RE-STRUCTURING YOUR BRAIN TO DISCOVER **engineer in you**



Information booklet 2023



INSPIRING MINDS...

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Introduction

Affiliated to the Institute of Engineering, Tribhuvan University, Sagarmatha Engineering College (SEC)is a premier educational institution in Nepal, dedicated to providing high-quality engineering education and fostering innovation and research. Established in 2010 AD with the vision of becoming a leading center of excellence in engineering, SEC offers the following undergraduate programs:

- Bachelor of Civil Engineering
- Bachelor of Computer Engineering and
- Bachelor of Electronics, Information & Communication Engineering

Sagarmatha Engineering College:

- Provides state-of-the-art infrastructure, wellequipped laboratories, a comprehensive library and extensive resources to create a vibrant learning environment that encourages hands-on exploration and experiential learning.
- Provides, through its dedicated and experienced team of faculty members, guidance, mentorship, and personalized attention to the students to ensure them receive a comprehensive education that goes beyond theoretical knowledge.
- Provides practical exposure, internships, and job placement opportunities to its students through partnerships with industries, government agencies, and academic institutions, facilitating a seamless transition from academia to the

professional world.
Encourage faculty and students to engage in research activities, collaborate across disciplines, and develop innovative solutions to address real-world challenges.
Aims to empower students to contribute to the sustainable development and advancement of Nepal and the global community.

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- Strives to create an inclusive and diverse learning environment that celebrates individual differences and promotes equal opportunities for all.
- Organizes workshops, seminars, and training programs to enhance the professional and leadership skills of students, preparing them for successful careers in their chosen engineering fields.

🕑 Vision

To be the center of excellence in engineering education, research, and innovation for the advanced and sustainable society.

👤 Mission

- To provide quality engineering education that combines theoretical knowledge with practical skills, fostering critical thinking and creativity.
- 2. To foster a vibrant learning environment that encourages innovation, research and entrepreneurship, empowering students and faculties to contribute to the Knowledge development and dissemination
- 3. To cultivate partnerships with industries, government agencies, and international institutions to enhance collaboration and experiential learning
- To promote lifelong learning among faculty, staff, and students through continuous professional development programs and industry-oriented training.
- 5. To contribute to the sustainable development of the society by addressing the lengineering needs, infrastructure

challenges, and environmental concerns.

6. To instill a sense of social responsibility and cultural sensitivity among students, preparing them to be responsible citizens and global leaders.

ቻ Goal

- Academic Excellence: Strive for academic excellence by delivering rigorous and up-todate curricula, engaging faculty, and stateof-the-art facilities to ensure our students receive a high-quality education.
- Research and Innovation: Promote a culture of research and innovation among faculty and students, encouraging interdisciplinary collaborations and addressing local and global challenges through innovative solutions.
- Industry Collaboration: Foster strong partnerships with industries, organizations, and professional bodies to enhance practical exposure, internships, and placement opportunities for our students. Collaborate on research projects and industry-driven initiatives to bridge the gap between academia and industry.
- Ethical and Responsible Engineering: Instill a sense of ethical practices and social responsibility in our students, emphasizing sustainable engineering practices,

environmental stewardship, and the consideration of social, cultural, and economic impacts in their work.

- Student-Centric Learning: Create a studentcentric learning environment that promotes active learning, critical thinking, teamwork, and leadership skills. Offer opportunities for personal and professional development, nurturing well-rounded individuals.
- Community Engagement: Encourage students and faculty to actively engage with the community through social initiatives, outreach programs, and technology transfer, contributing to the development of local communities and addressing societal needs.
- 7. Continuous Improvement: Regularly review and update our programs and curricula to keep pace with advancements in engineering and technology. Embrace feedback from stakeholders to ensure continuous improvement in all aspects of our institution.
- Internationalization: Foster international collaborations, student exchange programs, and global exposure to enhance crosscultural understanding and broaden students' perspectives.
- Alumni Network: Establish and maintain a strong and supportive alumni network, facilitating lifelong connections and collaborations between our graduates, current students, and the institution.

Facts & Figures



Current Students 500+

Student -Faculty Ratio **12:1**

Alumni 800+

Placements



International Collaborations **27+**

Industry Partners **30+**

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MESSAGE FROM THE CHAIRPERSON



academic excellence, innovation, and ethical values. Our team of experienced faculty members is committed to imparting knowledge, nurturing critical thinking skills, and encouraging students to push boundaries. We understand that engineering goes beyond classrooms and textbooks. Therefore, we encourage students to engage in practical experiences through internships, research projects, and industry collaborations. We believe in equipping our students with the skills and competencies needed to excel in their chosen fields.

I extend my wholehearted support and encouragement to our students as they embark on this exciting journey of learning, growth, and exploration. I urge you all to make the opportunities provided by SEC, seize every chance to expand your knowledge, and embrace the challenges that lie ahead. I am confident that with our collective efforts, SEC will continue to nurture future leaders who will make a positive impact on society. Together, let us strive for excellence, innovation, and integrity.

I would like to extend my best wishes for a successful and fulfilling academic journey at Sagarmatha Engineering College.



