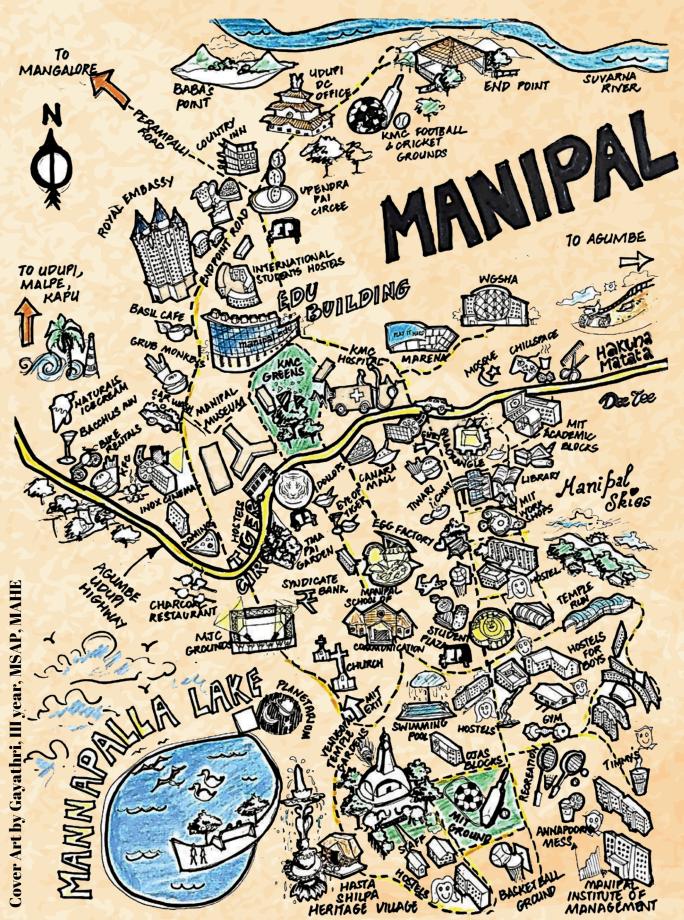


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Table of Contents

Virtual Internships via MAESTRO

Manipal and Sheffield	03
Culture and Communication to strengthen Indo- Polish Relations	04
Ochsner's Virtual Academic Series with MAHE	05
Comprehensive Care: Pink and Donate Life	05
Falling Walls Lab for Early Career Innovators	06
MAHE signs MoU with Health Education England	08
International Conference on Contemporary Issues	08
Web-conference in Nephrology with Srinakharinwirot University, Thailand	09
Blended Learning: The Future of Dental Education	09
Webinar on Cephalometric Superimposition by SUNY Professor	09
Faculty Grants and Achievements	10
Student Awards and Achievements	11
TEDxMAHE - Countdown to a Better Future	13
'Namaste Manipal' - Greeting Interns the Indian Way	13
Map It Out	14



Dr Malcolm ButlerVice-President and Director of Global Engagement
University of Sheffield

The University of Sheffield is very proud of our long standing and successful partnership with MAHE. Our joint efforts have so far led to multiple co-authored publications and successes in securing externally funded fellowships, research grants and funding for a joint summer school project. As one of our priority partners, we are looking forward to broadening and deepening the relationship with MAHE beyond our current research collaborations in cancer biology, dentistry and neurological disorders and to explore educational projects and programmes under Vice-Chancellor Dr Venkatesh's leadership.

The University of Sheffield - a member of the UK's prestigious Russell Group of research-led universities - aims to deliver life-enhancing research and education which transforms the lives of our graduates and shapes the world we live in. Sharing knowledge and working in collaboration with partners worldwide is central to our new vision. This ambition to drive international research excellence, enhance the experience of our PhD community and provide opportunities for all students to develop globally recognised graduate skills also resonates with the new Indian National Education Policy and its emphasis on the internationalisation of Higher Education.

