



**KATHMANDU MODEL
SECONDARY SCHOOL**

Academic Excellence Through Quality Education



SCIENCE

PROSPECTUS

2024/25







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Introduction

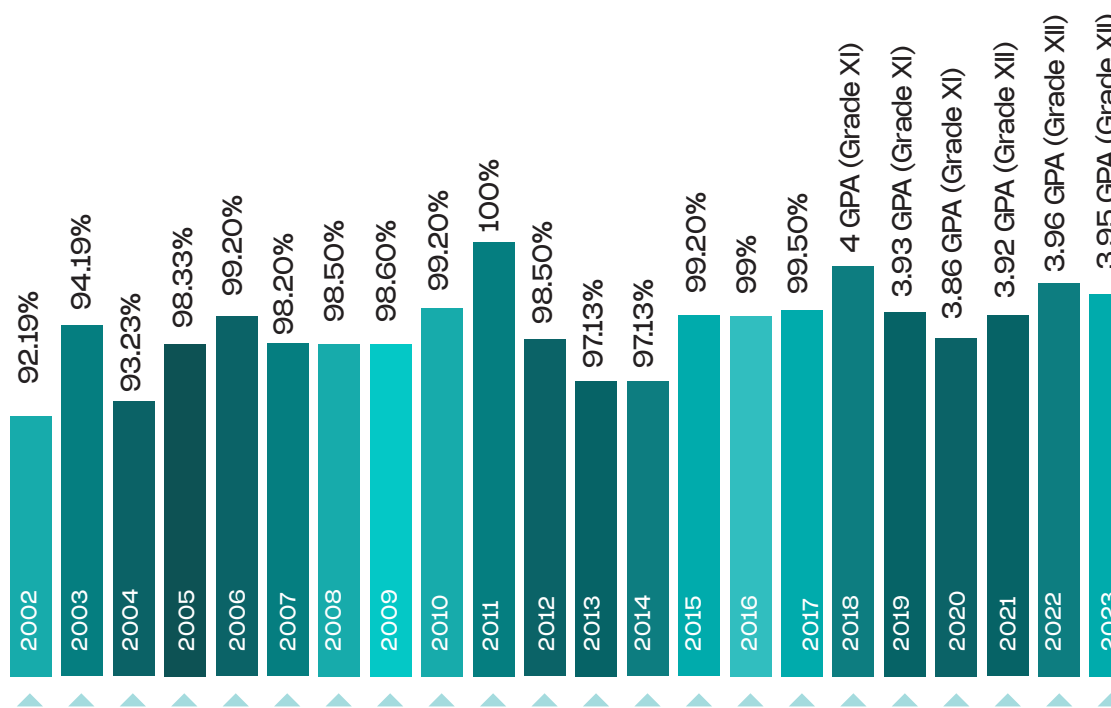
Nestled in the heart of Bagbazar, Kathmandu, Kathmandu Model Secondary School, also known as KMC, is a distinguished and established academic institution for those seeking top-tier higher education in Nepal. Since its establishment in 2000, KMC has established an impressive reputation as one of the best +2 schools in the country. Over the span of more than two decades, KMC has forged a distinctive and prominent reputation for itself as a premier academic institution, renowned for its leadership in education nationwide. KMC prides itself on continuously renovating and upgrading its facilities to offer a technology-friendly and welcoming academic environment conducive to effective teaching and learning. Our relentless efforts in exploring new terrains in professional education have led to where we stand today in the academic domain, and we are committed to continuing to redefine modern education and maintain our legacy of academic excellence.



At KMC, we aim to instill discipline, nurture decency, inculcate moral values, and foster a passion for learning by creating an intellectually stimulating environment. Our labs are equipped with cutting-edge technology and our faculty members have extensive industry experience. We make deliberate efforts to help our students realize their dreams and aim to take the learning experience beyond the classroom, to create a unique pool of talent. We have consistently achieved high NEB results (100%) every year, which is a testament to the dedication and hard work of our faculty members and the guidance provided to our students.

KMC is always up-to-date with modern educational trends and offers modern education that is in line with the values of life. Our goal is to pursue academic excellence through quality education. Each year, more than 10,000 students take entrance examinations to enroll at the +2 level in KMC, which is a solid indication of the trust and faith parents and guardians have in us. KMC boasts of a holistic approach to enriching the students' learning experience by reinforcing practical and student-centered teaching pedagogy that is modern, resourceful, innovative, and enterprising.

Our aim at KMC is to unlock our students' innate potential, encouraging them to take initiative, develop a futuristic outlook and cultural consciousness, and to lay a foundation for highly qualified human resources needed for the global market of the 21st century. Ethos, team spirit, and community service are strongly ingrained in our students through various student-driven activities. We are committed not only to the academic development of our students but also to their physical, mental, and emotional growth through various co-curricular and extracurricular activities. KMC provides holistic development for our students, advocates academic excellence, and assures quality education at an affordable cost. Our unwavering commitment is to guide today's generation's future avenues by nurturing intellectual dynamism and moral rectitude.



24 Years of Excellence: Past NEB Results of KMC

KMC Values & Goals



Philosophy

At KMC, we believe that education should not only focus on academic excellence, but also on the holistic development of each student. We strive to provide a nurturing environment where students can explore their passions and interests, develop essential life skills, and become responsible global citizens.



Mission

Our mission is to empower students to achieve their full potential by providing a world-class education that is academically rigorous, intellectually stimulating, and personally enriching. We aim to foster a love of learning, a spirit of inquiry, and a commitment to lifelong growth and development.



Vision

Our vision is to be a leading educational institution in Nepal that is recognized for its academic excellence, innovative teaching methodologies, and commitment to student success. We aspire to create a community of lifelong learners who are compassionate, curious, and committed to making a positive impact in the world.

Core Values

Academic Excellence:

We are committed to providing a rigorous and challenging academic curriculum that prepares our students for success in higher education and the workforce.

Holistic Development:

We believe in nurturing the physical, emotional, and intellectual well-being of our students through a range of extracurricular activities and programs.

Innovation:

We embrace innovation and creativity in all aspects of our work, from teaching and learning to research and development.

