



# UK's Top 13<sup>th</sup> Ranked University

Guardian University Guide 2019

**Softwarica**  
College of IT & E-commerce

in collaboration with

**Coventry**  
University



About Softwarica College

## Creating and Empowering global Tech Industry leaders

At Softwarica, we promote the idea of learning, informing and empowering for a brighter tomorrow. In recent times, when our students can educate themselves on multiple aspects at the same time on the internet, we would like to provide them the platform to be the best that they can be in the tech world.

## Softwarica College in collaboration with Coventry University

Softwarica College is working in collaboration with Coventry University to offer a range of undergraduate programmes. On successful completion students will receive Coventry University degree award.

Coventry University is a forward-looking, pioneering, modern University. The University is one of the UK's leading Universities, ranked No.13 in the UK in the Guardian University Guide 2019. The University has been awarded TEF gold in the Teaching and Excellence Framework (TEF) 2017 for the quality of teaching.

## About Coventry University

Coventry University is a dynamic, global and transformational 'modern university' whose roots can be traced back to 1843 to the Coventry School of Design. With a proud tradition as a provider of innovative teaching and learning and a focus on impactful research, the university has established a robust reputation for pushing the boundaries of higher education regionally, nationally and across the world.

In recent years Coventry's student satisfaction levels and teaching quality have been rated amongst the best in the UK, which in turn has led to impressive rises in every major university league table. The combination of these successes and its unique approach to developments in the sector – including the Institute for Advanced Manufacturing and Engineering and a new campus in Scarborough – earned Coventry a gold rating in the UK government's Teaching Excellence Framework (TEF) in 2017, and saw it labelled "perhaps the most innovative university in the UK" by the Times and Sunday Times Good University Guide 2018.

It was ranked as the country's top modern university in the Guardian University Guide 2019 for the seventh year running – and was in 13th place overall in the table.

The university was named 'Modern University of the Year' by the Times and Sunday Times for three years running from 2014 to 2016. Coventry also places in the top 200 in the Times Higher Education Young University Rankings 2017.

The university is recognised internationally for its expertise in health, peacebuilding and disaster management, and for the world-leading calibre of its engineering and design graduates – particularly in the automotive field. It was awarded the prestigious Queen's Award for Enterprise in 2015 in recognition of its international growth and success over the past six years.

Coventry's city centre campus itself is continually developing and evolving, and a £500 million-plus investment in a new student centre, engineering and computing building and science and health facility is playing a key role in modernising the entire learning experience.

Coventry University Higher Education Corporations Group (CUHECG) stands for Coventry University and its subsidiaries group. The group is continually growing and so may expand over the course of the Framework.



## A warm welcome

The School of Computing, Electronics and Mathematics recognises the importance of developing a strong practical insight into the subject area of the degree, as well as a solid theoretical foundation. This is achieved through an activity-led learning approach where the academic knowledge is cemented by practical, real-world examples that our students can explore on their own and in groups.

The school's teaching covers traditional courses such as electrical and electronic engineering, mathematics, information technology and computer science, but also more specialised teaching such as forensic computing, games technology, ethical hacking and cybersecurity. We also provide courses that benefit from the synergy between the different subject areas brought together in the school, such as computer hardware and software engineering, and mathematics and data analytics.

The school benefits from tailored and specific research groups in applied mathematics, wireless sensors, serious games and applied computing, all of which feed into our teaching and curriculum design to provide our students at home and at our international partners with an opportunity to explore real-world, front line problems.

Our mission is to provide our students studying overseas with Softwarica College of IT and e-Commerce with the best possible education coupled with an international educational experience and the employability skills they require to prepare them for the global workplace.

We look forward to meeting you.

### **Professor Damien Foster**

Head of School  
Coventry University





## Welcome from our Chairman

There is an excellent scope in Nepal for students who want to pursue their career in Information Technology. The global demand for highly qualified IT professionals is increasing rapidly and Nepal cannot be left untouched. Over the past decade, Nepal has seen growing number of investments from national and multinational companies. Business Process Outsourcing (BPO) has flourished which has increased employment opportunities for youths of Nepal who would like to make a rewarding career out of it. Access to the internet has been more affordable than ever before. As a result, various sectors are reaping advantage of this with the possibility of exponential growth in the near future.

Softwarica College of IT and E-Commerce commenced in the year 2010 with a vision to provide globally recognized education complementing with practical skills to Nepali students for them to be able to compete in the global landscape. Up until recently, we are exporting unskilled labour but I believe we should be able to export products and services powered by technology in the coming decade. For this, we need to invest in human capital to be able to produce knowledge workers and this is where Softwarica plays a key role in the private sector. I am confident that this initiative will be supported and complemented by the government too.

