Committee, any of the following forms (categories) of penalties may be chosen to enact or as per the students code of conduct and ethics.

48.1.1 Disciplinary probation.
48.1.2 Withholding of grades, official transcript, and/or degree.
48.1.3 Bar against readmission.
48.1.4 Restitution or reimbursement for damage to or misappropriation of College property.
48.1.5 Suspension of rights and privileges, including participation in athletic or extracurricular activities.
48.1.6 Fail grade for an examination or assignment or for a course and/or cancellation of all or any portion of prior course credit.
48.1.7 Denial of degree.
48.1.8 Suspension from the institution for a specified period of time.
48.1.9 Expulsion.
48.1.10 Revocation of degree.
48.1.11 Other penalty as deemed appropriate under the circumstances.

49 Appeal

While students have rights to appeal against the disciplinary decisions such as penalty, the

College Discipline Committee may hear and entertain the appeal or reject the appeal with no additional explanations to the disciplinary decisions passed.

Constituents of the College Disciplinary Committee

President (Chair)
Dean of Student Affairs (Member)
Dean of Academic Affairs(Member)
Dean of Research and Industrial Linkages (Member)
Concern Department Head/PL (Member)
Student Service Officers of the hostel Concerned (Members Secretary)
Head of Student representative (Members)
Student Councilor of the hostel Concerned (Member)

50 Meaning of misconduct

a) Misconduct shall mean conduct on the part of the students which unreasonably:
b) Impairs the freedom or take undue advantage of other persons in the College.
c) Disrupts the due processes of the College.
d) Causes damage to College properties.
e) Cause defamation to academic standing or reputation.

Without limiting the generality of above stated misconducts, a student is guilty of misconduct if:

1. Willfully disrupts or obstructs any teaching or research activity, examination, official meeting, ceremony or other proceeding of the College.
2. Willfully obstructs or attempts to obstruct or deter a member of the staff of the College in the performance of that member's duties.
3. Willfully interferes with the freedom of movement within the College of any staff, student, guest or visitor.
4. Willfully interferes with the freedom of speech within the College of any staff or student or of any speaker with a legitimate invitation to speak.
5. Willfully, recklessly or negligently engages in conduct which results in or involves injury to any person or loss or destruction of, damage to or interference with any premises, facility or property.
6. Enters a part of the College premises to which entry is prohibited, to which entry is permitted only with authority or where the student knows, or ought reasonably to know, that entry to that area is prohibited or is permitted only with authority, as the case may be.
7. Unlawfully assaults, or attempts to assault, a person on College premises.
8. Willfully damages or wrongfully deals with property of the College or property of a person on College premises.
9. Cheats, acts dishonestly or unfairly or assists another person to cheat or act dishonestly or unfairly, or attempts to do so, at or in connection with an examination, test, assignment, dissertation, thesis or other means of academic assessment conducted by or on behalf of the College.
10. In an attempt to gain academic credit, plagiarizes the work of another.
11. Without lawful authority, obtains access to or alters or attempts to gain access to or to alter, a document or record kept by the College, whether kept in hard copy, electronic or other form.
12. Without lawful authority discloses to a person information relating to the College or its affairs which is of a confidential nature and which the student knows, or ought reasonably to know, to be confidential.
13. Fails to comply with a reasonable direction given by a member of staff of the College.
14. Fails to disclose his or her name and address or to produce evidence of identity when required to do so by a member of staff who reasonably requires the information for the

performance of their duties including: making an enquiry or investigation to which the identity of the student is relevant or needing to know the student's identity to report the alleged misconduct to another member of staff contravenes or fails to comply with a provision of a Statute, Rule or Policy of the College.

15. Fails to comply by the decisions passed by the College.
16. Unwelcome sexual advances or request for sexual favors, and other verbal and physical conduct of asexual nature.
17. Forced sexual intercourse, sexual assault, sexual intercourse between an adult and a minor or adult to adult including forced oral and other sexual acts.

51 Leave Application

51.1 **Medical leave during regular sessions**: A student will be considered for medical leave only if the College HA/hospital prescription is presented to the respective tutors in the following class. A student need not produce an office order or bed rest. Any late submission of prescription shall not be entertained as a medical leave.

51.2 **Bereavement leave:** A Student (or by his/her friend) shall apply for the leave to the SSO after filling up the leave application form and attaching the copy of the evidence/death certificate.

51.3 **Official Leave:** A student is required to fill up the leave application form and attach the copy of the evidence and submit to the respective Programme Leader who shall then process for the leave order.

51.4 **Weekday (College day):** If you are availing during your class time, you have to inform your respective Head of Department/Programme Leaders after getting medical prescriptions from college infirmary.

51.5 **Weekend (Saturday and Sunday):** If any students going out of Hostel within Phuntsholing town, students should have to fill the leave application form and submit to any of the SSOs. But if students are going beyond Phuntsholing, you need to get signed from DSA and submit the leave application to SSOs. In this case class attendance will be not taken care.

51.6 **Domestic Problem:** In this case, student should write an application to DSA , depending on the nature the problem, leave will be considered officially.

52 Important reminders

52.1 **Substance Abuse:** Phuentsholing city has many distractions. Students are reminded to refrain from abusing substance of abuse. If a student is found to have been involved in any form of substance abuse shall be TERMINATED FROM THE COLLEGE WITHOUT ANY APPEAL.

52.2 A student MUST have an attendance of 90% in each module. It is the responsibility of students to fulfil the attendance criteria. If the attendance fall short of 90%, the student will be DECLARED FAILED in that module. The student will repeat in that failed module in the next available semester WITH ATTENDANCE.

52.3 Students are required to maintain the behaviour and decorum as deemed appropriate at the centre of higher learning.

52.4 If a student fails in the semester, the candidate will be required to repeat the semester at their own cost.

52.5 If a student fails to attend the morning assembly the stipend for that week will not be paid.

52.6 If there are any changes in the details of the undertaking form, students are required to immediately intimate it.

52.7 The Student Handbook should be updated and produced during the registration of every semester.

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