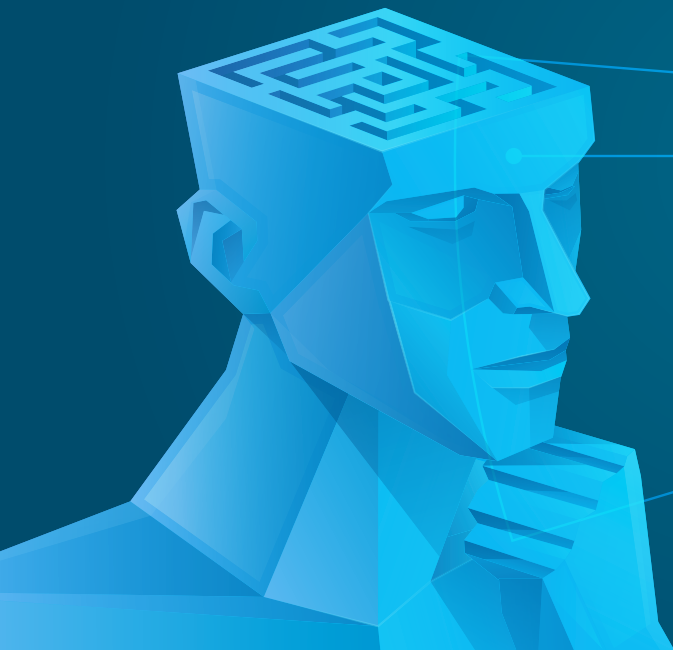


RE-STRUCTURING YOUR BRAIN TO DISCOVER **engineer in you**



Information
booklet



sagarmatha
ENGINEERING COLLEGE
TRIBHUVAN UNIVERSITY AFFILIATE

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**
- **Bachelor of Electronics, Communication & Information Engineering**

Sagarmatha Engineering College:

- Provides state-of-the-art infrastructure, well-equipped 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.

- 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

1. 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
4. 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 engineering 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.

Goal

1. Academic Excellence: Strive for academic excellence by delivering rigorous and up-to-date curricula, engaging faculty, and state-of-the-art facilities to ensure our students receive a high-quality education.
2. 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.
3. 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.
4. 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.
5. Student-Centric Learning: Create a student-centric learning environment that promotes active learning, critical thinking, teamwork, and leadership skills. Offer opportunities for personal and professional development, nurturing well-rounded individuals.
6. 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.
8. Internationalization: Foster international collaborations, student exchange programs, and global exposure to enhance cross-cultural understanding and broaden students' perspectives.
9. 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+

Placements
96%

Student -
Faculty Ratio
12:1

International
Collaborations
27+

Alumni
900+

Industry
Partners
35+

MESSAGE FROM THE CHAIRPERSON



Dear Students, Faculty, and Staff
It is with great pleasure and enthusiasm that I welcome you to Sagarmatha Engineering College (SEC). As the Chairperson, I am honored to be a part of this esteemed institution that is dedicated to shaping the future of engineering education in Nepal. SEC, affiliated with the Institute of Engineering, Tribhuvan University, offers comprehensive Bachelors in Civil Engineering, Bachelors in Computer Engineering, and Bachelors in Electronics, Communication & Information Engineering programs. Our commitment is to provide a transformative learning experience that prepares our students to meet the challenges of the dynamic engineering industry.

We believe in fostering an environment that promotes 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.

A handwritten signature in black ink, reading "Nirajan Shrestha".

Er. Nirajan Shrestha
Chairperson

Board of Directors



Er. Niranjan Shrestha
Chairperson



Er. Manish Aryal
Member



Er. Ramesh Kumar Shrestha
Member Secretary



Mr. Kishor Kumar Chalise
Member



Er. Dil Bahadur Chhetri
Member

Management Committee



Er. Dakshina Shrestha

Principal



Er. Amit Khanal

Vice Principal, Academics



Er. Arun Prasad Parajuli

Vice Principal, Administration



Mr. Dinesh K. Shrestha

Head, IT Services



Er. Sudeep Lamsal

Head
Department of Civil Engineering



Er. Bharat Bhatta

Head
Department of Electronics &
Computer Engineering

MESSAGE FROM THE PRINCIPAL



Welcome to Sagarmatha Engineering College (SEC), a prominent institution for higher education in engineering, affiliated to the Institute of Engineering, Tribhuvan University, Nepal. At SEC, we are devoted to providing a ground breaking educational experience that equips our students with all the essential skills needed to thrive in the ever-evolving field of engineering. Our proficient and experienced faculty members are committed to guiding you through an integrated approach that combines theoretical insights with practical applications. With our advanced facilities and well-equipped laboratories, we offer an excellent environment for hands-on learning and innovation. Education at SEC extends beyond the classroom. We are dedicated to fostering holistic development by promoting moral and ethical values,