I welcome all prospective students to join our college and learn the latest industry focused IT curriculum to build your strong career with an advantage of a British Degree globally recognized by employers around the world which you will carry along through your life time.

**Bigyan Shrestha**  
Chairman





## Welcome from our Chief

The information revolution is at all time high. In the past few decades, we have witnessed immense changes in the way we live and work in the world which is contracting in terms of reach and mobility. This has all been possible because of advancement in Information and Communication technologies.

As a country, we missed out on 'Industrial Revolution' and up until recently we have not been able to capitalize on the 'Information Revolution' which is taking over the world by storm. The key to exploit this revolution is to develop 'IT Human Resources' that are highly competitive, abreast with modern technologies and socially responsible towards the community. Softwarica College has been guided by this concept since its establishment in the year 2010. Since then, we have generated hundreds of IT professionals who have been working for top notch tech companies in Nepal and across the world. Among them, many have become entrepreneurs who are solving pressing problems and also generating revenues in the process. This was all possible because of the our innovative teaching methodologies that encourages students to combine studies with independent research and practical application.

To further strengthen quality and employability of our students, we have now partnered with Coventry University, UK to deliver undergraduate courses that cater to the modern demands of the IT Industry. This partnership is a perfect match between an institution based in Nepal with a global vision and an institution based in the UK with the international outlook and exposure.

I welcome all prospective students who want to create a trail and leave a legacy in the future to consider Softwarica as your partner to make your country and the world a better place through technology.

**Pramod Poudel**  
Campus Chief







# Programmes Offered

## BSc (Hons) Computing

3 years

Our computing degree is designed to produce graduates with a high level of knowledge across a variety of computing technologies.

Approved by Ministry of Education, Nepal

## BSc (Hons) Ethical Hacking & Cybersecurity

3 years

On this course, students will have the opportunity to learn to identify and analyse the threats posed to modern information structures and develop the knowledge and skills to be able to advise a company on how to set up secure systems.

Approved by Ministry of Education, Nepal



# BSc (Hons) Computing

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Duration : **3 years full-time**  
Credits : **360**

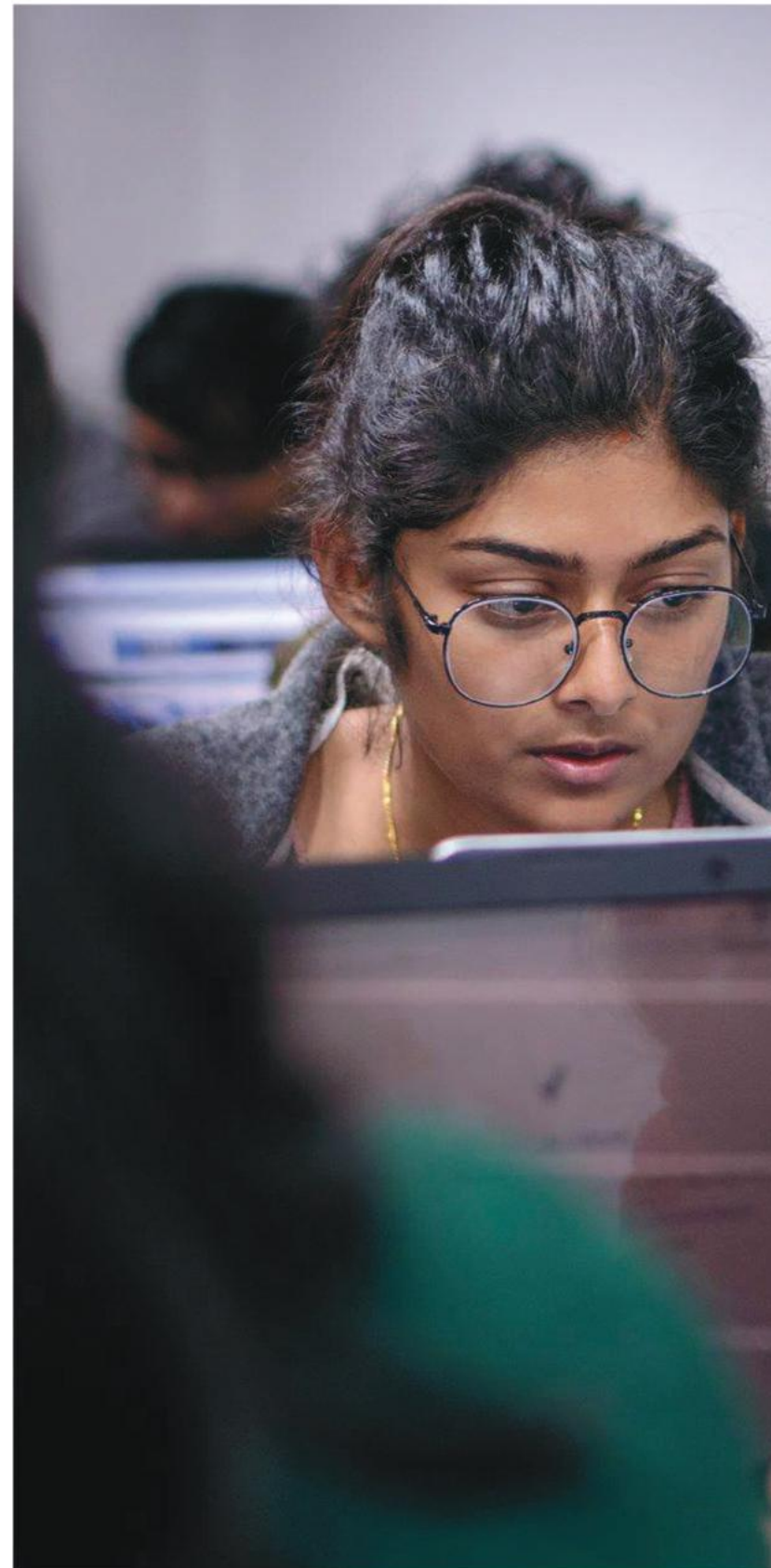
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The uptake of digital technology in society has greatly increased our need for interactive computing devices – now an intrinsic part of everyday life for anything and everything from entertainment and education to healthcare, work and transport.