Er. Niranjan Shrestha Chairperson Er. Niranjan Shrestha Chairperson

Er. Ramesh Kumar Shrestha Member Secretary/Principal

> Mr. Kishor Kumar Chalise Member

Board of Directors

Er. Manish Aryal Member

Er. Dil Bahadur Chhetri Member



Er. Ramesh K. Shrestha Principal



Er. Dakshina Shrestha Vice Principal, Academics



Er. Arun Prasad Parajuli Vice Principal, Administration



Mr. Dinesh K. Shrestha Head, IT Services



Head

Er. Sudeep Lamsal Department of Civil Engineering



Er. Bharat Bhatta Head Department of Electronics & Computer Engieering



Welcome to Sagarmatha Engineering College (SEC), an institution under the umbrella of Institute of Engineering, Tribhuvan University, Nepal.At SEC, we are committed to providing with a transformative learning experience to our students and equip them with the skills needed to thrive in the dynamic field of engineering. Our dedicated faculty members, who are experts in their fields, will guide you through a blend of theoretical knowledge and practical application. Our stateof-the-art facilities and well-eauipped laboratories provide the perfect environment for hands-on learning and innovation. SEC is not just about academics;

we value holistic development. We promote ethical values. social responsibility, leadership abilities and teamwork.

preparing students to

become not only competent

professionals but also responsible citizens. SEC emphasizes students' involvement in extracurricular activities, industry internships, and research projects to enhance their skills and broaden the horizons.

At SEC, we value inclusivity, diversity, and community engagement. The vibrant and supportive college community empowersstudents to explore their potential, make lifelong connections, and contribute positively to society.

l invite you to join Sagarmatha Engineering College and be part of our mission to shape the future of engineering in Nepal and beyond. Together, let us embark on a transformative educational journey that will pave the way for the success and make a difference in the world. Thank You!

Sund

Ramesh K. Shrestha Principal



Sagarmatha?

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Our career services team offers

for interviews, and building their

professional network

Field work/visit

guidance and assistance to students in

exploring job opportunities, preparing

Regular field visits are arranged by the

These filed visits are aimed at making

students acquainted with the real time

scenarios of what they have learned in

college when and where needed.

class room and text books.

Research Opportunities

We encourage students to engage in

research projects, fostering innovation

research activities and offer opportunities to collaborate with faculty members on

Career Support

S Laboratories

The laboratories at Sagarmatha are equipped with the state-of-the art instruments and equipment. Students have access to the laboratories even during off campus hours. We encourage students to indulge in research activities, and with the set-up we have, our students have a great opportunity here to sharpen their skills.

Guidance and counselling

This unit of the college constantly monitors students on an individual basis. The unit has a special mechanism to spot students who might be facing problems (academic/ non-academic) and work closely with them to help them tackle their problems.

In addition to the reference books available in the college library, students can hold one textbook per subject per semester. Our attempt is to make sure students are not devoid of any books that they might require. At the same time, we encourage students to start a private collection of relevant books of their own.

State-of-the-art Infrastructure

and academic growth.

We have well-equipped labs and modern facilities that allow students to gain hands-on experience and practical exposure to the latest technologies.

Library



The curriculum is designed to align with the industry's demands, ensuring that our graduates are job-ready and competent in current technology trends.



***** Experienced Faculty

Our college boasts a team of highly gualified and experienced faculty members who are dedicated to providing guality education and guidance to our students.

🖌 Holistic Development

Alongside technical knowledge, we emphasize the development of soft skills, teamwork, communication, and critical thinking abilities to produce well-rounded professionals.



💼 İnternship & Industry Partnerships

We facilitate internships and collaborations with reputable companies, providing students with valuable industry experience and networking opportunities





Sagarmatha Career Center _____

Career Guidance and Counseling: We provide personalized career counselling to students, helping them identify their strengths, interests, and career aspirations. We offer insights into various career paths, ensuring that students make informed decisions about their future



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Internship and Placement Support: The Career Center collaborates with leading organizations and industries to secure valuable internships and job placements for our students. We bridge the gap between academia and industry by connecting students with real-world opportunities.

Skill Development:

Through workshops, seminars, and training programs, we enhance students' soft skills. technical abilities, and industry-relevant competencies. This holistic approach equips them with the skills needed to thrive in a competitive professional landscape.

Industry Partnerships:

We facilitate meaningful collaborations with leading industries and organizations. These partnerships offer students exposure to realworld challenges, internships, and placement opportunities, aligning their skills with industry requirements.

Professional Networking: The Sagarmatha Career Center organizes networking events, quest lectures, and industry interactions, enabling students to connect with seasoned professionals, alumni, and experts in their respective fields. These interactions broaden their horizons and provide valuable insights into industry trends.

Entrepreneurship Support: For aspiring entrepreneurs, we offer resources and guidance to nurture innovative ideas. Our center supports students in exploring entrepreneurship opportunities, fostering a spirit of innovation and enterprise.

Alumni Engagement:

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We maintain a strong alumni network. encouraging alumni-student interactions. Alumni mentors provide valuable advice, mentorship, and career guidance to current students, fostering a sense of community and continuity.

Sagarmatha R & D Center

The Sagarmatha Research and Development Center is constituted within Sagarmatha Engineering College as the research and innovation hub with a profound commitment to innovation, excellence, and technological advancement. It serves as the center for cutting-edge research and development initiatives in the fields of engineering, science, and technology. The Center foster a dynamic environment that encourages collaboration, creativity, and ingenuity. Our dedicated team of researchers, engineers, and scholars work

tirelessly to explore novel solutions to real-world challenges.

Led by a team of experienced and passionate researchers, the center strives to bridge the gap between theoretical knowledge and practical application. Through strategic partnerships. collaborative ventures, and a commitment to excellence, we endeavor to contribute significantly to the academic, industrial, and societal landscape.



SRDC Members from Left : Sujan Pokhrel, Manoj Bhatta, Kamala Bhattarai, Pratik Timilsena and Baikuntha Acharya

Mission Statement:

Our mission is to foster a culture of innovation and inguiry, driving transformative advancements in engineering, technology, and allied fields. We are committed to conducting miltidisciplinary research. promoting academic collaborations, and nurturing the spirit of entrepreneurship among our students and faculty members.