Community:

We value the diversity of our community and believe that collaboration, mutual respect, and understanding are essential to achieving our goals.

Social Responsibility:

We are committed to making a positive impact in our community and in the world by promoting social responsibility, ethical behavior, and civic engagement.

Inclusion and Sustainability:

We focus on Inclusion which reflects our commitment to creating a welcoming and inclusive environment for all individuals, regardless of their background. We also prioritize the preservation of natural resources and reducing our environmental impact through sustainable practices in our operations, such as reducing waste and energy consumption, promoting eco-friendly products and services, and supporting community initiatives for environmental sustainability.



Goals

- › Instilling resilience to help students cope with life's inevitable obstacles.
- › Imparting sound professional training and knowledge to students and inculcating in them time-tested values and responsibilities as good citizens of the country.
- › Fostering all-round development of students through curricular and extra-curricular programs.
- › Motivating students to strive for and attain academic and professional excellence.
- › Encouraging students to become self-reliant and promoting harmonious relations through unity and interaction among multicultural, multireligious, multilingual, and multiethnic groups.

Chairman



Rameshwor Aryal

Advisory Board Members



Dr. Chiranjibi Nepal
Former Governor,
Nepal Rastra Bank



Prof. Khagendra Bhattarai
Former Vice Chancellor,
Pokhara University



Mr. Hari Pd. Bashyal
Former Secretary,
Ministry of Communication and
Information Technology



Mr. Upendra Poudel
Chairman,
Nabil Bank



Dr. Tshering Lama
Executive Chairperson & Co-founder,
Idea Studio Nepal (ISN)



Advisory Board

The establishment of an Advisory Board in KMC serves a crucial purpose in advancing the institution's vision and goals. The rationale behind having an Advisory Board is to harness the expertise and experience of professionals from various fields to provide strategic guidance and support to the management of KMC. The key rationale for the existence of the Advisory Board are:

Expertise and Diverse Perspectives:

The Advisory Board comprises individuals with diverse backgrounds and expertise, including academia, industry, and government. This diversity ensures a wide range of perspectives and insights that can contribute to the decision-making process. The board members bring their unique knowledge and experiences to provide a holistic approach to addressing the challenges and opportunities faced by KMC.

Strategic Direction and Planning:

The Advisory Board plays a vital role in providing strategic direction to KMC. By staying updated with the latest developments in education, technology, and industry trends, the board helps the institution anticipate future needs and adapt its programs and services accordingly. This strategic planning ensures that KMC remains competitive and relevant in the rapidly evolving educational landscape.

Quality Enhancement:

The Advisory Board's primary objective is to enhance the overall quality of education and services provided by KMC. Through regular monitoring and evaluation, the board identifies areas for improvement and offers recommendations on curriculum development, teaching methodologies, student welfare, infrastructure, and other critical aspects. By implementing these recommendations, KMC can continuously enhance its academic standards and provide a world-class learning experience.

Industry Relevance:

The Advisory Board facilitates strong connections between KMC and various industries. Board members with industry expertise can guide the institution in aligning its programs with industry requirements, ensuring that graduates are well-prepared for the job market. This industry relevance helps KMC maintain its reputation as an institution that produces skilled professionals who are ready to contribute to the workforce.

Networking and Collaboration:

The Advisory Board acts as a bridge between KMC and external stakeholders, fostering networking opportunities and collaborations. Board members can leverage their networks and connections to create partnerships with other educational institutions, industry leaders, and community organizations. These collaborations can result in joint research projects, internships, guest lectures, and other initiatives that enrich the learning experience of KMC students.

Continuous Improvement:

The Advisory Board's presence ensures a culture of continuous improvement within KMC. By conducting regular evaluations, providing feedback, and monitoring progress, the board promotes a culture of accountability and excellence. This focus on continuous improvement helps KMC stay at the forefront of educational innovation and maintain its position as a leading academic institution.



Message from the Principal

Dear Esteemed Parents and Guardians,

It fills me with boundless delight to extend my heartfelt gratitude to you for entrusting us with the education of your children. At KMC, we firmly believe that serving seekers of knowledge is a noble pursuit, and we take pride in empowering each learner who crosses our threshold.

Our motto, "Academic Excellence through Quality Education," inspires us to foster a lifelong passion for learning in our students. We aim to equip them with the skills they need to surpass their limits, think critically and creatively, and become proactive lifelong learners who can thrive in a rapidly evolving global society.

At KMC, we offer an extensive range of co-curricular and extra curricular activities that enable our students to view the world from diverse perspectives. We also focus on preparing them for various competitive entrance exams. As a result, a significant number of our students have successfully gained admission to MBBS, Engineering, Professional Law, CA and BBA courses in prestigious national and international universities.

When you become part of the KMC family, you will experience a warm and welcoming environment that encourages you to pursue your dreams. We offer unparalleled opportunities to help you discover the joy of learning and unlock your limitless potential.

I invite you to visit KMC and discover what sets us apart. Let us inspire you to become the yardstick of quality, and help you take your career dreams to the next level.



Nagendra Bdr. Aryal, PhD
Principal



Accomplishments

Kathmandu Model Secondary School (KMC) has a remarkable history of achievements and accomplishments that have established it as a distinguished institution in Nepal. With a strong commitment to discipline and academic excellence, KMC has consistently maintained high standards for over twenty-four years, setting itself apart from other educational institutions.

- KMC is proud to have received the Educational Award 2074 by the Ministry of Education for our outstanding results.
- For the past twenty-four years, we have upheld discipline and academic standards, making us a standout institution with results of up to 100%.
- Our students consistently reach new heights, from being CEE MBBS Entrance Toppers to NEB Toppers.
- KMC has become the No. One +2 institution in Nepal with highest number of students securing scholarships for Medical and Engineering.
- Our students easily get accepted into prestigious universities in Nepal and abroad.
- Our visionary plan is to be converted into a university, and we offer classes from Playgroup to Master's Degree.



KMC, Bagbazar has been honoured with the prestigious Educational Award 2074 by the Ministry of Education, Nepal, for its outstanding results in Grade XII among the private schools of Nepal.