This course focuses on applying computing concepts, such as web technologies and mobile computing systems, with a focus on software development design, as well as usability and Human Computer Interaction (HCI).

## On successful completion, you should be able to:

- Demonstrate knowledge and understanding of the underlying technology, design methods and programming languages required to practice as an IT professional.
- Appreciate the cultural, commercial, ethical and professional issues connected with the IT industry and professional practice within it.
- Demonstrate awareness of emergent technologies and techniques in the wider computing domain, such as distributed resources, big data and application development.
- Apply appropriate problem-solving techniques and design protocols to computing requirements or issues.
- Research the concept, design and development of a product in the computing domain, providing relevant and useful conclusions in the evaluation of the implementation.



## Year One

The first year of study covers the fundamentals of computing and computer principles including mathematics, programming, computer architecture, usability and information systems.

1. Intercultural Communication Skills for International Students
  2. Enterprise Information Systems
  3. Designing for Usability 1
  4. Computer Architecture and Networks
  5. Introduction to Computing
  6. Introduction to Algorithms
  7. Logic and Sets
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## Year Two

These fundamentals can then be applied to larger scoped problems within the computing discipline in Year Two. You may find yourself tasked with analysing big datasets, designing complete and functioning systems and developing creatively designed mobile apps.

1. Effective Communication Skills
  2. Designing For Usability 2
  3. Developing the Modern Web
  4. Real World Project
  5. Programming, Algorithms and Data Structures
  6. Data Information and Retrieval
  7. Technology and its Social, Legal and Ethical Context
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## Year Three

In your final year, you can select two optional modules from a range of technical computing disciplines, giving you the opportunity to specialise in topics, such as open-source software development. This will enable you to shape your learning to your career aspirations and allow you to study topics you are interested in.

1. Android Applications Development
2. iOS Application Development
3. Agile Development
4. Academic Writing 3
4. Individual Project
5. Web API Development
6. Interactive Pervasive Computing



BSc (Hons)