Kev Objectives:

Innovative Research: SRDC focuses on innovative research endeavors that address real-world challenges, pushing the boundaries of knowledge and technoloav.

Academic Collaboration: We facilitate collaborations with national and international academic institutions. fostering a vibrant exchange of ideas and expertise.

Industry Partnerships: SRDC actively engages with industry partners to bridge the gap between academia and practical applications, promoting industry-relevant research projects.

Student Development: We provide a platform for students to engage in hands-on research, encouraging them to explore their creative potential and contribute meaningfully to society.

Entrepreneurship Support: SRDC supports budding entrepreneurs by providing mentorship, resources, and guidance, empowering them to transform innovative ideas into sustainable ventures.

Scholarships and Awards



GENERAL SCHOLARSHIP

Based on rules and regulations of the College and the Institute of Engineering, T U., 10% of students enrolled at Sagarmatha Engineering College are considered for the regular and semester scholarships.



MERIT SCHOLARSHIPS

10+2 College Toppers, District Toppers and Province Toppers are eligible for the scholarships



FEMALE SCHOLARSHIPS

All female students who gets enrolled in the college receive scholarship in admission fee



ACADEMIC EXCELLENCE AWARD

Students who secure the top three positions in the university semester exams are awarded with a Merit Certificate along with a cash prize.

Admission Procedure



- Those who have passed the Entrance Examination shall submit an Online Application/ Priority Formthrough the college website (www. sagarmatha.edu.np)
- Based on the guidelines set by the college and the Institute of Engineering, the college shall publish an Admission List
- Those who are selected for admission can start admission process by visiting the college along with the following documents. Admission shall be done as per the schedule, Rules, and Regulation of the College.
 - IoE Entrance Score Card (original)

- Mark Sheet/Transcript of +2 or equivalent (copy)
- Character Certificate of +2 or equivalent (Copy)
- Mark Sheet of SEE or equivalent (copy)
- Character Certificate of SEE or equivalent
- Migration Certificate (Original)
- Citizenship Certificate (copy)
- Two Passport Sized Photos of Applicant
- Passport Sized Photos of Parents and Local Guardian
- Upon completion of the admission, get the "Admission Confirmation Slip" and "Fee Deposit

- Slip" from the college as a proof of your admission confirmation and verify it from IoE Centralized Admission Portal (https://admission.ioe.edu.np)
- Subsequent Admission Lists shall be published as per the schedule provided by Centralized Admission Monitoring Committee, IoE.
- Admission can be cancelled as per the rules and regulations of the college and the Institute of Engineering, T.U.
- The fee structure including other charges along with the payment schedule will be provided to the admitted students.

Intake Capacity

B.E. Civil	48
B.E. Computer	48
B.E. Electronics, Communication	
& Information	48
B.E. Electrical (Proposed)	48

College Time

9:00 am to 5:00 pm Sunday to Thursday. Closed on Friday, Saturday and other holidays as per academic calendar provided by the college.

Attendance

Students are advised not to miss any class. It is mandatory to have 80 % attendance. Students who fail to meet the minimum requirement of attendance are not allowed to sit for final examination conducted by lost.

Dress Code

No particular dress code is maintained by the college. However, students are not allowed to wear anything that is offensive and too casual.

Disgualification

Students are encouraged to excel in every subject. Unable to secure 40 % in the internal marks is considered as Not Qualified (NQ) for final examination. The detail guideline for internal evaluation will be provided to the admitted students later.

Achievers



Hardware Category Winner LOCUS 2021



Winner- Robo Business Cup Yantra 8.0



Best UI Design OSM Hackfest 2022



First Presentation Competition Sagarmatha Techno Fest



First and Second Presentation Competition, KEC Dristi 2.0



Civil Engineering

The Bachelor of Civil Engineering program offers students an excellent opportunity to gain comprehensive knowledge and skills necessary to plan, design, and manage various civil engineering projects, ranging from buildings and bridges to highways, hydropower and water supply systems. This program is designed to equip students with a strong foundation in various aspects of civil engineering, enabling them to contribute to the development of infrastructure and solve complex challenges in the built environment.



I am pleased to welcome you to the Civil Engineering Department of Sagarmatha Engineering College. We are a dynamic and growing department with a strong commitment to providing our students with the knowledge and skills they need to become successful civil engineers.

We have a highly qualified and dedicated faculty who are passionate about teaching and research. We offer a comprehensive curriculum that covers all aspects of civil engineering, from the design and construction of buildings and infrastructure to the management of water resources and environmental protection. We also have a state-of-the-art lab facility that allows our students to gain practical knowledge and experience.

We are confident that our graduates will be wellprepared to make a positive impact on the world.