Infrastructure

KMC takes immense pride in its distinctive buildings, which feature state-of-the-art facilities designed to enhance the learning experience. These buildings include spacious classrooms equipped with modern audio-visual technology and comfortable seating arrangements. The well-equipped laboratories provide hands-on experience with the latest tools and safety measures. Extensive libraries offer a vast collection of resources and quiet study areas, while computer labs boast the latest hardware and software. Additionally, specialized spaces cater to the unique needs of various academic disciplines, ensuring practical and immersive learning environments. Collaborative spaces and student lounges further enrich the campus life, fostering a vibrant and interactive community. These facilities collectively support KMC's mission to deliver high-quality education and research opportunities.





Science Program

At KMC, our +2 science program is distinguished by its unique and engaging approach to learning, designed to prepare students thoroughly for their future academic and professional endeavors. Our philosophy centers on providing hands-on experiences that go beyond traditional classroom instruction. We believe that active participation in experiments, projects, and real-world applications is crucial for a deep understanding of scientific concepts. This method fosters critical thinking, problem-solving skills, and practical knowledge, ensuring students are well-equipped to excel in their fields from the very first day.

GRADE XI & XII SCIENCE PROGRAM

Compulsory Subjects

Nepali: This subject helps students develop their communication skills in the national language, fostering a deeper connection to their cultural heritage and improving their linguistic proficiency.

English: Proficiency in English is essential for global communication and academic success. This subject focuses on enhancing students' reading, writing, speaking, and comprehension skills.

Physics: Physics forms the foundation of many scientific principles and applications. The curriculum covers essential topics such as mechanics, thermodynamics, and electromagnetism, emphasizing both theoretical understanding and practical experimentation.

Chemistry: Understanding the composition, properties, and reactions of matter is crucial for any science student. This subject combines theoretical lessons with laboratory experiments to give students a comprehensive understanding of chemical principles.

Optional Subjects

Social Studies/Mathematics:

Social Studies: This subject provides insights into human society, its structures, and functions, helping students develop a broader understanding of social dynamics.

Mathematics: For those inclined towards quantitative and analytical skills, mathematics is an indispensable tool. The curriculum covers advanced topics that are essential for higher studies in science and engineering.

Biology/Computer Science:

Biology: This subject is perfect for students interested in the living world. It covers cell biology, genetics, ecology, and more, providing a solid foundation for careers in medicine, research, and environmental science.

Computer Science: In an increasingly digital world, computer science equips students with essential skills in programming, algorithms, and data structures, preparing them for careers in technology and innovation.

PROGRAM SCHEDULE

To accommodate diverse student needs and preferences, we offer two time slots for the +2 science program:

Morning Session: 6:20 AM - 12:40 PM

Day Session: 11:40 AM - 5:30 PM

These flexible timings allow students to choose a schedule that best fits their personal and academic commitments, ensuring they can balance their studies with other activities and responsibilities.

The KMC Advantage

Our program is supported by a team of expert faculty members who bring a wealth of knowledge and experience to their teaching. They are dedicated to mentoring students, providing personalized guidance, and fostering an environment where curiosity and academic excellence thrive. Through interactive lessons, practical labs, and collaborative projects, students gain not only the knowledge but also the professional confidence and skills they need to succeed in their future careers.

In summary, the +2 science program at KMC is designed to provide a holistic and immersive educational experience. By combining rigorous academic instruction with practical, hands-on learning, we ensure our students are well-prepared to achieve their academic goals and excel in their chosen fields from day one.



Admission Procedure

Eligibility

- Students securing at least **2.85 GPA in SEE** or in an equivalent recognized board with B grade each in Science, Compulsory Mathematics, **Optional Mathematics** and English will be eligible for science stream.
- Admission in science is based on its entrance exam. Students must meet the criteria set by the college. Entrance questions include **Science 40 marks + Maths 40 marks + English 20 marks.**
- Students can fill the online form from school's website www.ktmmodelcollege.edu.np
- Entrance center, Entrance symbol number, model question and fee structure will be sent to your registered email ID. School will publish entrance result via email or SMS. Interested students must get admission before the admission deadline or before quota is fulfilled, whichever comes first.
- Only meritorious students will be enlisted for admission.



Metropolitan Scholarship

- Metropolitan scholarship** will be granted to the listed students from Kathmandu Metropolitan City.

Special Scholarship Schemes

- The limited number of scholarships will be awarded on a merit basis, and the student must pass each terminal exam to continue the scholarship.
- Sushil Memorial Scholarship** which is established on the memory of Late Sushil Sahani will be provided to top three students of the KMC first entrance examination.

Special Award

KMC Excellence Award of Rs. 15,001/- along with a trophy will be awarded to students for their overall excellent performance in all activities, including academic excellence.

Bishnu-Radha Award of Rs. 10,001/- cash along with a trophy, established by Mr. Bishnu Prasad Sharma, Founder Chairman of KMC, will be awarded to any two KMC faculty toppers in the NEB Exam of Class XI.

Aama Mayadevi Award of Rs. 5,001/- cash along with a trophy, established by Mr. Dhruva Bhattarai, Founder Director of KMC, will be awarded to the female topper student of Management in the NEB Exam of Grade XI.

Basic Scholarship Schemes

Those who are enlisted in scholarship criteria must get admission before completion of scholarship quota as scholarship is available on first come first admission basis.

- Scholarship for Science in Grade XI during admission is awarded based on cumulative marks [SEE (25%) + KMC Entrance (75%)].**
- Marks of SEE will be calculated as follows:**

GPA 4.00	=	25 marks	GPA 3.75	=	20 marks
GPA 3.95	=	24 marks	GPA 3.70	=	19 marks
GPA 3.90	=	23 marks	GPA 3.65	=	18 marks
GPA 3.85	=	22 marks	GPA 3.25 & above	=	16 marks
GPA 3.80	=	21 marks	GPA 2.85 & above	=	14 marks

Scholarship Schemes in Grade XI Science During Admission

S.N.	CUMULATIVE MARKS	ANNUAL FEE	TUITION FEE	NUMBER OF SCHOLAR
1	90 and above	100%	100%	20
2	85-89	75%	75%	20
3	80-84	50%	50%	20
4	75-79	50%	25%	20
5	70-74	25%	25%	20