We aim to work with MAHE to maximise external funding opportunities for joint research projects, particularly in the research areas of our flagship institutes. Key to our plans for greater internationalisation of our student community and curriculum are the development of pathways and joint programmes at both undergraduate and postgraduate levels as well as staff and student mobility between our institutions. We are exploring an undergraduate pathway programme with the Faculty of Engineering in Sheffield and the MAHE International Centre for Applied Sciences. We are also considering opportunities for a postgraduate masters pathway in drug discovery, stem cell technologies, tissue engineering and in global health.

I believe that the continued strength of our partnership will provide a unique opportunity for our institutions to work together to address some of the biggest problems of our time. As we adapt to this rapidly changing world, we will continue to build on our collective ambitions for the benefit of all.



Justyna GuziakPolish Language Instructor

Culture and Communication to strengthen Indo-Polish Relations

Languages and communication are areas of my expertise and passion, and I dare say I work at it. My way to Manipal was long; it includes work as a lecturer at the biggest universities in Poland, Uzbekistan, Mongolia, Australia, Thailand, Georgia and North India. Rich in that experience, I strongly believe I found the place which seems to be perfect to share it - MAHE. And I am here to strengthen the bridge of communication and give an opportunity to students and my colleagues to know Poland better.

Teaching is the most rewarding aspect of my professional career and forms the core of my identity. I teach Polish along with soft skills and communication techniques because my deep understanding of culture does not allow me to separate language from its context. Words are not enough to build real communica-

tion which is vital for better understanding and collaboration. Knowledge and understanding helps create rapport and make cross-cultural relations evolve. I always make sure that students who choose to go to Poland to continue their education are excellently prepared not only in a matter of language but they understand the nuances of Central European Culture. I found this method to be particularly beneficial because it promotes students' engagement by fostering critical thinking and reflection. I take it as a given that I need to show my students why they should care about learning. This is learning in action, and it has no substitute.

To build better communication the Ministry of Higher Education and Science in Poland established the National Agency for Academic Exchange. The mission of NAWA is to foster collaboration between Poland and universities around the world in the area of science and higher education. Science and higher education have always been an intensely internationalised area of human activity. Internationalisation helps to enhance communication. NAWA by promoting science and higher education and supporting international mobility of students, academics, and and students to Polish researchers gives academics access education Internationalisation provides for the exchange of knowledge, experience and allows the use of the research potential of scientists and infrastructure in a multi-dimensional way and contribute to a better quality of didactics. This exchange of ideas and experiences is rewarding for both sides and it gives incredible opportunities to enhance communication.

The word 'communication' comes from the Latin word communicare meaning "to share, to have in common." From this root meaning, we get another related word: community. Let's create in Manipal Polish-Indian community of people who know each other, understand each other well, and have a lot in common.



Ochsner's Virtual Academic Series with MAHE

This ambitious programme on 'Pediatric Hematology-Oncology' using the ECHO project from University of New Mexico to have a series of academic programmes between Ochsner Pediatrics and the Kasturba Medical College (KMC), MAHE, Manipal was very well received by the faculty, postgraduates and students. The imagination, initiative and hard work of Dr Sindhura Lakshmi MD, Associate Professor from Pathology, KMC Manipal and Ms Chrisey Smith MBA, Coordinator of the ECHO Programme and part of the International Division at Ochsner played a major role in the initiation and successful conduct of the series. The sessions were moderated by Dr Warrier, Dr Vasudeva Bhat, and Dr Sindhura Lakshmi. Dr Rohit Singh, Director Alumni Relations, MAHE, Manipal supported immensely by spreading the word among the alumni and encouraging participation by senior alumni. The discussions were excellent due to the large number of participants from a broad spectrum of specialties from China, UAE and KSA as well as from the Peds Hemonc chapter of the Indian Academy of Pediatrics.



Dr Raj Warrier MD

Pediatric Hematology Oncology, Ochsner Children's Hospital
Professor Emeritus and Clinical Professor, Louisiana State University
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Professor, University of Queensland, Australia
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Comprehensive Care: Pink and Donate Life

Manipal Comprehensive Cancer Care Centre (MCCCC) of Kasturba Hospital, Manipal celebrated its second anniversary on October 23, 2020. The Shirdi Sai Baba Cancer Hospital and Research Institute of Kasturba Hospital, Manipal started 29 years ago as the second cancer care centre of Karnataka which was reconstituted as a Comprehensive Cancer Care Centre in 2018. MCCCC has services like Medical Oncology, Surgical Oncology, Radiation Oncology, Paediatric Oncology and other ancillary services like Onco-Pathology and Onco-Rehab to name a few. It also has ten site-specific tumour boards that facilitate comprehensive and accurate cancer decision making and treatment.