Er. Sudeep Lamsal Head Department of Civil Engineering

		Teaching Schedule	-			
S. N.	Course	Course Title	We	ekly T	eachin	ng Ho
1	SH 401	Engineering Mathematics I	3	2	F	- "
2	CT 401	Computer Programing	3		3	
3	MF 401	Engineering Drawing I	1		3	
4	SH 403	Engineering Chemistry	3	1	3	-
_		Fundamental of Thermodynamics &	-			
5	ME 402	Heat Transfer	3	1	1.5	
6	ME 403	Workshop Technology	1		3	
		Total:	14	4	13.5	3
/ear:	11			Se	emes	ter
		Teaching Schedule				
S. N.	Course	Course Title	We	ekly T	eachin	ng Ho
	Code	course ritie	L	T	P	T
1	SH 501	Engineering Mathematics III	3	2		
2	CE 501	Applied Mechanics (Dynamics)	2	1		
3	CS 502	Strength of Materials	3	1	1	
4	CE 503	Engineering Geology I	2		1	
5	CE 505	Fluid Mechanics	3	2	1	
6	CE 504	Surveying I	3		3	
7	CE 506	Civil Engineering Materials	2		1	
		Total:	18	6	7	
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5. N.	Course Code SH 603 CE 601	Teaching Schedule Course Title Numerical Methods Theory of Structures II	We L 3	ekly To	emes eaching P 3	ster Hou To
S. N.	Course Code SH 603 CE 601 CE 602	Teaching Schedule Course Title Numerical Methods Theory of Structures II Foundation Engineering	We L 3 3 3	ekly T T 1 3	emes eaching P 3	ster Hou To
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Year: I

Semester: II

		Teaching Schedule				
S. N.	Course	Course Title	Wee	kly Te	eaching	Hours
	Code	course mile	L	т	Р	Total
1	SH 451	Engineering Mathematics II	3	2		5
2	ME 451	Engineering Drawing II	1		3	4
3	EX 451	Basic Electronics Engineering	3	1	1.5	5.5
4	SH 452	Engineering Physics	4	1	2	7
5	CE 451	Applied Mechanics	3	2		5
6	EE 451	Basic Electrical Engineering	3	1	1.5	5.5
		Total:	17	7	8	32

Year: II

Semester: IV

		Teaching Schedule					
S. N.	Course	Course Title	We	ekly Te	kly Teaching Hours		
	Code	course ritie	L	т	Р	Total	
1	SH 552	Probability & Statistics	3	1		4	
2	AR 556	Building Drawing	1		3	4	
3	CE 551	Theory of Structures I	3	2	1	6	
4	CE 555	Hydraulics	4	2	1	7	
5	CE 554	Surveying II	3	1	3	7	
6	CE 552	Soil Mechanics	3	1	1	5	
7	CE 553	Engineering Geology II	2		1	3	
		Total:	19	7	10	36	

Year: III

Semester: VI

		Teaching Schedule				
S. N.	Course	Course Title	We	ekly Te	eaching	Hours
	Code	course rule	L	Т	Р	Total
1	SH 651	Communication English	3	1	2	6
2	CE 651	Design off Steel & Timber Structure	4	2		6
3	CE 652	Building Technology	3	1		4
4	CE 655	Engineering Economics	3	1		4
5	CE 656	Sanitary Engineering	3	1		4
6	CE 653	Transportation Engineering	3	1	1	5
7	CE 654	Irrigation and Drainage Engineering	3	2		5
		Total:	22	9	3	34

Year: IV

		Teaching Schedule					
S. N.	Course	Course Title	Wee	Weekly Teaching Hours			
	Code	course ritie	L	т	Р	Total	
1	CE 751	Computational Techniques in Civil Engineering	3	2		5	
2	CE 752	Engineering Professional Practice	2			2	
3	CE 753	Technology Environment & Society	2			2	
4	CE 754	Construction Management	4	2		6	
5	CE 755	Project II			6	6	
6	CE 765	Elective II	3	1	1.5	5.5	
7	CE 785	Elective III	3	1	1.5	5.5	
		Total:	17	6	9	32	

Semester: VIII



Career Options

After graduation you may develop your career in various fields such as:

- Hydropower
- Construction Management
- Consulting/Contracting
- Manufacturing
- Disaster risk management
- Education
- Water Resources
- Urban Planning
- Structural Engineer
- Geotechnical Engineer
- Sustainability Engineer
- Environmental Engineer
- Transportation Engineer etc.



Computer Engineering

The Bachelor of Computer Engineering program offered by Sagarmatha Engineering College, affiliated to Tribhuvan University, Nepal, is designed to provide students with comprehensive knowledge and skills in the field of computer engineering. This program combines the principles of computer science and electrical engineering to equip students with the necessary expertise to design, develop, and maintain computer systems and software applications.



Welcome to the Department of Electronics and Computer Engineering at Sagarmatha Engineering College, affiliated with Tribhuvan University, Nepal. As the Head of the Department, I am honored to lead a team of highly gualified and dedicated individuals in pursuit of academic excellence. Together, we strive to create a vibrant learning environment that empowers our students to become competent professionals in the field of electronics and computer engineering. The Department of Electronics and Computer Engineering is committed to providing high-quality education and fostering the holistic development of our students through student centric problem based learning environment. We offer a comprehensive curriculum that combines theoretical knowledge with practical application, ensuring that our graduates are well-prepared for the challenges of the industry.

Er. Bharat Bhatta

Head

Department of Electronics and Computer Engineering Sagarmatha Engineering College