civic sense, leadership skills and collaborative teamwork. We encourage students to engage in extracurricular activities, industry internships, and research projects to enhance their competencies and outlook. We take pride in our commitment to inclusivity and diversity. Our vibrant and supportive environment empowers students to explore their potential, build meaningful connections, and make a positive impact on society. We invite you to join Sagarmatha Engineering College and be part of our mission to advance the future of engineering in Nepal and beyond. Together, let's embark on an educational journey that leads to success and makes a significant difference.

Thank you!

Er. Dakshina Shrestha
Principal

Why Sagarmatha?





Career Support

Our career services team offers guidance and assistance to students in exploring job opportunities, preparing for interviews, and building their professional network



Field work/visit

Regular field visits are arranged by the college when and where needed. These field visits are aimed at making students acquainted with the real time scenarios of what they have learned in class room and text books.



Research Opportunities

We encourage students to engage in research activities and offer opportunities to collaborate with faculty members on research projects, fostering innovation and academic growth.



State-of-the-art Infrastructure

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



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.



Library

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.



Industry-Relevant Curriculum

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 qualified and experienced faculty members who are dedicated to providing quality 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.



Internship & Industry Partnerships

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

Sagarmatha Career Center

“

The Sagarmatha Career Center is a dedicated hub designed to empower students with the knowledge, skills, and opportunities necessary to excel in their professional journeys. As a pioneering institution in the field of engineering education, we understand the importance of bridging the gap between academic learning and real-world applications. The Center serves as a pivotal link in this transition, fostering a seamless connection between education and industry.

”



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.



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 real-

world challenges, internships, and placement opportunities, aligning their skills with industry requirements.



Professional Networking:

The Sagarmatha Career Center organizes networking events, guest 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:

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 fosters 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 : Manoj Bhatta, Baikuntha Acharya, Kamala Bhattarai, Pratik Timilsena and Sujan Pokhrel

Mission Statement:

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

Key Objectives:

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

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.

Admission Procedure



- Those who have passed the Entrance Examination shall submit an Online Application/ Priority Form through 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.

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.

Intake Capacity

B.E. Civil	48
B.E. Computer	48
B.E. Electronics, Communication & Information	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 70 % attendance. Students who fail to meet the minimum requirement of attendance are not allowed to sit for final examination conducted by IoE.

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.

Disqualification

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.



MESSAGE FROM THE HOD



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 well-prepared to make a positive impact on the world.

Er. Sudeep Lamsal
Head
Department of Civil Engineering

Year: I Semester: I

S.N.	Course Code	Course Title	Credits	Weekly Teaching Hours			
				L	T	P	Total
1	SH 101	Engineering Mathematics I	3	3	2	-	5
2	SH 103	Engineering Chemistry	3	3	1	3	7
3	CT 101	Computer Programming	3	3	1	3	7
4	CE 101	Engineering Mechanics	2	4	2	-	6
5	EE 103	Basic Electrical and Electronics Engineering	3	3	1	1.5	5.5
6	CE 102	Engineering Geology I	2	2	-	1	3
7	CE 103	Civil Engineering Materials	2	2	-	1	3
		Total	18	20	7	9.5	36.5

Year: II Semester: III

S.N.	Course Code	Course Title	Credits	Weekly Teaching Hours			
				L	T	P	Total
1	SH 201	Engineering Mathematics III	3	3	2	-	5
2	SH 202	Numerical Methods	3	3	1	3	7
3	CE 201	Fluid Mechanics	4	4	2	1	7
4	CE 202	Theory of Structures I	3	3	2	1	6
5	CE 203	Engineering Survey II	3	3	1	4	8
6	CE 203	Computer Aided Civil Drawing	2	2	-	3	5
7	CE 205	Concrete Technology	2	2	-	1	3
		Total	20	20	8	13	41

Year: III Semester: V

S.N.	Course Code	Course Title	Credits	Weekly Teaching Hours			
				L	T	P	Total
1	CE 301	Design of Timber and Masonry Structures	3	3	1	-	4
2	CE 302	Foundation Engineering	3	3	2	1	6
3	CE 303	Design of Steel Structures	3	3	1	-	4
4	CE 304	Transportation Engineering I	3	3	2	1	6
5	CE 305	Sanitary Engineering	3	3	2	1	6
6	CE 306	Engineering Hydrology	3	3	2	1	6
7	CE 307	Engineering Economics	3	3	1	-	4
		Total	21	21	11	4	36