Professor Dorothy Keefe, CEO of Cancer Australia, the Australian Government was the chief guest of the programme. She spoke about the transformational changes she made in cancer care in Australia as an administrator.

On this occasion, an oncology electronic medical record system called MODEMS was launched for the collection of cancer data. There were two other important apps that were introduced - Pink and Donate life. The former is a breast cancer app that provides suggestions and information for self-examination of breast and facilitates regular screening appointments and the latter helps people register as blood donors from the city and facilitates them to connect directly to a blood bank.



The Falling Walls Lab India 2019 was organised by the DAAD - German Academic Exchange Service and DWIH - German Centre for Research and Innovation, New Delhi in partnership with the Department of Clinical Embryology, Kasturba Medial College (KMC), MAHE, Manipal. Falling Walls Lab is a unique competition that provides young researchers and entrepreneurs a platform to present their research project, business plan or social initiative.

Among the 16 finalists from across India selected through a rigorous process by field experts, Mr Mayur Shetty from Manipal Institute of Technology (MIT), Manipal won the first position for Breaking the Wall of Ice-Box for cold chain management. There was yet another award on this occasion for young talents in the context of entrepreneurship. Sidharth Ramesh from KMC, Manipal was the proud recipient for his presentation on 'Breaking the Wall of medical data'.

Innovation in Cold-Chain Management and Vaccine Transportation

Behind every good idea is a big lightbulb moment. Could you tell us what was yours?

I was catching up with my mentor Dr Arun Shanbhag (Chief Innovation Officer, MAHE) and we were discussing some of the healthcare challenges in the country. He had just moved to India with his two-year old daughter and wife. He happened to mention that the Angwandi worker (Midwife) who came to vaccinate his daughter came to the house with Oral-Polio vaccine vials in a chai-thermos flask with ice-cubes in them. By the time she opened it, the ice had melted and there was water seeping out of it. This is one of the archaic methods that is still in practice for transport of vaccines in the last-mile of delivery. This was the moment I realised that this is a problem we should be solving.

Could you tell us about your experience at Falling Walls Conference in Berlin and how it has impacted your life?

It was a great experience interacting with young researchers, scientists and engineers from all fields across the world. The panel included some eminent scientists and the chairperson of the Nobel committee too. It was a great networking opportunity to understand the kind of cuttingedge product development happening all around us.

What are your plans with regards to making your device available across the country and even beyond?

We are presently live in three states in India and have deployed our solution for various applications like transport



Mayur Shetty (Right)
Winner, Falling Walls Lab 2019

of veterinary vaccines, blood samples, COVID-19 specimens etc. We are now scaling-up our production capability so that vaccines reach the farthest corners of the planet without losing efficacy. Our vision is to make our immunisation system globally accessible and to ensure no child dies from a vaccine-preventable disease.

Breaking the Boundaries of Data Sharing in Healthcare



Sidharth Ramesh
Winner of the
Entrepreneurship Award
Falling Walls Lab, 2019

Could you tell us about the inspiration behind your revolutionary idea?

After joining medical college, I became interested in programming and took a few online courses in data science and machine learning. I realised that there was immense potential in using these techniques in healthcare to obtain better patient outcomes. I wanted to experiment with real healthcare data, but realised that obtaining this data is very difficult, not only for a student data scientist but for the patients themselves.

Have there been any recent developments in your product Medblocks?

Health records are confidential and need to be handled with the utmost care; so democratising medical records is not a simple problem to solve. While this process could be automated, it requires that the data being recorded should be uniform across hospitals, which is not the case with the health industry

today. For this reason, I have started focusing more on the actual problem of uniform data capture. Currently, I am working on a live voice transcription product that captures the voice of practitioners and sends them to dedicated trained professionals who can transcribe it to uniform meaningful data. Once Natural Language Processing technology and Machine Learning technology progresses enough to capture such complex data accurately, the data collected from the voice transcription model can be used to make an automated voice transcription solution.