Scholarship According to Terminal Examinations of Class XI & XII

S.N.	MARKS IN TERMINAL EXAM	SCHOLARSHIP	NO. OF SCHALORS	DURATION
1	Topper or 85% & above	100% on Tuition Fee	ALL	3 months
2	80% and above	50% on Tuition Fee	ALL	3 months
3	75% and above	25% on Tuition Fee	ALL	3 months
4	70% and above	10% on Tuition Fee	ALL	3 months

Scholarship for Class XII According to the Class XI Final Result

S.N.	MARKS IN TERMINAL EXAM	SCHOLARSHIP	NO. OF SCHALORS	DURATION
1	Topper or 85% & above	100% on Tuition Fee	ALL	3 months
2	80% and above	50% on Tuition Fee	ALL	3 months
3	75% and above	25% on Tuition Fee	ALL	3 months
4	70% and above	10% on Tuition Fee	ALL	3 months

Notes:

- The scholarship quota during admission is limited, so it will be provided on a first-come, first-serve basis.
- The above schemes on tuition fees during admission are allocated only for three months (up to the First Term Exam).
- The scholarship will be adjusted according to the result of the terminal examination as mentioned above.

Celebrating Excellence:

A Journey of Achievements at KMC +2 College



Sandesh Gautam
IOM MBBS Entrance
Topper



Supriya Sharma
(92% in Management)
HSEB Topper



Pranav Pratik Tulshyan
All India Topper in IPCC-CA



Prajwal Luitel
IOE MBBS Entrance
Topper



Pradeep Pandey
GPA 3.93
NEB Topper



Sabina KC
Agriculture Entrance
Topper



Suman Thapa Magar
GPA 3.93
NEB Topper

2012



Priya Mittal
(90% in Management)
HSEB Topper

2015/16



Sabina Gurung
(84.4% in Management)
HSEB Topper

2017



Kshitiz Acharya
KUM BBS Entrance
Topper



Sangharsha Ghimire
BPKIHS MBBS
Entrance Topper

2018



Prashwin Adhikari
GPA 3.93
NEB Topper



Pramod Tamang
GPA 3.93
NEB Topper



Sujan Bhandari
GPA 3.93, Management
NEB Topper

2019/21



Sriyans Rauniyar
Full Ride Scholar in Princeton
University, USA



Shiva K. Bhattarai
GPA 3.65, Law
NEB Topper



Isham Sapkota
GPA 3.96, NEB
Topper



Pranjal Chalise
Amherst College, USA
Full-Ride



Johnson Subedi
Center College, USA
Full-Ride



Aayusha Dhungana
Colgate University, USA
Full-Ride

2022



Sovit Lekhak
Fisk University, USA
Full-Ride



Pranjal Shrestha
Central College, USA
Full-Ride



Roman Shrestha
Vassa College, USA
Full-Ride



Aman Dutta
Princeton University, USA
Full-Ride



Samip Acharya
GPA 3.95 (Science)
NEB College Topper



Yurisha Bajracharya
GPA 3.95 (Science)
NEB College Topper



Mehabub Alam
CEE MBBS Entrance
Rank 4



Yunisha Neupane
Bryn Mawr College
NPR 4.20 Cr

2023



Aastha Kalauni
GPA 3.8 (Law)
NEB College Topper



MD Salman
GPA 3.95 (Management)
NEB College Topper



Subina Khanal
TU BALLB Entrance
Topper



Pratik Gyawali
IOE Entrance
Rank 4

Academic Achievements

No. 1 Plus Two in Nepal: **Highest number of scholars from KMC**
in CEE MBBS Entrance among all plus two schools in Nepal

Future Doctors from KMC under Full Scholarship Schemes



Mehabub Alam
MBBS



Jayendra Jha
MBBS



Samridhi Dumre
MBBS



Sushambhav Khanal
MBBS



Shishir Rijal
MBBS



Nand Kishor Arya
MBBS



Rohit Lahera
MBBS



Aakash Shah
MBBS



Aarjan Adhikari
MBBS



Anish Kafle
MBBS



Rahul Sah
MBBS



Rajkumar Shah Teli
MBBS



Anisha Sapkota
MBBS



Samiksha Rai
MBBS



Prabha Panti
MBBS



Sharaddha Adhikari
MBBS



Apekshya Adhikari
MBBS



Shishir Thapa
MBBS

KMC uses practical, innovative teaching methods to build a strong foundation in +2 science education, preparing students for the 21st-century global market.

in CEE MBBS Entrance in the Year 2023 (2080)



Sandesh Poudel
MBBS



Bishal Kumar Jha
MBBS



Subash Dhakal
MBBS



Saajan Kumar Yadav
MBBS



Sophya Chudali
MBBS



Jamuna Gurung
MBBS



Kritika Giri
MBBS



Manish Kumar Shah
MBBS



Sachin Sky Yadhav
MBBS



Pradeep Gaire
MBBS



Aayush Paudel
MBBS



Samarika Dahal
MBBS



Meghna Yadav
MBBS



Khushi Husain
MBBS (Muslim)



Bijay Sunar
MBBS (Dalit)

33 KMCians
in CEE MBBS

Under Full Scholarship Scheme in 2080

Future Engineers from KMC under Full Scholarship Schemes

No. 1 Plus Two in Nepal: **Highest number of scholars from KMC**
in IOE Pulchowk Entrance among all plus two schools in Nepal in 2080