Year: IV Semester: VII

S.N.	Course Code	Course Title	Credits	Weekly Teaching Hours			
				L	T	P	Total
1	CE 411	Operations Research	2	2	1	1	4
2	CE 412	Project and Construction Engineering	4	4	2	-	6
3	CE 413	Hydropower Engineering	4	4	2	1	7
4	CE 425	Elective II	3	3	2	1	6
5	CE 435	Elective III	3	3	2	1	6
6	CE 414	Project I	2	-	-	-	-
		Total	18	16	9	4	29

Year: I Semester: II

S.N.	Course Code	Course Title	Credits	Weekly Teaching Hours			
				L	T	P	Total
1	SH 151	Engineering Mathematics II	3	3	2	-	5
2	ME 158	Engineering Drawing	2	2	-	4	6
3	CE 151	Strength of Materials	3	3	1	1	5
4	CE 152	Engineering Geology II	2	2	-	1	3
5	CE 153	Engineering Survey I	3	3	1	4	8
6	SH 152	Engineering Physics	4	4	1	2	7
		Total	17	17	5	12	34

Year: II Semester: IV

S.N.	Course Code	Course Title	Credits	Weekly Teaching Hours			
				L	T	P	Total
1	SH 251	Communication English	3	3	-	1	4
2	SH 252	Probability and Statistics	3	3	1	-	4
3	CE 251	Hydraulics	4	4	2	1	7
4	CE 252	Theory of Structures II	4	4	2	1	7
5	CE 252	Soil Mechanics	4	4	2	2	8
6	CE 254	Water Supply Engineering	3	3	2	1	6
7	CE 255	Building Technology	2	2	2	-	4
8	CE 256	Survey Camp*	2	-	-	-	-
		Total	25	23	11	6	40

* 10 days survey camp in vacation

Year: III Semester: VI

S.N.	Course Code	Course Title	Credits	Weekly Teaching Hours			
				L	T	P	Total
1	CE 351	Estimating and Costing	3	3	1	-	4
2	CE 352	Design of RCC Structures	4	4	2	2	8
3	CE 353	Transportation Engineering II	3	3	2	1	6
4	CE 354	Irrigation and Drainage Engineering	4	4	2	-	6
5	CE 355	Professional and Social Engineering	3	3	1	-	4
6	CE 365	Elective I	3	3	2	1	6
		Total	20	20	10	4	34

Year: IV Semester: VIII

S.N.	Course Code	Course Title	Credits	Weekly Teaching Hours			
				L	T	P	Total
1	CE 461	Project II	4	-	-	-	-
2	CE 462	Internship **	6	-	-	-	-
		Total	10				

** 12 weeks Internship



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.

MESSAGE FROM THE HOD



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 qualified 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

Year: I

Semester: I

S.N.	Course Code	Course Title	Credits	Weekly Teaching Hours			
				L	T	P	Total
1	SH 101	Engineering Mathematics I	3	3	2	-	5
2	SH 102	Engineering Physics	4	4	1	2	7
3	CT 101	Computer Programming	3	3	1	3	7
4	ME 101	Engineering Drawing	2	2	-	4	6
5	EX 101	Fundamental of Electrical and Electronics Engineering	3	3	1	3	7
6	ME 106	Engineering Workshop	1	1	-	3	4
Total			16	16	5	15	36

Year: II

Semester: II

S.N.	Course Code	Course Title	Credits	Weekly Teaching Hours			
				L	T	P	Total
1	SH 201	Engineering Mathematics III	3	3	2	-	5
2	SH 204	Communication English	3	3	-	1	4
3	CT 201	Computer Graphics and Visualization	3	3	1	3	7
4	EX 201	Microprocessor	3	3	1	3	7
5	CT 202	Foundation of Data Science	3	3	1	3	7
6	CT 203	Theory of Computation	3	3	1	-	4
Total			18	18	6	10	34

Year: III

Semester: V

S.N.	Course Code	Course Title	Credits	Weekly Teaching Hours			
				L	T	P	Total
1	SH 301	Numerical Methods	3	3	1	3	7
2	CT 301	Database Management System	3	3	1	3	7
3	CT 302	Web Application Programming	3	3	1	3	7
4	CT 303	Computer Organization and Architecture	3	3	1	1.5	5.5
5	CT 304	Computer Networks	3	3	1	3	7
6	CT 325	Elective I	3	3	2	1	6
Total			18	18	7	14.5	39.5