Could you tell us more about your experience at the Start-up bootcamp in Berlin that you attended in November 2019?

The start-up boot camp in Berlin gave us formal training on how to think about a business and how to run it. It introduced me to the Business Model Canvas, which I still use to brainstorm how a start-up should function. I also got to meet some eminent people in the field who have helped me with Health Informatics standards like openEHR. In fact, Medblocks relies on EHRBase for some of its functionality.

In the current climate of innovation and technology, how can we bring about more interaction between health sciences professionals and STEM majors to further advances in medical technology?

Generally, the health professional asking for a technology-based product does not know what they really need. Keeping this in mind, a two-level modelling approach should be followed. The healthcare expert should be fully responsible for the clinical content of a system and the technology expert should build a system that can accept and function with any clinical content without bias. The main focus of STEM graduates should not be to collaborate with health sciences people directly, but to develop a system that is able to adapt and deal with change.



Lt Gen (Dr) M D Venkatesh, Vice-Chancellor, MAHE, Manipal inaugurated the Global Training and Education Centre (GTEC) at Manipal College of Nursing (MCON), MAHE, a completely funded and dedicated IELTS/OET language training centre for nurses and nursing students.

Dr Anice George, Dean of MCON, Manipal emphasised the need to prepare graduates for international trends. Dr Raghu AR, Director International Collaborations, pledged to help enhance graduate's international employment opportunities via collaborative learning activities. Dr Raj Murali, Director and Dr MK Shashidhara, Deputy Head for the Education and Quality GTEC HEE Global Medical Program, have given Manipal a pathway through the MoU for developing the first model GTEC at Manipal. The centre is coordinated by Dr Elsa Sanatombi Devi with the continuous support of Ms Joanne Bass, lead English Language Teacher, and Mr Vidyashankar AV, CEO of Abhinava Global Academy.

International Conference on Contemporary Issues

Manipal International University (MIU), Malaysia conducted its second International Conference on Contemporary Issues (ICCI) in collaboration with Manipal Institute of Management (MIM), MAHE during November 25-26, 2020 in Malaysia. There were multiple researchers, scholars, and students presenting their perspectives on contemporary issues in the domains of Business, Science, Engineering, Education and Media.

ICCI '20 was held virtually with significant number of participants attending the conference in the comfort of their homes. Yang Amat Mulia Tunku Zain Al-'Abidin ibni Tuanku Mukhriz was the chief guest for ICCI '20. The event was also attended by the leadership members of MIU including Professor Dr Patrick Kee - Vice Chancellor and Mr Bharath Vasudevan - Principal Operations Officer.

The conference witnessed a gamut of deliberations and discussions which was pivotal in building an effective platform for knowledge sharing, communications and cooperation.

Web-conference in Nephrology with Srinakharinwirot University, Thailand

Department of Nephrology, Kasturba Medical College (KMC), Mangalore has been organising a monthly virtual 'MAHE-SWU Academic Conference' in association with the Department of Nephrology, Srinakharinwirot University (SWU), Thailand.

This partnership has opened a platform for trainee nephrologists to collaborate with foreign universities. It gives postgraduate students and faculty members a chance to discuss interesting cases, renal pathology slides, and academic collaborations.

Presently, a monthly web conference is held allowing postgraduates to present their work/cases virtually to an international panel. It is a rare opportunity for the students to get international exposure and enhance their learning. Future plans include short fellowships for postgraduates in nephrology focused at specific clinical/research areas and faculty exchange.

Dr Mayoor V Prabhu, Associate Professor, KMC Mangalore (Adjunct at SWU) and Dr Siribha, Professor, SWU, Thailand (Adjunct at KMC) are the resource persons facilitating the conference.