Pratik Gyawali
BE



Sulav Paudel
BE



Pratik Ghimire
BE



Sushambhav Khanal
BE



Diwash Patel
BE



Rabin Shahi
BE



Shristi Pokhrel
BE



Abhideep Ghatane
BE



Sakshyam Bhandari
BE



Yurisha Bajracharya
BE



Sujal Bhattra
BE



Sulav Koirala
BE



Rupesh Das
BE



Rajkumar Shah Teli
BE



Rupesh Shah Kanu
BE



Roshan Regmi
BE



Nischal Khanal
BE



Milan Paudel
BE



Abhishek Bhattra
BE



Asim Poudel
BE



Agrim Khanal
BE



Arsu Ghimire
BE



Dewesh Khanal
BE



Sachin Kumar Yadav
BE

in IOE Entrance in the Year 2023 (2080) at Pulchowk Campus



Sanim Bajracharya
BE



Srijal Basnet
BE



Samyam Shrestha
BE



Crystal Khanal
BE



Abhinav Singh Basnet
BE



Pradeep Gaire
BE



Nabina Thapa
BE



Bibash Adhikari
BE



Prayush Bikaram Khadka
BE



Shishir Poudel
BE



Rahul Jaiswal
BE



Krishti Lamichhane
BE



Shreyup Bhandari
BE



Sakshyam Chapagain
BE



Subham Gyawali
BE



Pranjal Shrestha
BE



Sudip Dhungana
BE



Preksha Thapa
BE



Sancharika Hamal
BE



Inesh Pokhrel
BE



Prabha Panti
BE



Anush Banjara
BE



Aarjan Adhikari
BE



Kshitiz Shrestha
BE



Sudeep Mishra
BE



Ayush Poudel
BE

50 KMCians
in IOE Pulchowk

Under Full Scholarship Scheme in 2080

Highest Number of **Scholarship Holders**

From KMC in US Universities (Year 2023/24)

Many of our students receive full-ride scholarships to esteemed universities, nationally and internationally, providing limitless opportunities and global recognition. These achievements showcase KMC's commitment to nurturing exceptional talent, fostering academic excellence, and providing a conducive learning environment.



Yunisha Neupane
Bryn Mawr College
Total Scholarship:
NPR 4.20 Cr



Jeeban Bashyal
Gettysburg College
Total Scholarship:
NPR 4 Cr



Tejashwi Poudel
New York University
Total Scholarship:
NPR 3.75 Cr



Sumit Kumar Sah
Centre College
Total Scholarship:
NPR 2.82 Cr



Prajwol Poudel
Knox College
Total Scholarship:
NPR 2.77 Cr



Diwash Patel
Fisk University
Total Scholarship:
NPR 1.87 Cr



Sujal Bhattarai
Fisk University
Total Scholarship:
NPR 1.87 Cr



Prashant Khatiwada
Caldwell University
Total Scholarship:
NPR 1.80 Cr



Aniket Yadav
Rowan University
Total Scholarship:
NPR 1 Cr



Kabita Shah
Rowan University
Total Scholarship:
NPR 1 Cr



Pratap Sing Wosti
Texas State University
Total Scholarship:
NPR 0.65 Cr



Purnika Thapa
Louisiana Tech University
Total Scholarship:
NPR 0.58 Cr

REMARKABLE ACCOMPLISHMENT: Kathmandu Model Secondary School (KMC) celebrates a significant milestone as exceptional students have earned admission to 16 of the world's most prestigious universities and liberal arts colleges in 2023/24. These remarkable achievements have collectively been awarded scholarships totaling over 25 crores, positioning KMC as a leading institution in Nepal with one of the highest numbers of full-ride scholarship recipients.

Digital KMC Enhancing Education through Technology

The integration of digital platforms at KMC represents a significant advancement in the realm of education. By leveraging technology, KMC provides students with unprecedented access to recorded video lectures and study materials. This shift not only accommodates diverse learning styles and schedules but also fosters a more personalized and flexible educational experience.

KATHMANDU MODEL COLLEGE

Dashboard

Grade 12

- Mathematics 0%
- Chemistry 0%
- Physics 0%

My Statistics

Video watch-time: 4m

26/5

← Logic & Set

Tutorial 1

2 Lessons

- $x + 2 = 5$ is an open sentence which may be true in some case, false in others. (but not statement)
- The truth or falsity of the statement is known as its truth value. We denote statement by p, q, r ...and we write T for true & F for false.

0.5x 4:07 / 30:04

← Ionic Equilibrium

Tutorial - 1

IONIC EQUILIBRIUM

- Common Ion Effect
- Calculation of pH of Different types of Solution
- Electrolytes & their types
 - Strong Acid
 - SA-SB
 - WA-WB
 - Strong Base
 - SA-WB
 - WA-SB
 - Weak Acid
 - Weak Base
 - Buffer Solutions
- Degree of dissociation (α)
- Ostwald's dissociation law

1x 22:13 / 26:10

← Viscosity

Tutorial 1

4 Lessons

What is Viscosity?

Viscosity is the resistance of a fluid (liquid or gas) to a change in shape or movement of neighbouring portions relative to one another. Viscosity denotes opposition to flow.

1x 1:48 / 31:29

← Bryophyte

Tutorial 1

- BRYOPHYTA- BRYON= moss, PHYTON=plant**
- Group of plant which includes **liverworts, hornworts & mosses**
- 180 genera worldwide, 180 genera in Nepal**

1x 2:12 / 49:33

Facilities

HOSTELS

Living away from home can be a daunting task, but at KMC, we ensure a smooth transition from home life to hostel life. Our spacious and clean rooms, equipped with modern facilities and amenities, provide a homely and comfortable environment. We offer separate hostel facilities for girls and boys, with hygienic food, intensive care, study support, sports, and entertainment.

CAFETERIA

Our college cafeteria serves wholesome meals and snacks to students and staff members at reasonable prices. The food menu is thoughtfully set for different days across the week to cater to the students' holistic needs for physical and intellectual growth and development, while avoiding repetitiveness.

SPORTS AND CO-CURRICULAR

In addition to regular lectures, KMC provides basketball, table tennis, chess, and badminton during recess to break students' monotony. We conduct extracurricular and co-curricular activities throughout the academic year to explore and nurture students' hidden potential.

LIBRARY

Our library is equipped with a wide array of books, periodicals, videos, and an E-library to satisfy the never-ending thirst for knowledge. We provide updated medical and engineering entrance preparation books and other materials.

LABORATORIES

Our computer labs are meticulously organized and equipped with state-of-the-art computers, the latest software, and technologies, along with unlimited internet access. This setup provides students with practical, hands-on experience to enhance their understanding.

Our dedicated teachers ensure that every student gains firsthand knowledge of Computer Science. They take great care to provide personalized instruction, making the most of our well-organized and well-equipped computer labs.



HEALTHCARE

KMC provides health care and medical services to students as needed. The Medical Room is well-equipped to provide first aid to injured and ill students. We also have a full-time nurse to cater to the needs of the sick. Separate sickrooms are available for girls and boys, and we conduct regular health camps.