Year: IV

Semester: VII

S.N.	Course Code	Course Title	Credits	Weekly Teaching Hours			
				L	T	P	Total
1	EX 416	Digital Signal Analysis and Processing	4	4	1	1.5	6.5
2	CT 411	Distributed and Cloud Computing	3	3	1	1.5	5.5
3	CT 412	ICT Project Management	3	3	1	-	4
4	EX 417	Energy, Environment and Social Engineering	3	3	-	-	3
5	CT 413	Project I	2	-	-	-	-
6	CT 435	Elective III	3	3	2	1	6
Total			18	16	5	4	25

Year: I

Semester: II

S.N.	Course Code	Course Title	Credits	Weekly Teaching Hours			
				L	T	P	Total
1	SH 151	Engineering Mathematics II	3	3	2	-	5
2	CT 151	Object Oriented Programming	3	3	1	3	7
3	EX 151	Electronic Device and Circuits	3	3	1	3	7
4	EX 152	Digital Logic	3	3	1	3	7
5	EE 154	Electrical Circuits and Machines	4	4	1	1.5	6.5
6	SH 153	Engineering Chemistry	3	3	1	3	7
Total			19	19	7	13.5	39.5

Year: II

Semester: IV

S.N.	Course Code	Course Title	Credits	Weekly Teaching Hours			
				L	T	P	Total
1	SH 252	Probability and Statistics	3	3	1	-	4
2	CT 251	Discrete Structure and Algorithm	3	3	1	1.5	5.5
3	CT 253	Data Communication	3	3	1	1.5	5.5
4	EX 252	Instrumentation	4	4	1	1.5	6.5
5	EX 254	Electromagnetics	3	3	1	1.5	5.5
6	CT 254	Operating System	3	3	1	1.5	5.5
Total			19	19	6	7.5	32.5

Year: III

Semester: VI

S.N.	Course Code	Course Title	Credits	Weekly Teaching Hours			
				L	T	P	Total
1	CT 351	Artificial Intelligence	3	3	1	3	7
2	CE 356	Engineering Economics	3	3	1	-	4
3	CT 352	Software Engineering	3	3	1	1.5	5.5
4	CT 353	Simulation and Modeling	3	3	1	1.5	5.5
5	CT 354	Minor Project	1	-	-	-	-
6	CT 385	Elective II	3	3	2	1	6
Total			16	15	6	7	28

Year: IV

Semester: VIII

S.N.	Course Code	Course Title	Credits	Weekly Teaching Hours			
				L	T	P	Total
1	CT 463	Network and Cyber Security	3	3	1	1.5	5.5
2	CT 462	Internship **	4	-	-	-	-
3	CT 465	Elective IV	3	3	2	1	6
4	CT 461	Project II	4	-	-	-	-
Total			14	6	3	2.5	11.5

** 8 weeks Internship

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

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



ALINA GURUNG
PRESIDENT, SCEnSS

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.

Year: I

Semester: I

S.N.	Course Code	Course Title	Credits	Teaching Schedule				
				Weekly Teaching Hours				
				L	T	P	Total	
1	SH 101	Engineering Mathematics I	3	3	2	-	5	
2	SH 102	Engineering Physics	4	4	1	2	7	
3	CT 101	Computer Programming	3	3	1	3	7	
4	ME 101	Engineering Drawing	2	2	-	4	6	
5	EX 101	Fundamental of Electrical and Electronics Engineering	3	3	1	3	7	
6	ME 106	Engineering Workshop	1	1	-	3	4	
		Total	16	16	5	15	36	

Year: II

Semester: II

S.N.	Course Code	Course Title	Credits	Teaching Schedule				
				Weekly Teaching Hours				
				L	T	P	Total	
1	SH 201	Engineering Mathematics III	3	3	2	-	5	
2	SH 204	Communication English	3	3	-	1	4	
3	CT 201	Computer Graphics and Visualization	3	3	1	3	7	
4	EX 201	Microprocessor	3	3	1	3	7	
5	EX 202	Advanced Electronics	3	3	1	1.5	5.5	
6	EE 204	Control System	3	3	1	1.5	5.5	
		Total	18	18	6	10	34	

Year: III

Semester: V

S.N.	Course Code	Course Title	Credits	Teaching Schedule				
				Weekly Teaching Hours				
				L	T	P	Total	
1	SH 301	Numerical Methods	3	3	1	3	7	
2	CT 305	Artificial Intelligence	3	3	1	1.5	5.5	
3	EX 301	Filter Design	3	3	1	1.5	5.5	
4	EX 302	Embedded Systems	3	3	1	1.5	5.5	
5	EX 303	Propagation and Antenna	3	3	1	1.5	5.5	
6	EX 325	Elective I	3	3	2	1	6	
		Total	18	18	7	10	35	