Blended Learning: The Future of Dental Education

"Curriculum Conclave III: Blended Learning in BDS Curriculum" was conducted successfully from October 15-17, 2020 at Manipal College of Dental Sciences (MCODS), Mangalore. The conclave witnessed discussions and deliberations from international faculty from renowned dental institutions. A presentation on "Best Blend in Blended Learning – Basics to Beneficial Practices" was presented by Dr Prashanti Eachempati - Professor and Head of Prosthodontics, Faculty of Dentistry, MMMC, Melaka, Malaysia based on the principles of blended learning and emphasis on the appropriate use of technology for the same. Following this, a webinar was held by Dr K Ramnarayan - Chairperson, Manipal University, Jaipur who spoke about student motivation techniques through different types of feedback and assessment. The online program had Dr Tapasya K - VSPM's Dental College, Nagpur, India and Professor Michael George Botelho - University of Hong Kong who spoke about "Active Blended Learning: Online tools for engaging students" and "Supporting clinical skills learning online and in-class – providing synthetic clinical experience" respectively.

The final day of the programme encompassed lectures by Dr Latha Davda from the University of Portsmouth and Dr Abhiram Maddi from the University of Buffalo.

Webinar on Cephalometric Superimposition by SUNY Professor

The Department of Orthodontics and Dentofacial Orthopedics in association with the Alumni Relations, MCODS, Mangalore conducted a webinar on "Cephalometric Superimpositions" on October 24, 2020. The webinar was led by Dr Pramod Philip MDS, MS (Orthodontics), a renowned academician and clinician who serves as the Assistant Professor (tenure track) at Department of Orthodontics, School of Dental Medicine, State University of New York (SUNY) at Buffalo. Dr Pramod Philip shared his valuable insights about how superimposition can help the clinician understand treatment changes.



The Journey in Pursuit of Knowledge

Mr Naresh Nayak P, Associate Professor, WGSHA, MAHE, Manipal

It has always been a lifetime ambition to seek an academic career and earn a PhD, but never anticipated the struggles of a global pandemic. I applied to the University of Otago for the Doctoral Scholarship and was surprised at how anxious and nervous I felt. Fortunately, I was successful and this gave me the confidence and drive I needed to pursue a full-time education as a doctoral training student. Yes! It was an awful chance but here I am at the University of Otago, New Zealand. I am grateful to WGSHA and MAHE for trusting me and giving me this opportunity to pursue my doctoral studies here at the University of Otago.

SICI Grant Nurtures Dreams of an Author

Dr Jagriti Gangopadhyay, Assistant Professor, MCH, MAHE, Manipal

I have been working on a book titled 'Culture, Context and Ageing: Narratives of Older Indians from India and beyond' to be published by Springer Nature. This book demonstrates that ageing is not a homogeneous process and culture plays a key role in shaping our later lives. The grant from SICI will aid the promotional activities of this monograph. This monograph presents a comparative approach of ageing experiences among older Indians in India and Canada, that highlights the intersections between class, gender and age in multiple settings of India and beyond; it discusses changing filial ties, later life roles and gender ideologies among middle class older Indians in different cultural contexts. Through this monograph and the grant, I intend to contribute to the growing relationship between the two countries: India and Canada.

Revisiting Vedanta with University of Toronto

Mr Srinivasa Kumar N Acharya, HOD, Dept of Philosophy, MAHE, Manipal

MAHE, Manipal in a collaborative partnership with University of Toronto (UoT), Canada have been granted the Shastri Institutional Collaborative Research Grant (SICRG) for a period of two years for the project on 'Argument and Counterargument in Early Modern Vedanta'. They seek to chart the rise of Vedānta as an intellectual system by focusing on one site of intensification of scholarly activity in the sixteenth-century debates between the rival schools of Dvaita Vedānta and Advaita Vedānta. This project is led by Ajay Rao, Associate Professor, Department of Historical Studies and Director, Centre for South Asian Civilisations, UoT in collaboration with Srinivasa Kumar N Acharya, Head of the Department of Philosophy, MAHE.

Emergency Medicine Faculty Receives Global Recognition

Dr Vimal Krishnan S, Associate Professor, Department of Emergency Medicine is a recipient of the prestigious ACEP20 Global Leadership Award representing India. It is indeed a proud moment for KMC Manipal that Dr Krishnan represented India at this award ceremony. The Global Leadership Award is granted by ACEP Scientific assembly by the American College of Emergency Physicians (ACEP) which is the world's largest and most prestigious Emergency Medicine educational meeting. The Global Leadership Award includes a travel grant to the ACEP assembly and active engagement in the exemplary global event with long term committed collaboration with ACEP.