# Ethical Hacking & Cybersecurity

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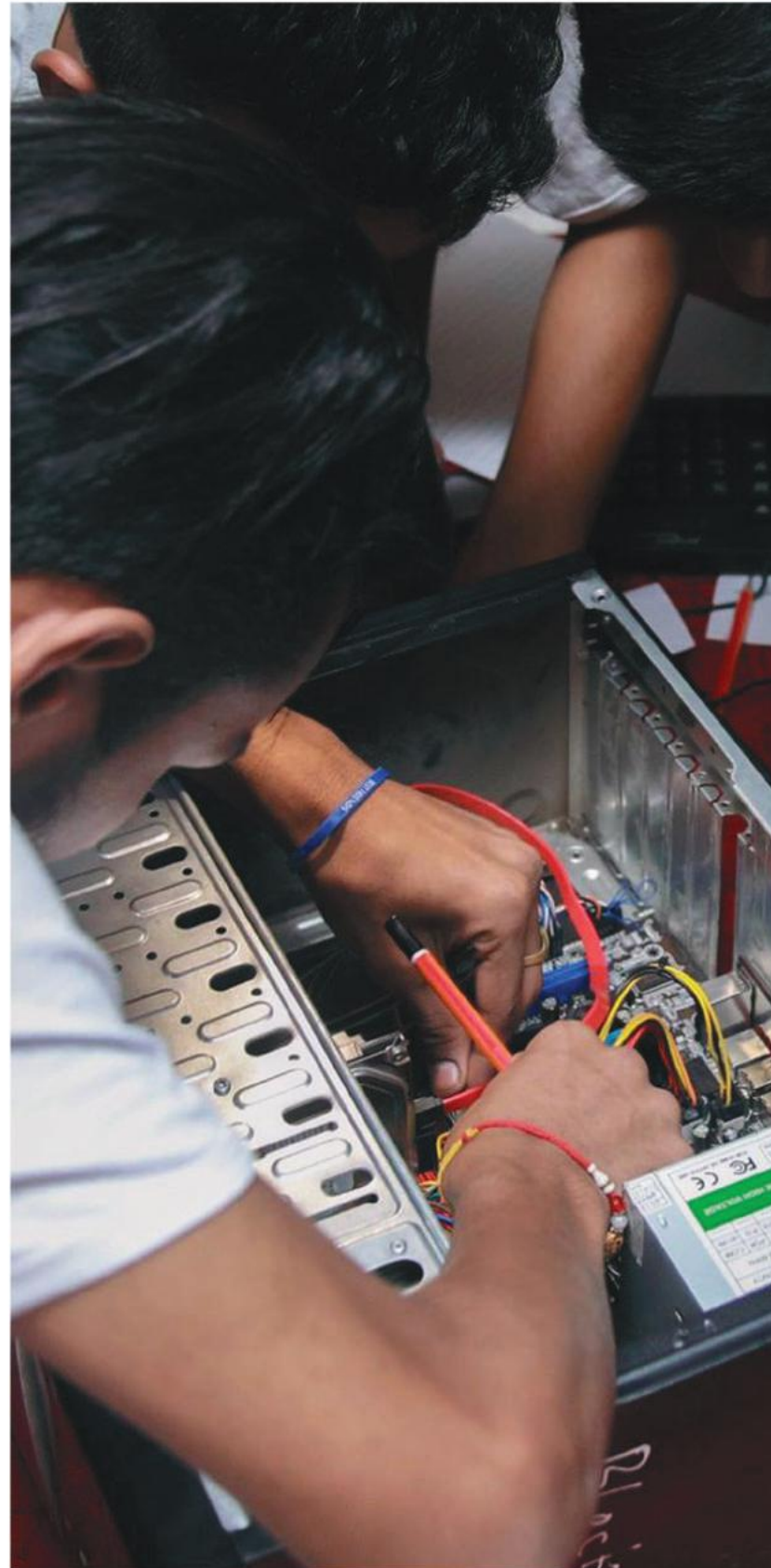
Duration: **3 years full-time**  
Credits: **360**

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The specialist skills and knowledge to thoroughly test the security of computer systems, make them secure and investigate properly if they are compromised are not typically taught within a standard computer science course. In contrast, our course has been developed to provide a good practical and theoretical understanding of cybersecurity, hacking, digital forensics and the underlying computer science.

## On successful completion, you should be able to:

- Demonstrate knowledge and understanding of: The underlying technology, design methods and programming languages required to practice in the domain cybersecurity; the cultural, commercial, ethical and professional issues connected with Ethical Hacking, Digital Forensics and Ethical Hacking and professional practice within them; emergent technologies.
- Apply appropriate design and problem-solving techniques to computing, ethical hacking, cybersecurity and digital forensics requirements or issues.
- Conduct an in-depth investigation and make recommendations relating to the development and implementation of a product in a domain appropriate to Ethical Hacking and Network Security.
- Use design, production and programming tools relevant to cybersecurity, in exploit development and associated areas.
- Apply usability human computer interaction (HCI) design techniques in the context of a product relevant to cybersecurity.



## Year One

The first year focuses on enabling students from a diverse range of backgrounds to make a solid start on their degree courses and understand fundamental principles.

### Modules

1. Intercultural Communication Skills for International Students
2. Digital Forensics Fundamentals
3. Introduction to Computer Security
4. Computer Architecture and Networks
5. Introduction to Computing
6. Introduction to Algorithms
7. Logic and Sets

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## Year Two

In the second year, we explore security-related topics in more depth, from more complex forensic analyses to penetration-testing of black-box networked systems.

1. Effective Communication Skills
2. Real World Project
3. Operating Systems, Security and Networks
4. Intermediate Digital Forensics
5. Ethical Hacking 1
6. Networked System Architectures
7. Technology and its Social, Legal and Ethical Context

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## Year Three

The final year of the BSc course covers advanced topics at the forefront of contemporary practice, such as malware analysis, exploit development and live-memory forensics.