ear: I					Sem	ester: I
		Teaching Sched	ule			
S. N.	Course	Course Title	Wee	kly T	eaching	g Hours
	Code	course ritte	L	т	Р	Total
1	SH 401	Engineering Mathematics I	3	2		5
2	CT 401	Computer Programming	3		3	6
3	ME 401	Engineering Drawing I	1		3	4
4	SH 402	Engineering Physics	4	1	2	7
5	CE 401	Applied Mechanics	3	2		5
6	EE 401	Basic Electrical Engineering	3	1	1.5	5.5
		Total:	17	6	9.5	32.5
'ear: II					Seme	ster: III
		Teaching Sched	ule			
S. N.	Course	Course Title	We	ekly	Teachin	g Hours
	Code	course Inte	L	Т	Р	Tota
1	SH 501	Engineering Mathematics III	3	2		5
2	CT 501	Object Oriented Programming	3		3	6
3	CT 502	Theory Of Computation	3	1		4
4	EE 501	Electric Circuit Theory	3	1	1.5	5.5
5	EX 501	Electronic Devices & Circuits	3	1	1.5	5.5
6	EX 502	Digital Logic	3		3	6
7	EX 503	Electromagnetics	3	1	1.5	5.5
		Total:	21	6	10.5	37.5
'ear: II	I				Seme	ester: V
		Teaching Schedu	ule			
S. N.	Course	Course Title	Wee	ekly T	eaching	, Hours
	Code	course ritie	L	Т	Р	Total
1	SH 601	Communication English	3	1	2	6
2	SH 602	Probability and Statistics	3	1		4
3	CT 601	Software Engineering	3	1	1.5	5.5
4	CT 602	Data Communication	3	1	1.5	5.5
-		Computer Organization &			4.5	
5	CT 603	Architecture	3	1	1.5	5.5
6	EX 602	Instrumentation II	3	1	1.5	5.5
7	EX 603	Computer Graphics	3	1	3	7
		Total:	21	7	11	39
′ear: I\	/				Semes	ster: VII
c	Course	Feaching Sched	ule	- Leb	T h -	
5. N.	Course	Course Title	- VVe	екіу	Pachir	Ig Hours
1	MF 708	Organization and Management	3	1		4
2	EX 701	Energy Environment and Society	2	1	1	2
3	CT 701	Project Management	3	1		4
4	CT 702	Computer Network	3	1	1.5	5.5

CT 703 Distributed System

Elective I

CT 707 Project (Part A)

Processing

Digital Signal Analysis and

4 5

6

CT 704

CT 725

Year: I

Semester: II

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Total: 20 6 9

		Teaching Schedule								
S. N.	Course	rse Course Title	Weekly Teaching Hours							
	Code	course ritie	L	т	Р	Total				
1	SH 451	Engineering Mathematics II	3	2		5				
2	ME 451	Engineering Drawing II	1		3	4				
3	EX 451	Basic Electronics Engineering	3	1	1.5	5.5				
4	SH 453	Engineering Chemistry	3	1	3	7				
5	ME 452	Fundamental of hermodynamics and Heat Transfer	3	1	1.5	5.5				
6	ME 453	Workshop Technology	1		3	4				
		Total:	14	5	12	31				

Year: II

Semester: IV

		Teaching Schedu	le				
S. N.	Course	Course Title	Wee	kly T	eaching	g Hours	
	Code	course ritie	L	т	Р	Total	
1	SH 551	Applied Mathematics	3	1		4	
2	SH 553	Numerical Methods	3	1	3	7	
3	EE 552	Instrumentation I	3	1	1.5	5.5	
4	EE 554	Electrical Machines	3	1	1.5	5.5	
5	CT 551	Discrete Structure	3			3	
6	CT 552	Data Structure and Algorithm	3		3	6	
7	EX 551	Microprocessor	3	1	3	7	
		Total:	21	5	12	38	

Year: III

Semester: VI

		Teaching Schedu	ıle					
S. N.	Course	Course Title	Weekly Teaching Hours					
	Code	course ritie	L	т	Р	Total		
1	CE 655	Engineering Economics	3	1		4		
2	CT 651	Object Oriented Analysis & Design	3		1.5	4.5		
3	CT 652	Database Management System	3	1	3	7		
4	CT 653	Artificial Intelligence	3	1	1.5	5.5		
5	CT 655	Embedded System	3	1	1.5	5.5		
6	CT 656	Operating System	3	1	1.5	5.5		
7	CT 654	Minor Project			4	4		
		Total:	18	5	13	36		

Year: IV

Semester: VIII

	Teaching Schedule							
S. N.	Course	Course Title	Weekly Teaching Hours					
	Code		L	т	Р	Total		
1	CE 752	Professional Practice	2			2		
2	CT 751	Information Systems	3	1		4		
3	CT 753	Simulation and Modelling	3	1	1.5	5.5		
4	CT 754	Internet and Intranet	3	1	1.5	5.5		
5	CT 765	Elective II	3	1	1.5	5.5		
6	CT 785	Elective III	3	1	1.5	5.5		
7	CT 755	Project (Part B)			6	6		
		Total:	17	5	12	34		

Career Options

After graduation you may develop your Career in various fields such as:

- Software
- Networking
- Database
- Web & SEO
- Mobile Applications
- Education & Research
- Consulting
- Digital Marketing
- Cloud Computing
- Data Science
- Big Data
- Artificial Intelligence
- Machine Learning etc..



Sagarmatha Civil Engineering Student's Society (SCEnSS)









Events (2079-2080)

-Sketching The Future 1.0 -Sketching The Future 2.0 -Paper Bridge Workshop -Idea Sharing Month



Miss.Sabina Ghimire Acting President

Welcome to our empowering community! We're dedicated to innovation, where your ideas shape the future of civil engineering. Share your brilliance!

Our society creates platforms, fosters encouragement, and explores limitless civil engineering possibilities.

Success requires hard work and determination. Together, let's achieve greatness in building a brighter future in civil engineering. Join us!



Electronics, Communication & Information Engineering

The Bachelor of Electronics, Communication, and Information Engineering program is an undergraduate degree program that combines the fields of electronics, communication, and information technology. This program equips students with the necessary knowledge and skills to design, develop, and maintain electronic systems, communication networks, and information systems. It covers a wide range of topics, including electronics, signal processing, telecommunications, computer networks, software engineering, and information systems.