TRANSPORTATION FACILITY

KMC provides transportation facilities for needy students in ten different routes in Kathmandu and Bhaktapur during the morning and day shift.

SEMINAR HALL

The college has two well-equipped seminar halls with a capacity of 200 seats for various interaction programs, presentations, confidence-boosting exercises, training sessions, and workshops.

TECHNO-FRIENDLY CLASSES

Classrooms of the 21st century require technologies of the 21st century. To keep up with the needs of the time, KMC has given priority to digital technologies in teaching-learning activities. Our classes run through presentation methods such as computer-based projections and digital videos.

PRE-ENGINEERING & PRE-MEDICAL CLASSES

Students at KMC gain advantages not only from consistent pre-engineering and pre-medical courses but also from the regular administration of mock tests every weekend. This comprehensive approach ensures that they are well-prepared for their exams and familiar with the testing format, helping to build their confidence and improve their performance.

DAY BOARDERS

KMC provides day boarder facilities to needy students who want to take advantage of extra classes, from 7 AM to 5:30 PM. At KMC, we believe in providing an all-round development opportunity to our students. Our facilities cater to various aspects of students' lives, including academics, physical well-being, emotional well-being, and overall development.

We aim to create a homely environment for students, where they can grow and learn, and become responsible citizens.



ECAs & CCAs at KMC

Kathmandu Model Secondary School (KMC) is committed to providing holistic education to its students by encouraging their active participation in extracurricular and co-curricular activities (ECA/CCA). Our ECA/CCA programs are designed to help students develop their social, intellectual, and creative skills. Our programs aim to create an environment that supports students' personal and academic growth, cultivates a sense of community, and promotes a healthy and active lifestyle.

Objectives of our ECA and CCA Programs:

- To develop students' intellectual, social, and creative skills.
- To provide a platform for students to showcase their talents and skills.
- To foster a sense of community among students and promote teamwork and leadership skills.
- To promote a healthy and active lifestyle through sports and fitness activities.
- To cultivate social awareness and promote community service.

Principles of our ECA and CCA Programs:

- **Inclusivity:** All students are encouraged to participate in our ECA/CCA programs, regardless of their background or skill level
- **Diversity:** We promote diversity in our programs, which include a range of cultural, social, and creative activities.
- **Active participation:** Students are encouraged to take an active role in planning and organizing activities.
- **Excellence:** We encourage students to strive for excellence in all their activities.
- **Learning:** Our programs provide opportunities for students to learn and develop new skills.
- **Fun:** We believe learning should be enjoyable and strive to create a fun environment for our students.





Social Awareness:

KMC organizes various activities to promote social awareness among its students, such as seminars, workshops, and community service projects.

Debate and Quiz Competition:

KMC encourages debate and quiz competitions to promote critical thinking and enhance students' communication skills.

Cultural Programs:

KMC organizes cultural programs to promote cultural diversity and encourage students to showcase their creativity and artistic skills.

National Writing and Debate Competition:

KMC provides a platform for students to participate in national writing and debate competitions to enhance their skills and showcase their talents.

Organize Industrial Visits, Hiking, and Excursion:

KMC organizes industrial visits, hiking, and excursion to provide hands-on experience to students and promote outdoor activities.

Sports:

KMC promotes sports activities to promote a healthy and active lifestyle among students.

Art Competition:

KMC organizes art competitions to promote creativity and artistic skills among students.

Mr. & Miss KMC:

KMC organizes Mr. and Miss KMC competition to provide a platform for students to showcase their confidence, personality, and talents.

Singing & Dance Competition:

KMC organizes singing and dance competitions to promote cultural diversity and encourage students to showcase their talents.

Presentation Competition:

KMC encourages students to participate in presentation competitions to enhance their communication and public speaking skills.

Chess and Poem Competition:

KMC organizes chess and poem competitions to promote critical thinking and encourage students to showcase their creative and analytical skills.

Writing and Publishing:

KMC encourages students to participate in writing and publishing activities to enhance their writing skills and promote their creativity.

Club Activities:

KMC offers a range of club activities, such as photography, journalism, music, and drama, to provide students with opportunities to pursue their interests and develop their skills in a supportive environment.