1. Individual Project
2. Data Recovery and Advanced Digital Forensic Analysis
3. Ethical Hacking 2
4. Academic Writing 3
5. Systems Security
6. Advanced Network Management and Design





# EXTENDED EDUCATION

## Value Added Programme

Education should not be limited to books and theories. For that we have started extended education. This includes activity based learning, learning by doing hackathons, career counselling session from industry experts and soft skills training etc. A student can choose to participate in multiple different areas besides their studies to define themselves as a tech-expert. And we help with just that! Have you noticed how your friend is into many things besides just books and lectures? How do they know so many things that you don't? Well, this is the place to change that. This is your chance to be that friend in your circle.

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## DESIGN THINKING

Tackling a problem requires a set of skills and a keen eye to look for solutions. Everyday from problems that concern the wider population to mundane issues in our daily lives, we need to think outside of the box to bring out solutions. We help students learn about the technicalities of Design Thinking and understand the process of Empathizing, Defining, Ideating, Prototyping & Testing to bring out what the world needs right now. Students don't just learn the traits of the trade but also how to bring forth their ideas and make a dent in the world.

## MODEL UNITED NATIONS

Model United Nations is an extra-curricular activity in which students typically role-play as delegates of the United Nations and simulate the UN committees. Never has role-playing been so challenging and of international gravity. Students need to understand the world economics and trends. Students need to pitch in ideas to solve problems, not just their own but of the world's. This would be the stage where the world is looking up to you.

## BOOTCAMPS

Our students participate in annual Bootcamps to help their ideas get a platform to be a massive success. You can have a million ideas but without the proper support and technical knowledge they will end up in one of your notes. We help our students get a direct pass to different Accelerators and Investors to bring their ideas to life. They not only get a platform to share their ideas but also to make it better and above all, make them their own.

**Is your idea the next big thing?**



# WORKSHOPS & TRAININGS

Regular workshops and trainings on various technical and soft-skills are organized for the benefit of students. How many times have you seen a brilliant mind with no presentation skills or no sense of what they are saying? This is a very common problem which our students, never have to deal with. With workshops and training on various technical as well as vocational skills, our students will graduate as all-rounders. And they are the ones who inspire others to be like them.

**Have you met them yet?**

## First Year

### GRAPHICS DESIGN

Our design classes are engineered in such a way that no student- beginner or professional is left out. There's something for everyone.

### EVENT MANAGEMENT

Learning how to perform under pressure, leading a team and the importance of communication is instilled in our students via various events they organize in and out of the campus.

### ROBOTICS

Students will explore and enhance their skills and creativity in the field of robotics, electronics, art and technology.

### WEB TECHNOLOGIES

Students learn about the basics of web development, server knowledge and they are also actively involved in open source projects.

### PRESENTATION SKILLS

We provide our students with knowledge on how to present their ideas in front of a board or a mass. Either way, we teach them to succeed.

### AGILE MINDSET

We teach our students the values of working in a team, respect, collaboration, improvement and learning cycles, pride in ownership, focus on delivering value, and the ability to adapt to change.

## Second Year

### DIGITAL MARKETING

Digital Marketing is the next big thing and our students learn how to use this to their advantage. From promoting businesses to getting their desired audience's attention, they know it all.

### BUSINESS BRANDING

Technology directly influences the world of branding, marketing and advertising these days. Students learn how to be a part of it.

### SOFTWARE ENGINEERING PRACTICES

Students learn the concepts, principles, methods, and tools used by software engineers and managers to plan and develop any software.

### PHOTOGRAPHY

Whether your passion lies in Photography or Videography, we make sure our students learn it all as a welcome addition to the course.

### CREATIVE WRITING

Our students learn about creative writing and their implications on their personal and professional life like Business Proposals, Content Writing, etc.

### GAME DEVELOPMENT

Training on cross-platform game engine- Unity will be conducted for game enthusiasts and lovers of digital games.

## Third Year

### ARTIFICIAL INTELLIGENCE

We teach the principles and practices around artificial intelligence (AI), automation and cognitive system to prepare our students for the future.

### DATA SCIENCE WITH R

With the knowledge of how to make sense of large datasets and finding patterns in them, our students are also equipped with the programming language R.

### AGUMENTED REALITY & VIRTUAL REALITY

Students learn the latest and greatest in VR and their applications in the modern world from medicine to engineering.

### MOBILE APPS DEVELOPMENT

We provide the knowledge on development of mobile apps for different platforms like Android and iOS

### SEO

Students learn the practice of manipulating the traffic or conversion in any website over search engines like Google or Bing.

### SECURITY /TESTING

Our students learn the ins and outs of the softwares, their vulnerabilities and how to secure them to present a full product.