Year: IV

Semester: VII

S.N.	Course Code	Course Title	Credits	Teaching Schedule				
				Weekly Teaching Hours				
				L	T	P	Total	
1	EX 411	RF and Microwave Engineering	3	3	1	1.5	5.5	
2	EX 412	Robotics	3	3	1	1.5	5.5	
3	EX 413	Digital Signal Processing	3	3	1	1.5	5.5	
4	EX 435	Elective III	3	3	2	1	6	
5	EX 414	Project I	2	-	-	-	-	
6	EX 415	Wireless Communication	3	3	1	1.5	5.5	
		Total	17	15	6	7	28	

Year: I

Semester: II

S.N.	Course Code	Course Title	Credits	Teaching Schedule				
				Weekly Teaching Hours				
				L	T	P	Total	
1	SH 151	Engineering Mathematics II	3	3	2	-	5	
2	CT 151	Object Oriented Programming	3	3	1	3	7	
3	EX 151	Electronic Device and Circuits	3	3	1	3	7	
4	EX 152	Digital Logic	3	3	1	3	7	
5	EE 154	Electrical Circuits and Machines	4	4	1	1.5	6.5	
6	SH 153	Engineering Chemistry	3	3	1	3	7	
		Total	19	19	7	13.5	39.5	

Year: II

Semester: IV

S.N.	Course Code	Course Title	Credits	Teaching Schedule				
				Weekly Teaching Hours				
				L	T	P	Total	
1	SH 252	Probability and Statistics	3	3	1	3	7	
2	CT 251	Discrete Structure and Algorithm	3	3	1	1.5	5.5	
3	EX 253	Computer Organization & Architecture	3	3	1	1.5	5.5	
4	EX 252	Instrumentation	4	4	1	1.5	6.5	
5	EX 254	Electromagnetics	3	3	1	1.5	5.5	
6	EX 255	Signals and Systems	3	3	1	1.5	5.5	
		Total	19	19	6	10.5	35.5	

Year: III

Semester: VI

S.N.	Course Code	Course Title	Credits	Teaching Schedule				
				Weekly Teaching Hours				
				L	T	P	Total	
1	CT 355	ICT Project Management	3	3	1	-	4	
2	CE 356	Engineering Economics	3	3	1	-	4	
3	EX 351	Communication Systems	4	4	1	3	8	
4	EX 352	Telecommunication and Computer Networks	3	3	1	3	7	
5	EX 353	Minor Project	1	-	-	-	-	
6	EX 385	Elective II	3	3	2	1	6	
		Total	17	16	6	7	29	