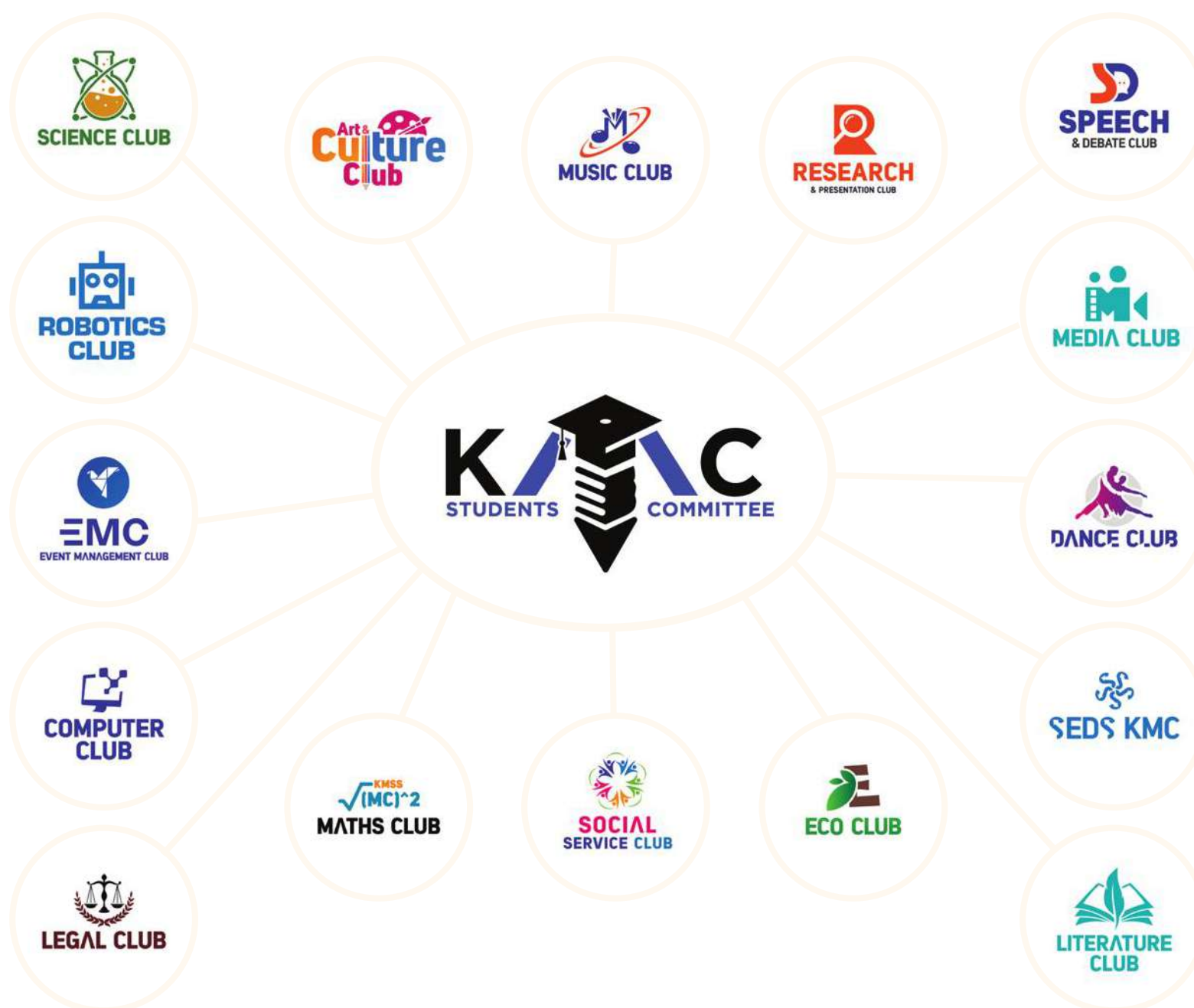






KMC Students' Committee

The KMC Students' Committee is a representative body of students at KMC, Bagbazaar, based on the principles of Imagine, Innovate, and Inspire. Our committee provides students with a platform where their concepts, approaches, and imaginations can drive innovations, inspiring thousands of KMC students to raise their self-confidence and follow their passions. The committee consists of 15 clubs and one team, involving 150 KMC students, each with their unique specialties. We organize various events and activities to foster leadership and teamwork among students. Our initiatives aim to create a vibrant campus culture that values creativity and collaboration. By encouraging student engagement, we help develop future leaders and innovators.





Counselling & Motivation

At KMC, counseling programs are viewed as essential services to support the positive growth and development of each student's academic, social/emotional, and future career planning needs. The school provides a range of curriculum opportunities for both formal and informal learning, incorporating self-awareness, guidance, decision-making, and problem-solving strategies. Support services include individual and group counseling sessions, mental health services, and activities for student outreach. The guidance and counseling program also assists students with academic and career planning, as well as preparation for transition issues and independent living.

Objectives

- To provide individual and group counseling services to meet the needs and concerns of students, parents, faculty, and staff members.
- To support academic growth and development by providing a full range of National Curriculum opportunities.
- To promote self-awareness, guidance, decision-making, and problem-solving strategies in students.
- To assist students with academic and career planning, as well as preparation for transition issues and independent living.
- To provide a range of activities, presentations, and services for students aimed at giving support to the Guidance and Counseling Program goals.

Psycho-social Empowerment

The psycho-social department at KMC is a specialized unit that focuses on the mental and emotional well-being of students. It offers a wide range of services aimed at improving the psychological and social health of our students and communities.

Principles

The psycho-social department at KMC is based on the following principles:

- Respect for human dignity and privacy.
- Confidentiality and non-judgmental approach to all students.
- Promotion of mental health and well-being.
- Provision of accessible and equitable services to all members of the community.
- Collaboration with other healthcare professionals to provide comprehensive care.

Objectives

The primary objectives of the psycho-social department at KMC are as follows:

- To provide mental health assessment, counseling, and therapy referral services to the students.
- To promote mental health education and awareness in the community.
- To facilitate the development of social support networks for students and their families.
- To provide crisis intervention and support services in times of emergency.
- To conduct research and develop evidence-based mental health programs and interventions.

Facilities

The psycho-social department at KMC provides the following facilities:

- Mental health assessment and diagnosis.
- Individual, group, and family/ community sessions.
- Psycho-education and mental health awareness programs.
- Crisis intervention and support services.
- Referral services to other healthcare professionals as needed.



Professional Courses @ KMC

Kathmandu Model Secondary School (KMC) has been at the forefront of providing quality education for the past 24 years. As the world rapidly advances in technology, it has become crucial for educational institutions to adapt their curriculum to keep pace with these advancements. Recognizing this need, KMC has taken the initiative to introduce additional IT courses in grades 11 and 12, apart from the national curriculum viz: cyber security, Artificial Intelligence (AI), and Data Science.

NCC Education

A UK-Based Internationally Recognized Awarding Body NCC Education is a prestigious UK-based awarding body that is internationally renowned for its commitment to excellence in education. Originally established as part of the esteemed National Computing Centre, NCC Education has been providing Computing qualifications since 1976. In 1997, NCC Education expanded its offerings to include a comprehensive Higher Education portfolio that encompasses Business qualifications, IT qualifications for school children, and a range of foundation qualifications.

With a strong presence in over forty countries, NCC Education operates through its network of centers, supported by four international offices and dedicated academic managers worldwide. This global reach enables NCC Education to deliver education that is tailored to meet the needs of learners from diverse backgrounds and cultures.

As a mark of its commitment to quality, NCC Education is regulated and quality assured by Ofqual, the Office of Qualifications and Examinations Regulation. This accreditation by Ofqual further validates the high standards and credibility of the qualifications offered by NCC Education.

Collaboration between KMC and NCC Education:

The collaboration between KMC and NCC Education marks an important partnership in delivering high-quality education in the field of technology and computing. NCC Education, a UK-based internationally awarding body, has a rich history and expertise in providing comprehensive qualifications.