# CAREER FAIR



Softwarica is a part of the yearly IT Career Fairs that are being organized by IT Communities of Nepal. We believe in dipping you into the pool of Tech community very early on. It is essential to know what your career options are and who are your potential employers or investors. You need to know the pay scale and the holiday list but also you need to know what kind of specific skill the community is looking for so that you can be a step ahead in the game.



## International Student Exchange

As a part of learning and sharing experience, our students get a chance to visit different countries and students. They get an opportunity to explore different ideas, culture and study methods. The exposure students get from this is very high and results in a multidimensional development. As a part of the course, students enjoy travel as well as learn in a completely new and exciting environment.





# Find your true calling







# STUDENT CLUBS

Student clubs at Softwarica College have been formed to organize various extracurricular activities for students. Because we can only do so much, we have given you a major part of responsibility- the Student Clubs. From the book club to the cultural society, you can decide what kind of clubs you want to open up inside the campus and make your time at the campus more fun. Our students, from different clubs, organize programs for the rest of the students. This brings new reason to come to college everyday.



## Life at Softwarica

We believe learning should never be boring and so at Softwarica we provide our students with a fun and immersive environment where they can holistically develop and hone their skills. Our study, faculty and student support programmes bring together a whole new dimension to education. We challenge the idea that learning is just between bookshelves and get our students the exposure they require and look for.





I was so lucky to participate in different activities like MUN, Saptari Floor Relief (along with US Embassy Youth Council) and other college activities. Softwarica gives me a chance to take my studies and my activities parallelly. I also got support from Softwarica to take part in the 7th national game for Table tennis.

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**Bipin Acharya**  
Student Council President  
Batch 16

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Students get together to enjoy some Wall Climbing session after college.





With many student clubs, my passion as well as my education are going hand in hand. I am looking forward to enhancing my software development skills as well as public speaking and leadership skills.

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**Mili Risal**  
Class Representative  
Batch 25

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Celebrating Holi, the festival of colors at Softwarica premises.





Softwarica has become a second home to me, with its ever-supportive guidance and a friendly environment. Everyday at Softwarica is something that makes you grow and experience, always aiming you towards your career

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**Hemang Shrestha**  
Batch 24 B

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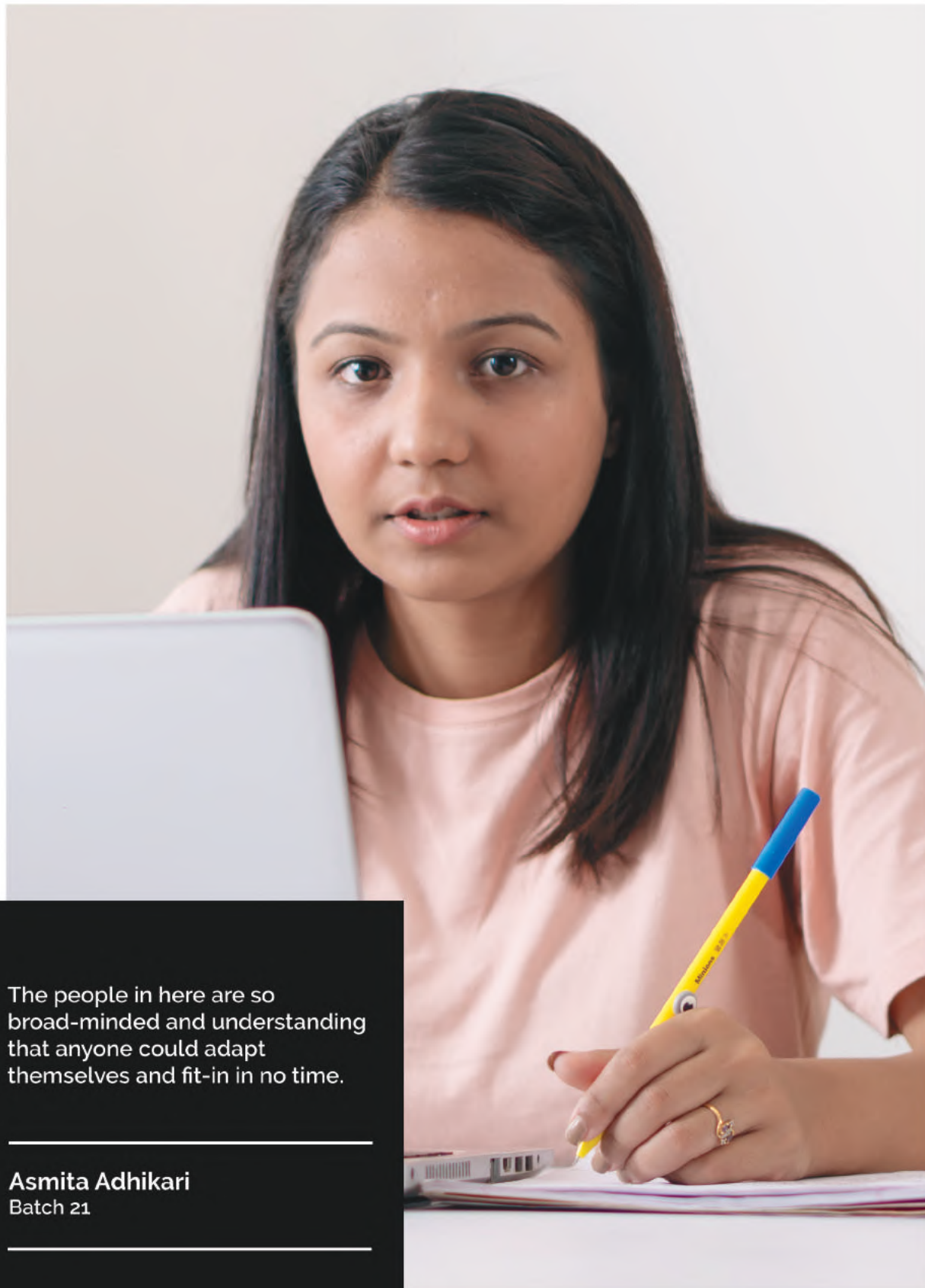
After completing my degree from Softwarica, I am planning to make a difference in today's technological environment through all the knowledge I gain here. And yeah, 'Softwarica has given me the wings to fly'.