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Year:

Year: I					Sem	ester: I				
		Teaching Schedule								
S. N.	Course Code	Course Title	We	ekly 1	eaching	g Hours				
			L	т	Р	Total				
1	SH 401	Engineering Mathematics I	3	2		5				
2	CT 401	Computer Programming	3		3	6				
3	ME 401	Engineering Drawing I	1		3	4				
4	SH 402	Engineering Physics	4	1	2	7				
5	EX 401	Digital Logic	3		3	6				
6	EE 401	Basic Electrical Engineering	3	1	1.5	5.5				
		TOTAL	17	4	12.5	33.5				

1	Year: I	I				Seme	ster: III			
			Teaching Schedule							
	S. N.	Course Course Title	Weekly Teaching Hours							
		Code	e	L	т	Р	Total			
	1	SH 501	Engineering Mathematics III	3	2		5			
	2	EX 501	Electronics Devices and Circuits	3	1	1.5	5.5			
	3	EE 509	Control System	3	1	1.5	5.5			
	4	SH 510	Probability and Statistics	3	1		4			
	5	EX 503	Electromagnetics	3	1	1.5	5.5			
	6	EX 510	Instrumentation	4	1	3	8			
			TOTAL	19	7	7.5	33.5			

ar: I	ar: III Semester: V					
		Teaching Schedu	ıle			
N.	Course	Course Title	We	ekly	Teachin	ng Hours
	Code	course rite	L	Т	Р	Total
1	CE 615	Engineering Economics	3	1		4
2	CT 610	Database Management System	3	1	3	7
3	CT 613	Computer Network	3	1	3	7
4	CT 603	Computer Organization and Architecture	3	1	1.5	5.5
5	CT 612	Operating System	3	1	1.5	5.5
6	EX 605	Filter Design	3	1	1.5	5.5
		TOTAL	18	6	10.5	34.5

Year: IV

	Teaching Schedule						
S. N.	Course	Course Tible	Weekly Teaching Hours				
	Code	Course little	L	т	Р	Tota	
1	EX 716	RF and Microwave Engineering	3	1	1.5	5.5	
2	CT 710	Artificial Intelligence	3	1	1.5	5.5	
3	ME 708	Organization and Management	3	1		4	
4	EX 710	Digital Signal Analysis and Processing	3	1	3	7	
5	EX 715	Wireless Communication	3	1		4	
6	EX 725	Elective I	3	1	1.5	5.5	
7	EX 707	Project Part A			3	3	
		TOTAL	18	6	10.5	34.5	

Year: I

5.5 33.5

Semester: VII

	Teaching Schedule						
S. N.	Course Course Title	Weekly Teaching Hours					
		L	т	Р	Total		
1	SH 451	Engineering Mathematics II	3	2		5	
2	EX 452	Microprocessor	3	1	3	7	
3	CT 451	Object Oriented Programming	3		3	6	
4	SH 453	Engineering Chemistry	3	1	3	7	
5	EE 460	Electric Circuits and Machines	4	1	3	8	
6	ME 453	Workshop Technology	1		3	4	
		TOTAL	17	5	15	37	

Year: II

5. N.		Teaching Schedule							
	Course Course Title		We	ekly	Teachir	ng Hours			
	Code	course rule	L	т	Р	Total			
1	SH 551	Applied Mathematics	3	1		4			
2	CT 551	Discrete Structure	3			3			
3	CT 552	Data Structure and Algorithms	3		3	6			
4	Ex 553	Advance Electronics	3	1	1.5	5.5			
5	EX 554	Computer Graphics	3	1	3	7			
6	SH 553	Numerical Methods	3	1	3	7			
		TOTAL	18	4	10.5	32.5			

Year	: 111					Sem	ester: V		
		Teaching Schedule							
s. n.	Course	Course Title		We	ekly	Teachin	g Hours		
	Code	course rule	L	Т	Р	Total			
1	SH 655	Communication English		3	1	2	6		
2	CT 658	Project Management		3	1		4		
3	EX 653	Propagation and Antenna		3	1	1.5	5.5		
4	EX 656	Communication System		4	1	3	8		
5	CT 657	Object Oriented Software Engineering		3	1	1.5	5.5		
6	CT 655	Embedded System		3	1	1.5	5.5		
7	EX 654	Minor Project				4	4		
			TOTAL	19	6	13.5	38.5		

Year: IV

Semester: VIII Teaching Schedule S. N. Course Weekly Teaching Hours Course Title Code L T P Total 3 1 1.5 5.5 EX 756 Telecommunications 1 CE 752 Engineering Professional Practice 2 2 2 EX 757 Energy. Environment Society 2 3 2 4 CT 751 Information Systems
 3
 1
 4

 3
 1
 1.5
 5.5
 5 EX 765 Elective II 3 1 1.5 5.5 6 EX 785 Elective III 6 6 7 EX 755 Project Part B TOTAL 16 4 10.5 30.5

Career Options

After graduation you may develop your Career in various fields such as:

- Telecommunication
- Automation and Control
- Software Design and Development
- Networking
- Database
- Mobile applications
- Measurement & Instrumentation
- Government offices
- Education & Research
- Biomedical Instrumentation
- Robotics
- Al and Machine Learning etc.





Semester: IV



COESIS IN GLIMPSE





ZIST Session with Rob Savoye



ZIST Session with Industrial Experts









Design Workshop & Competition



Social Hour (Lockdown Series)









ZIST Session with Mahabir Pun COESIS HackDay Winners



Maping Mania Worksho





COESIS, Computer Engineering Society in Sagarmatha, emerged as a modest student group at Sagarmatha Engineering College. With a fervent commitment to advancing Computer Engineering and fostering a culture of progress, COESIS has grown into a vibrant community united by shared values of learning and collaboration. Under the motto "Share, Learn, and Grow," COESIS nurtures a culture of curiosity and unity, empowering members to reach their full potential and impacting the tech community.