Year: IV

Semester: VIII

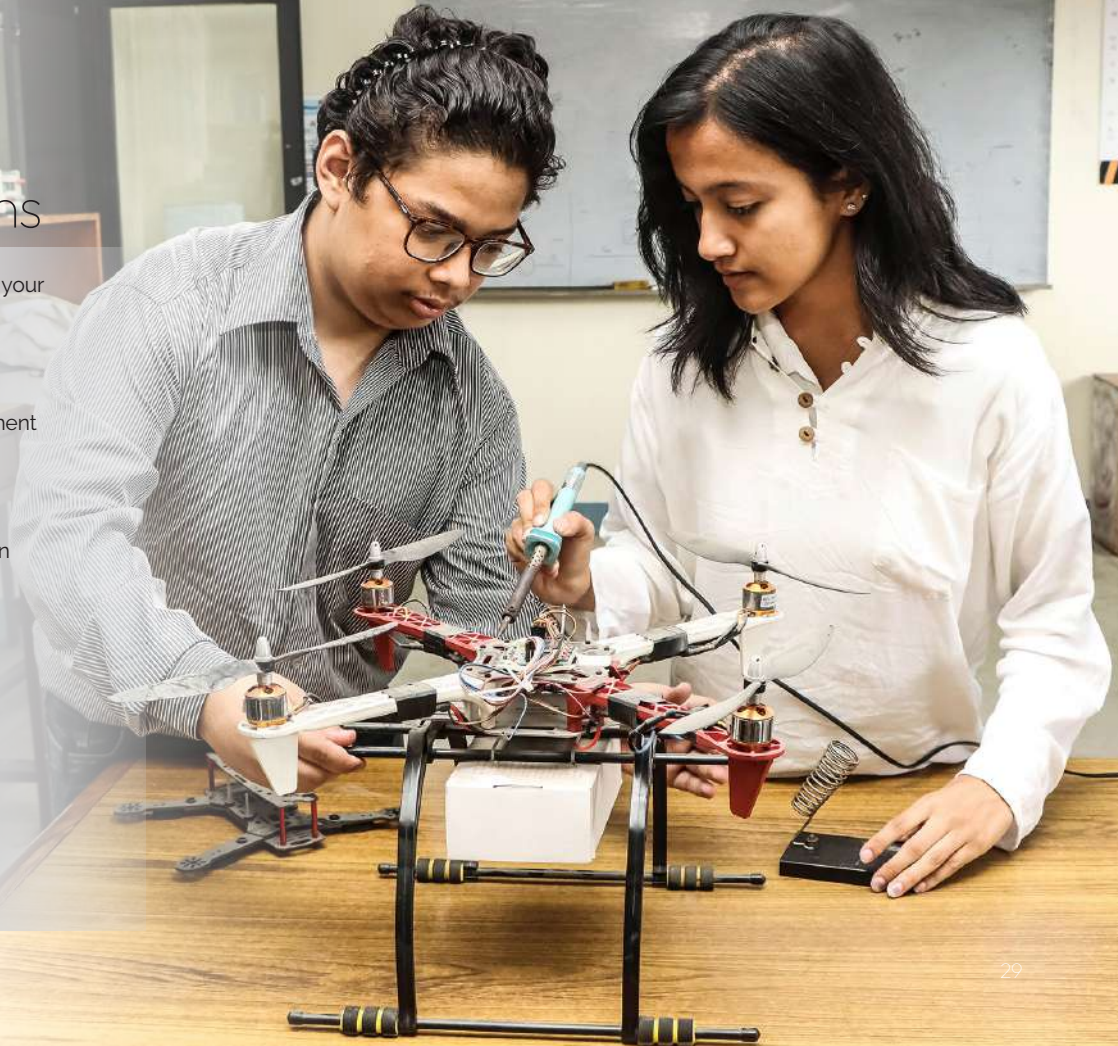
S.N.	Course Code	Course Title	Credits	Teaching Schedule				
				Weekly Teaching Hours				
				L	T	P	Total	
1	EX 463	Energy, Environment and Social Engineering	3	3	-	-	3	
2	EX 462	Internship **	4	-	-	-	-	
3	EX 465	Elective IV	3	3	2	1	6	
4	EX 461	Project II	4	-	-	-	-	
		Total	14	6	2	1	9	

** 8 weeks Internship

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
- AI and Machine Learning etc.



COESIS IN GLIMPSE



SUNAYANA PANDEY
PRESIDENT

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.

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.



COESIS HackDay 2022



Mapping Mania



COESIS HackDay 2022



ZIST Session
with Rob Savoye



ZIST Session
with Mahabir Pun



COESIS HackDay Winners



ZIST Session
with Industrial Experts



ZIST Session on
AI, Its Scope and Trend



Mapping Mania Workshop



GIT & Github Workshop



Design Workshop
& Competition



Social Hour
(Lockdown Series)



SHUBHAM POKHREL
PRESIDENT

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 cutting-edge 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 hands-on 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.



➤ LOCUS 2020 Winner



➤ Microcontroller workshop



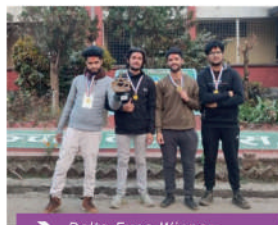
➤ Guest lecture "AI for coding"



➤ STEM Material Design Winner



➤ Blockchain 101 workshop



➤ Delta Expo Winner



➤ Robo soccer competitions



➤ Robotics Training at SEC

Universidad Politécnica de Cartagena



International Projects and Partnerships

“

At Sagarmatha Engineering College, we take pride in our commitment to fostering global collaborations and advancing education through international projects and partnerships.

By engaging with esteemed institutions worldwide, we aim to enhance academic excellence, promote cultural exchange, and create innovative solutions that transcend borders. Join us in shaping a brighter future through our international initiatives.