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**Daisyna Shrestha**  
Batch 21

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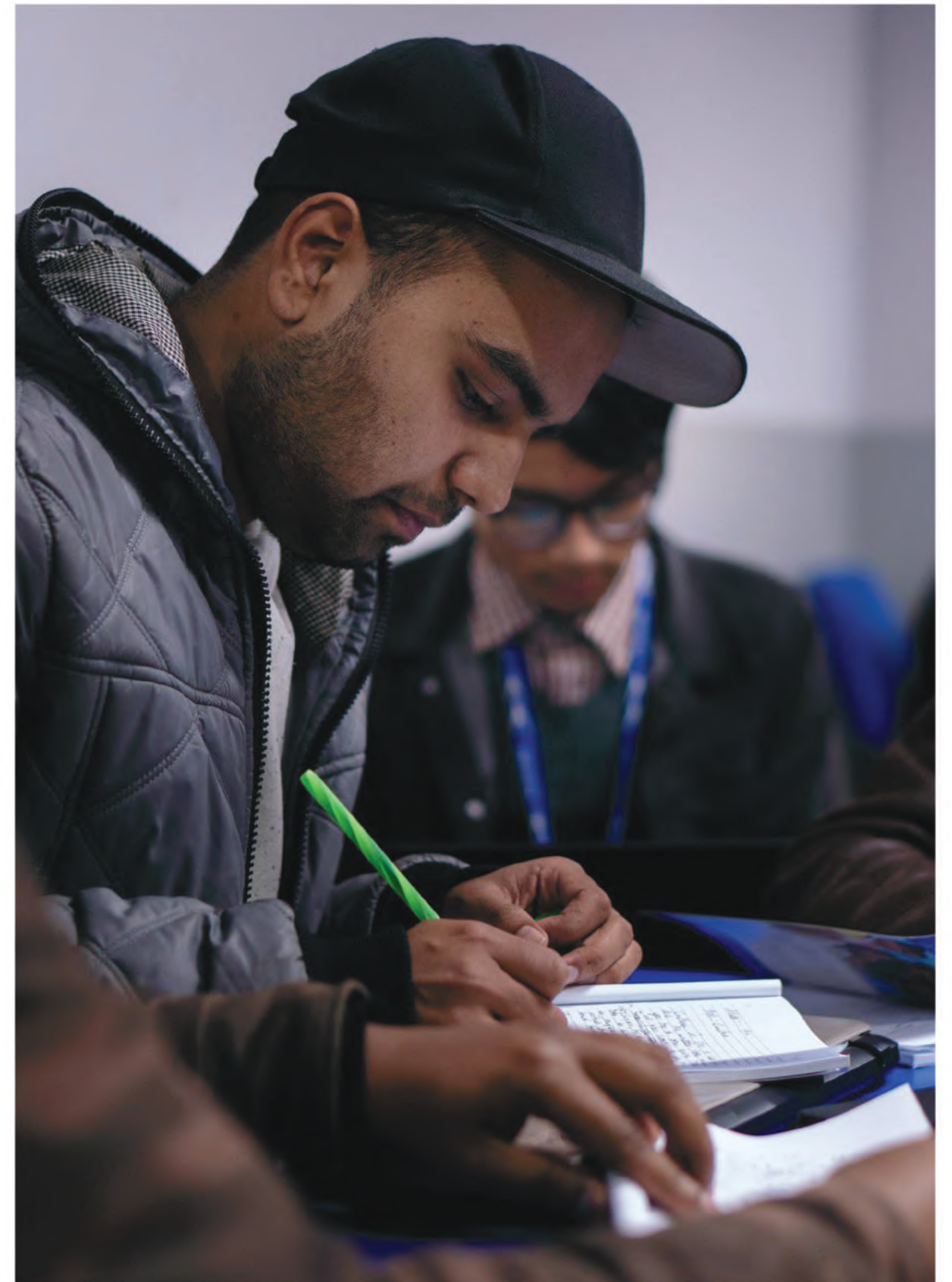