President, COESIS

COESIS

At our core, COESIS is a dynamic tech community focusing on enhancing students' technical skills. We provide a nurturing space for students to share ideas and experiences, effectively bridging the gap between academic knowledge and industry demands. Our primary objective revolves around creating an exceptional environment for learning and sharing, dedicated to the growth of students by enriching their technical expertise.



Raman Pokhrel President, SEIS

SEIS (Sagarmatha Electronics & Information Engineering Students' Society) is an innovative and dynamic community within Sagarmatha Engineering College, dedicated to exploring the exciting realms of electronics and information engineering. By integrating cuttingedge advancements and promoting interdisciplinary collaboration, SEIS aims to revolutionize the field. It offers a platform for budding engineers to immerse themselves in the fascinating world of Bachelors in Electronics and Information Engineering projects and careers. Through real-world applications, workshops, and handson sessions, SEIS provides unparalleled field experience and equips students with the necessary skills to excel in Robotics and core Electronics as well as Information and Technology.





> STEM Material Design Winner





















International Projects and Partnerships





A" Aalto University



Key Industry Partners

Sagarmatha Engineering College abides by the belief of collaborative efforts for a comprehensive development of students. Our college thus, not only impart quality education but link our students with the industry via our industry partners. Our industry partnerships are a valuable asset, as they provide a range of benefits that can help support the institution's academic and research goals. An extra dimension of learning transpires as it exposes students to different industrial resources and expertise, career opportunities, research fundings and project-based community engagements.





Faculty and Staffs

DEPARTMENT OF ELECTRONICS AND COMPUTER ENGINEERING

Name Er. Bharat Bhatta Er. Baikuntha Kumar Acharya Er. Bipin Thapa Magar

Er. Ramesh Shrestha Er. Dakshina Shrestha

Er. Dil Bahadur Chhetri Er. Manish Arval Er. Amit Khanal Er. Deepak Kumar Singh Er. Saurav Rai Pant Er. Suian Pokhrel Er Shankar Bhandari Fr Anand Kumar Sah Er. Bikash Shrestha Er. Devendra Kathayat Er. Dipesh Shrestha Er. Mohammad Badrudhoia Er. Narayan Adhikari Chhetri Er. Sushant Bhattarai Er. Rajiv Kumar Hyaju Fr Rubash Mali Er. Anian Adhikari Er. Drish Mali

Designation Head/Senior Lecturer Dv. Head/Lecturer Lab/Project Coordinator/ Lecturer Associate Professor/Principal Associate Professor/ Vice Principal Associate Professor Associate Professor Associate Professor Lecturer Lecturer Lecturer Assistant Lecturer Visiting Faculty
Er. Pesal Rai Er. Kobid Karkee Er. Anil Pudasaini Er. Anul Joshi Er. Subodh Raj Satyal

DEPARTMENT OF CIVIL ENGINEERING

Name Er. Sudeep Lamsal Er. Prashant Bagale Fr Roshika Bhattarai Er. Arun Parsad Paraiuli Er. Subodh Sharma Gautam Er. Surva Prasad Adhikari Er. Pushpa Baral Er. Spad Acharya Er. Manoi Bhatta Er. Bharat Arval Mr. Hari Ram Limbu Fr. Sudhir Rimal Mr. Lumadi Pd. Khanal Ar. Padma Jeev Tamrakar Mr. Vijav Kumar Yadav Mr. Rai Kumar Yadav Er. Arun Paudel Er. Prashu Ram Bogati Er. Sajan Shakya

Designation Head/Senior Lecturer Dv.Head/Senior Lecturer Lab/Project Coordinator Associate Professor Associate Professor Senior Lecturer Senior Lecturer Senior Lecturer Lecturer Lecturer Visiting Faculty
Visiting Faculty

Visiting Faculty

Visiting Faculty

Visiting Faculty

Visiting Faculty

Er. Imanath Duwadi Er. Kishor Bagale Thapa Er.Sushma Arayal Er.Sarika Gharana Er.Padam Oli Visiting Faculty Visiting Faculty Visiting Faculty Visiting Faculty Visiting Faculty

Designation

DEPARTMENT OF APPLIED SCIENCES

Name Mr. Kishor Kumar Chalise Mrs. Kamala Bhattarai Dr. Hom Bahadur Baniya Dr. Puskar Raj Pokhrel Mr. Mohan Chhetri Mr. Ramesh Gautam Mr. Hari Ram Limbu Mr. Vijay Kumar Yadav Mr. Raj Kumar Yadav Mr. Sudhir Rimal Mrs. Bobby Pradhan

ADMINISTRATION

Name Er. Ramesh K. Shrestha Er. Dakshina Shrestha Er. Arun Prasad Parajuli Mr. Dinesh K. Shrestha Mr. Dilli Ram Bhattarai Mr. Gaurab Das Basnet Associate Professor Senior Lecturer Visiting Faculty
Designation Principal/Associate Professor Vice-Pricipal, Academics Vice-Principal, Administration Head. IT Services Department Admin. Manager Exam Officer