”



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	Designation
Er. Bharat Bhatta	Head/Senior Lecturer
Er. Baikuntha Kumar Acharya	Dy. Head/Lecturer
Er. Bipin Thapa Magar	Lab/Project Coordinator/ Lecturer
Er. Dakshina Shrestha	Associate Professor/Principal
Er. Amit Khanal	Associate Professor/ Vice Principal, Academics
Er. Dil Bahadur Chhetri	Associate Professor
Er. Deepak Kumar Singh	Lecturer
Er. Sujan Pokhrel	Lecturer
Er. Ramesh Shrestha	Visiting Faculty
Er. Saurav Raj Pant	Visiting Faculty
Er. Anand Kumar Sah	Visiting Faculty
Er. Bikash Shrestha	Visiting Faculty
Er. Devendra Kathayat	Visiting Faculty
Er. Mohammad Badrudhoja	Visiting Faculty
Er. Narayan Adhikari Chhetri	Visiting Faculty
Er. Sushant Bhattarai	Visiting Faculty
Er. Rajiv Kumar Hyaju	Visiting Faculty
Er. Rubash Mali	Visiting Faculty
Er. Pesal Rai	Visiting Faculty
Er. Kobid Karkee	Visiting Faculty
Er. Anul Joshi	Visiting Faculty
Er. Subodh Raj Satyal	Visiting Faculty
Mr. Hari Ram Limbu	Visiting Faculty

Er. Ijhar Khan
Er. Manish Aryal
Mr. Mohan Chhetri
Er. Padam Oli
Er. Pratik Timelsena
Mr. Raj Kumar Yadav
Er. Rohan Maharjan
Mr. Shambhu Pariyar
Er. Shiva Raj Luitel
Mr. Sudhir Rimal
Mr. Vijay Kumar Yadav
Er. Shamsher Kumar Singh
Mr. Roshan Pandey
Er. Shankar Gongaju
Er. Prakriti Dhakal

DEPARTMENT OF CIVIL ENGINEERING

Name	Designation
Er. Sudeep Lamsal	Head/Senior Lecturer
Er. Prashant Bagale	Dy.Head/Senior Lecturer
Er. Manoj Bhatta	Lab/Project Coordinator/ Senior Lecturer
Er. Arun Parsad Parajuli	Associate Professor/Vice Principal, Admin.

Visiting Faculty
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Visiting Faculty

Er. Subodh Sharma Gautam	Associate Professor
Er. Surya Prasad Adhikari	Senior Lecturer
Er. Pushpa Baral	Senior Lecturer
Er. Spad Acharya	Senior Lecturer
Er. Roshika Bhattarai	Senior Lecturer
Er. Satish Phaiju	Senior Lecturer
Er. Subash Dhakal	Senior Lecturer
Er. Bharat Aryal	Lecturer
Mr. Hari Ram Limbu	Visiting Faculty
Er. Sudhir Rimal	Visiting Faculty
Mr. Vijay Kumar Yadav	Visiting Faculty
Mr. Raj Kumar Yadav	Visiting Faculty
Er. Arun Paudel	Visiting Faculty
Er. Prashu Ram Bogati	Visiting Faculty
Er. Imanath Duwadi	Visiting Faculty
Er. Kishor Bagale Thapa	Visiting Faculty
Er. Sushma Arayal	Visiting Faculty
Er. Padam Oli	Visiting Faculty
Er. Basanta Devkota	Visiting Faculty
Er. Binod Khanal	Visiting Faculty
Er. Harshikesh Kumar Karna	Visiting Faculty
Er. Ashmita Koirala	Visiting Faculty
Er. Suraj Sedai	Visiting Faculty
Er. Umesh Pant	Visiting Faculty

Er. Lalit Bhatt	Visiting Faculty
Er. Abhishek Paudel	Visiting Faculty
Er. Sabin Pokhrel	Visiting Faculty
Er. Mahadev Singh Saud	Visiting Faculty
Ms. Jyotsna Nepal	Visiting Faculty
Mr. Chandra Prasad Bhattu	Visiting Faculty
Er. Biben Mulmi	Visiting Faculty
Er. Saroj Adhikari	Visiting Faculty
Er. Mohan Dhoja K.C.	Visiting Faculty
Mr. Mohan Chhetri	Visiting Faculty
Er. Ijhar Khan	Visiting Faculty
Er. Supriya Pandeya	Visiting Faculty
Er. Pranay Nakarmi	Visiting Faculty
Mr. Shambhu Pariyar	Visiting Faculty

DEPARTMENT OF APPLIED SCIENCES

Name	Designation
Mr. Kishor Kumar Chalise	Associate Professor
Mrs. Kamala Bhattarai	Senior Lecturer
Mr. Mohan Chhetri	Visiting Faculty
Mr. Hari Ram Limbu	Visiting Faculty
Mr. Vijay Kumar Yadav	Visiting Faculty
Mr. Raj Kumar Yadav	Visiting Faculty
Mr. Sudhir Rimal	Visiting Faculty
Mrs. Bobby Pradhan	Visiting Faculty