The people in here are so broad-minded and understanding that anyone could adapt themselves and fit-in in no time.

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**Asmita Adhikari**  
Batch 21

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Creative writing workshop for students.





It would certainly be a proud moment to become alumni of one of the finest academic institution solely dedicated for the solving the emerging IT technology which I became part of. Today I can stand proud and look upon myself how much this institution has changed and improved me.

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**Pratigya Sapkota**  
Batch 20B

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Our students with Girish Khatiwada in Vlogging Competition



Students enjoying boating at Kulekhani as a part of the field trip.





Softwarica is more than what i had thought. It has helped me in pursuing my dream by giving me experiences in programming languages, networking and web designing.

**Tooga Garanja Magar**  
Batch 23B



A very inquisitive student participating in Mobile Monday



Our students participating in the Startup Weekend Kathmandu to as a part of their Extra Curricular Activities.





Softwarica has an environment where learning process is not a monotonous one sided chore but a give and take process. I am an independent thinker today because of this

Rajesh Jung Chhetri  
Batch 20A



Students deciding on a project to get started during a student workshop at Softwarica.



A professor from Coventry University working with our students on a workshop for IOT.





Softwarica is like a family to me and the most important thing I loved its friendly environment. No one is a stranger at Softwarica.

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**Tasmiya Fatema**  
Batch 22A

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I was not quite sure about my future goals before joining Softwarica, but Softwarica has helped me find my passion in web designing.

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**Suveksha Khanal**  
Batch 21

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My parents wanted me to study nursing while i was always interested pursue my career in IT, it took me a year to convince them. I am excited to follow my passion and get a degree from Softwarica.

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**Prathana Magar**  
Batch 25

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The phase of choosing the best IT college that offers the best values was quite hectic for me. After a long research over the IT colleges in town, I joined Softwarica. And today with much confidence I can say that choosing Softwarica was the best decision I have ever made. Softwarica not only offers excellent academic courses but also grooms its students with the ultimate opportunities that uplift their personal and professional development. Support and guidance of Softwarica has always been a great motivation for me.

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**Prithu Singh Thakuri**  
CEO, WPALL CLUB  
Batch 25

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## From Our Alumni



**Sujan Shrestha**

I can still remember the day when I was wondering about what will I become when I grow up. I had a huge interest in computer science, but the career path was not clear. Studying at Softwarica helped me gain knowledge and understanding of various aspects of computer science and software engineering, and helped me decide on my career interests. I started working as software developer while I was still studying at Softwarica. After I completed my course, I applied for (MsCS) Masters in Computer Science in (MUM) Maharishi University of Management (located at Fairfield, Iowa, USA). MUM also offered me a very good education loan after evaluating my academic qualification and professional experience which helped me to expand my career.

Currently, I am working as a Software Engineer in a San Francisco, USA and I am really happy with what I do and what I have achieved so far. And it all traces back to the crucial point when I decided to join Softwarica for my Undergraduate degree. I want to thank all faculty members for helping me grow and supporting me in my professional life.

It gives me great pleasure with pride to say that I am part of Softwarica college. After years from my graduation, I am still in touch with my teachers back there who always helped me make crucial decisions of my life. They have been a second family to me. I realized the course I took at Softwarica was amazing when I started studying in the US. It wasn't difficult to adapt to the US education at all.

After completing my Bachelors degree at Softwarica, I got selected to study at Southern Arkansas University for my Postgraduate studies, Masters in Computer and Information Science (AI). Because of my strong base while at Softwarica, I built a website called Hamrokhelkud.com . It wouldn't have been possible without all the knowledge and time at Softwarica.



**Dipendra Pokherel**

I have been working for a Multinational Company ,Dish Home, since past four years as a Data Base Administrator/Data Analyst. This company has operations all over the world in Satellite TV Communication. I was very fortunate to have received an offer of employment this company while I was still in my final year of my undergraduate degree at Softwarica College. The technologies I was introduced to, in my days at Softwarica, played a key role in securing this rewarding and career focused employment. Thank you Softwarica for all the support and encouragement



**Hikmat Saud**

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