Ms Karuna Killa Shrestha Mrs. Danu Mava Jaisi Mrs. Laxmi Pandev Mr. Dipendra Shrestha Mrs. Romila Shakya Mr Hari Krishna Adhikari Mr. Damodar Nepal Mr. Chandra K. Tharu Mr. Bijava Chemiong Mrs. Monika Thakuri Mr. Suman Khatri Ms Salina Adhikari Mr. Kiran Jung Mahat Ms. Ayushi Yadav Mr. Aiav Chaudharv Ms. Archana Ghimire Mr. Dhan Bahadur Thapa Mr. Kedar Prashad Acharva Mrs. Aarati Khadka Mrs. Achala Shrestha Mr. Sawan Deula Mr. Dev Ratna Maharian Mr. Bhakta Bd. Bayalkoti Mr Tara K C Mr. Birbal Karki Mr. Dal Bahadur Ban Mr. Prakash Adhikari

Accountant Librarian Public Relation Officer Senior Lab Technician Jr. Officer, Library Ir Officer Administration Store Keeper Associate lab Technician Lab Assistant Office Assistant Account Assistant Front Desk Officer Office Assistant Lab Technician Office Assistant Office Asistant Laboratory Assistant Office Boy Helper Helper Office Helper Gardener Driver Security Security Security Security

Students Testimonials

I was genuinely impressed by how much Sagarmatha College put focus on its students' career alongside the academics.

> **Tisha Manandhar** BCT - 079 Batch

I have explored myself in different dimensions with easy to adapt environment and supportive feedbacks from teachers.

Raman Pokhrel BEI - 076 Batch The college definitely is a better place for extroverted people who are willing to put themselves out their comfort zone and show initiative and innovative thinking.

Saugat Baskota BCE - 077 Batch



Some of our outstanding Alumni

AYUSH KUINKEL Gold Medalist, MSc. Transportation Engineering (AIT) Winner of Nepal Bidhyabhusan 2018 BCE, 2067 Batch



NABIN DHAKAL BCT 2074 Associate Solution Engineer Logpoint Nepal



RAMESH GHIMIRE BEX, 2068 Batch Production Engineer, Facebook Inc.



SUDAN PANDEY

Gold Medalist, MSc. Structural Engineering (AIT) Winner of Nepal Bidhyabhusan 2018 BCE, 2067 Batch



SUNDAR KUNWAR BEX, 2068 Batch Director's Postdoctoral Fellow Center for Integrated Nanotechnologies



SURESH SHRESTHA BCE- 2067 Civil Engineer, Ministry of Water Supply

























Erasmus + Students Mobilty



Learning the lesson of adaptation and independence and managing to facilitate oneself in a culture very different from what we were used to was an important part of the journey for me personally. The learnings remain alongside very beautiful memories down the lane and honestly, the takeaways and experiences are ineffable. I cannot be grateful enough to SEC for providing me with such a fantastic opportunity which I will cherish forever as one of the best and integral parts of my life!

Krishma Manandhar BCT 2074



It was a dream come true for me to spend time in a culture where people celebrate life and enjoy each moment. The connections and the bonds I created in this journey will forever be in my heart. I will always be grateful to Sagarmatha Engineering College and Universidad Politécnica de Cartagena for changing this dream of mine into an actual reality.

Nakul Poudel BCT 2074



It was a thrilling life time experience to enhance our knowledge, visit new places, meet new people, learn about their culture, experience their daily life routine closely and returning with thousands of never fading memories . I cannot thank enough Sagarmatha Engineering College for that wonderful opportunity without which it would never be possible to live the best days of my life.

Sagar Lekhak BEX 2074



Starting something with challenges builds strength while ending it with a success story inspires perseverance. I'm deeply indebted to the management and faculty of Sagarmatha Engineering College for being part of my crucial formative years and nurturing my ambitions in transforming me into a professional engineer. It has been good to cherish all the beautiful memories throughout the 4 years of the journey.

Ujjwal Thapa BCE 2074

Erasmus + Staff Mobility









Quality assurance Training, UPCT, Spain

Affiliated to the Institute of Science and Technology, Tribhuvan University, Sagarmatha College of Science and Technology (SCST) is a premier educational institution in Nepal, dedicated to providing high-quality IT education and fostering innovation and research. Established in 2011 AD with the vision of becoming a leading center of excellence in IT Education. SCST offers the following undergraduate programs:

- Bachelor of Science in Computer Science and Information Technology (B.Sc. CSIT).
- Bachelor of Computer Application (BCA)

The college is a community of intellectuals, faculty members, staff and students that encourages and supports pupils in their quest for a deeper understanding of technology, and fosters a personal commitment to lifelong learning, intellectual growth and the enduring values of engineering education.)

In association with educationalists and professionals from outside the country, Sagarmatha National College was established in year 2013 to provide international standard vocational training courses. In affiliation to Pearson's Education, UK, the college is offering the following Edexcel BTEC Professional courses

- Pearson BTEC Level 3 Extended Diploma in IT Pearson BTEC Level 3 Diploma in IT Pearson BTEC Level 3 Subsidiary Diploma in IT Pearson BTEC Level 3 Certificate in IT Pearson BTEC Level 5 Diploma in Management

- and Leadership

The college has got approval from CTEVT, Nepal to conduct different short term vocational training courses.

SISTER CONCERNS

With a view to provide world class data center facilities in Nepal, Cloud Himalaya was established in year 2013 by the field experts from in and outside the country in association with Sagarmatha Group. Vision of Cloud Himalaya is to empower and facilitate its business partners to focus on their business by outsourcing their data to be managed by experts. Its goal is to provide reliable and secure access to your data so that you can focus more on important goals of your organization.

- Colocation Service
- Cloud Service
- IT Consulting
- Data Center Built
- Application Management
- Software Development