ADMINISTRATION

Name	Designation
Er. Dakshina Shrestha	Principal
Er. Amit Khanal	Vice Principal, Academics
Er. Arun Prasad Parajuli	Vice Principal, Administration
Mr. Dinesh K. Shrestha	Head, IT Services Dept.
Mr. Dilli Ram Bhattarai	Admin. Manager
Mr. Gaurab Das Basnet	Exam Officer
Mr. Chaturbhuj B. Nepali	Accountant
Mrs. Danu Maya Jaisi	Librarian
Mrs. Laxmi Pandey	Public Relation Officer
Mr. Dipendra Shrestha	Senior Lab Technician
Mrs. Romila Shaky	Officer, Library
Mr. Hari Krishna Adhikari	Officer, Administration
Mr. Damodar Nepal	Store Keeper
Mr. Chandra K. Tharu	System & Network Administrator
Mrs. Monika Thakuri	Office Assistant
Mr. Suman Khatri	Accountant
Ms. Salina Adhikari	Front Desk Officer
Mr. Kiran Jung Mahat	Office Assistant
Mr. Puspa Raj Nath	Lab Technician
Mr. Rajesh Phuyal	Lab Assistant
Mr. Ajay Chaudhary	Office Assistant
Ms. Archana Ghimire	Office Assistant

Mr. Dhan Bahadur Thapa	Laboratory Assistant
Mr. Kedar Prashad Acharya	Office Boy
Mrs. Aarati Khadka	Office Helper
Mrs. Achala Shrestha	Office Helper
Mr. Sawan Deula	Office Helper
Mr. Dev Ratna Maharjan	Gardener
Mr. Bhakta Bd. Bayalkoti	Senior Driver
Mr. Tara K.C	Security
Mr. Birbal Karki	Security
Mr. Tika Ram Ale	Security
Mr. Khem Kumar Shrestha	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.”

Abhinash Nepali
BEI - 078 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.”

Sandesh Kandel
BCE - 077 Batch



Some of our outstanding Alumni



AYUSH KUINKEL

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

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



NABIN DHAKAL

BCT 2074
Associate Solution Engineer
Logpoint Nepal

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



RAMESH GHIMIRE

BEX, 2068 Batch
Production Engineer,
Facebook Inc.

SURESH SHRESTHA

BCE- 2067
Civil Engineer,
Ministry of Water Supply





SEC Techno Fest - Civil Exhibition



SEC Techno Fest - Hackathon 3



Welcome Program



SEC Techno Fest - Hardware Exhibition



Spanish Lecture



PBL Program at Hotel Shankar





Radio Nepal Pokhara Visit



Survey Camp



Seti Hydropower Visit



Faculty Mentors Workshop



First Year Idea Sharing

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



Faculty Visit to KTU, Lithuania



UPCT



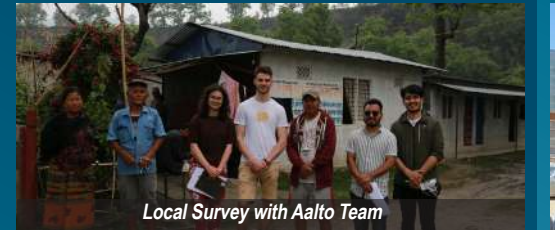
Local Survey with Aalto Team



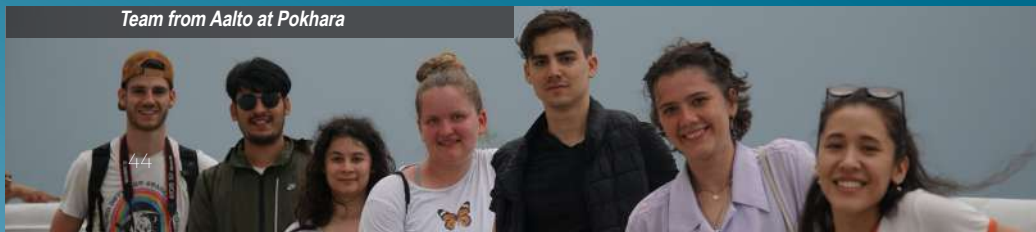
Faculty Visit to TU Delft



Joint Workshop with Aalto Team



Quality assurance Training, UPCT, Spain



Team from Aalto at Pokhara





SEC students at UPCT, Spain



Team from Aalto at Sagarmatha 2



B+NESDG Training at UPCT, Spain



Survey with Aalto team



Faculty Exchange Program



Workshop at UPCT, Spain





SISTER CONCERNS



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.



Location Map



sagarmatha
ENGINEERING COLLEGE
TRIBHUVAN UNIVERSITY AFFILIATE

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Web: www.sagarmatha.edu.np



INSPIRING MINDS...