With centers in over forty countries, four international offices, and academic managers worldwide, NCC Education has established a global presence. This global reach allows KMC to benefit from NCC Education's international expertise and resources.

1. Cyber Security and Ethical Hacking

Course Structure:

The Cyber Security and Ethical Hacking courses offered by KMC are designed to provide comprehensive knowledge and practical skills in the field. The curriculum covers a wide range of topics to ensure students gain a deep understanding of the subject matter. The following is an outline of the course structure:

1. Cryptography Fundamentals
2. Public-Key Infrastructure
3. Web Security
4. Email Security
5. Data Protection
6. Vulnerability Assessment
7. Authentication
8. Access Control
9. Firewalls
10. VPN (Virtual Private Network)
11. Remote Access
12. Wireless Security

2. Artificial Intelligence

Course Structure:

The AI course offered by KMC is carefully crafted to provide students with a comprehensive understanding of AI principles, methodologies, and applications. The course structure encompasses a range of topics, enabling students to develop a strong foundation in AI. Here is an outline of the course structure:

1. Problem Solving Using Search
2. Knowledge Representation
3. Fuzzy Logic
4. Machine Learning
5. Neural Networks
6. Decision Trees
7. Genetic Algorithms
8. Expert Systems
9. Natural Language Processing
10. Intelligent Agents

3. Data Science

Course Structure:

The Data Science course offered by KMC, in collaboration with NCC Education, is designed to equip students with the essential skills and knowledge required for success in the field. The course structure encompasses a diverse range of topics, covering both theoretical foundations and practical applications. Here is an outline of the course structure:

1. Data Collecting
2. Analyzing Data
3. Algorithms
4. Structure, Manipulate, and Represent Data
5. Developing and Testing Program Code
6. Inferential Statistics
7. Data Visualization
8. Data Science Project Lifecycle

International Collaboration

Kathmandu Model College (KMC) has been actively engaging in global partnerships to promote academic excellence and provide diverse learning opportunities to its students. Through strategic collaborations, KMC has established strong ties with renowned institutions worldwide.

Georgia Southwestern State University, USA

Kathmandu Model College (KMC) and Georgia Southwestern State University in the USA have signed an Memorandum of Understanding (MOU) to enhance cooperation and promote academic and educational exchanges between the two institutions. The Memorandum of Understanding (MOU) includes the exchange of students and faculty or staff, offering special academic programs, and extending study abroad opportunities. This program provides immense benefits for meritorious students with outstanding academic performance.

QTEC Learning Solutions, UK

In today's technologically advanced world, soft skills are imperative for learners of all age groups to realize their full potential. QTEC Learning Solutions, UK goes beyond the prescribed classroom textbooks and adheres to Qualifications and Credit Framework (QCF) benchmarks. We ensure that learners are provided with sufficient and relevant support and resources to attain their growth and development as individuals in multiple ways. QTEC Learning Solutions, UK strives to offer the highest quality Soft Skills Qualifications by developing programs that are practical and relevant, maintaining international quality standards, supporting teachers to facilitate the growth and development of learners, empowering learners in multiple ways so that they can maximize personal benefits from our soft skills programs, and assessing learners using methods that will enable them to express their practical and transferable skills.

Mokpo National University, South Korea

KMC has established a partnership with Mokpo National University, South Korea, for the exchange of students and teachers between the two nations.

Tongren Polytechnic College, China

KMC has signed an agreement with Tongren Polytechnic College, China, for the exchange of students and faculty, joint research, mutual assistance and services, and the exchange of information and developments between the two nations.

University of Missouri, USA

KMC has signed an agreement with the University of Missouri, USA, which will encourage the exchange of faculty members for joint teaching and research programs.

Stony Brook University, New York, USA

KMC has recently signed an Memorandum of Understanding (MOU) with Stony Brook University, New York, USA to collaborate and promote research activities, enhance academic services, and develop academic excellence through faculty development.






**+2 SCIENCE
MANAGEMENT
LAW**



KMC EDUCATIONAL NETWORK



**KATHMANDU MODEL
SECONDARY SCHOOL**
(BAGBAZAR, KATHMANDU)

Bagbazar, Kathmandu
Tel: 5328321, 5342775
ktmmmodelcollege.edu.np

Courses Offered: **+2 SCIENCE
MANAGEMENT
LAW
HUMANITIES**



**KATHMANDU
MODEL COLLEGE**
(AFFILIATED TO TU)

Bagbazar, Kathmandu
Tel: 5342121, 5342015
kmcen.edu.np

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BCA | BA | BBS
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(BALKUMARI, LALITPUR)

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MODEL INSTITUTE OF TECHNOLOGY
A College Inspiring Innovative Intelligence

Bagbazar, Kathmandu
Tel: 5901393, 9851344685
mitnepal.edu.np

Courses Offered: **BBA
BIT
MBA**



**HIMALAYA
COLLEGE OF ENGINEERING**
(Affiliated to Tribhuvan University)

Chyasal, Lalitpur
Tel: 5440555, 5547266
hcoe.edu.np


Courses Offered: **BE Civil | B. Architecture
BE Electronics, Comm. & Information
BE Computer | BCA | B.Sc. CSIT**



**KMC
School**

Buddhanagar, Kathmandu
Tel: 4797111, 4792016
kmcschool.edu.np

Courses Offered: **PLAY GROUP
TO
GRADE X**



**Apollo
International College**
(Affiliated to Pokhara University)

Lakhechaur Marg, New Baneshwor, KTM
Tel: 4474845, 4474851
appollointcollege.edu.np

Courses Offered: **BBA
BBA-BI
BHM**



**UNIVERSAL
ENGINEERING & SCIENCE COLLEGE**
(Affiliated to Pokhara University)

Chakupat, Patan, Lalitpur
Tel: 5260419, 5260592
universalsc.edu.np

Courses Offered: **BE Civil
BE Computer**



**BUTWAL MODEL
COLLEGE**
(Affiliated to Pokhara University)

Padsari, Rupandehi
Tel: 429192, 429193
butmc.edu.np

Courses Offered: **BBA
BHM
MPGD**



**New
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College**

Santinagar, Kathmandu
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BSW | BA | BCA
BSc. CSIT | MA in English**



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