Dr Krishnan was also invited to be a part of the elite faculty core of educators for the Emergency Disaster Global Health Sciences (EDGHS) Fellowship course. EDGHS course is



Dr Vimal Krishnan S
Associate Professor
Department of Emergency
Medicine, KMC
MAHE, Manipal

conducted by Hospital Selayang, MAHSA University, Malaysia in collaboration with International Indian Institute of Emergency Medical Services (IIEMS) India, the Institute of Disaster Management at the University of Georgia, USA and the Division of Emergency and Disaster Global Health at the University of Texas, Southwestern Medical Center, USA.

Student Awards and Achievements

Learning Reflection at the European Scientific Institute: Student Recounts her Experience



Chandini B
Research fellow
Manipal School of Life
Sciences, MAHE, Manipal

'Precision Oncology' summer school offered by European Scientific Institute (ESI), France gave me the confidence to work with people from 13 nationalities, breaking language barriers and understanding cultural differences to achieve one common goal with perseverance and absolute teamwork. I led the team comprising of master's students from University of Lyon, France. Our innovative project titled "Anti-Oncogram" aimed to develop a service based on a process exploiting innovative biosensors to accompany clinicians in finding the most appropriate drug to treat patients, making Precision Oncology a reality. We won the ESI Kudos award for our project and I believe respecting every team member's ideas and encouraging one another in the process was the key to our success. I learnt presentation skills, leadership values and the greatness of team work through this short journey.

I would like to thank the Director and faculty of Manipal School of Life Sciences (MSLS) for this wonderful opportunity.



Sufyan Ibrahim and Himanshu Yashavanthi Nagesh, guided by Dr Revathi P Shenoy, Kasturba Medical College (KMC), Manipal won the prestigious Fujio Cup Quiz (FCQ) organized by Nichi-In* Centre for Regenerative Medicine (NCRM). NCRM NICHE 2020 is an active knowledge gaining academic event on stem cells and regenerative medicine. FCQ, a part of NCRM NICHE started in 2006 is being conducted in Tokyo, Japan since 2017 in which young scholars of different specialties of science from around the world participate, cross several steps of quizzing and assignments to win the trophy. FCQ as an innovation platform has started attracting multinational companies for collaboration following development of novel solutions like BEES-HAUS for urethral structure, cartilage repair and the recently granted patent on microgravity based enhancement of nitric oxide synthesis by blood cells, specially NK cells. Alumni of top scoring teams of FCQ (FCQ elites) are eligible to nominate candidates to Edogawa NICHE Prize.

Best Presentation at the Engineering Design Hackathon

UQ Engineering Design Hackathon organized by University of Queensland, Australia was held on a virtual platform from October 8- 21, 2020. The objective of the Hackathon was to design an 'open-source', low-cost, simple, easy to use and easy to build ventilator that can serve COVID-19 patients in an emergency disaster-relief context. The Hackathon saw more than 50 teams participating from various universities across India. Three teams from MAHE participated in the hackathon. The team Udit Rathee (Mech Engg, MIT Manipal), Mounik GS (ECE Engg, MIT Manipal) and Sufyan Ibrahim (KMC Manipal) mentored by Nithesh Naik (Faculty of Mechanical & Manufacturing Engg, MIT Manipal) presented the concept of Respiro. The team had a special mention in the hackathon and were awarded with Best Presentation Style at the Hackathon.

Team Broca's Braintrusts brings Glory to KMC

Khon Kaen University, Thailand organized its sixth International Challenge on Emergency Medicine and Related Basic Science 2020 (KKU ICEM) on a virtual platform. Team Broca's Braintrusts comprising Sufyan Ibrahim, Anurupa Udupi and Suhan Rai, representing Kasturba Medical College, Manipal, won the Silver Medal at this year's KKU ICEM. The main theme of this year's challenge was common emergency problems, which brings great opportunity for students to test their knowledge of medical emergencies in times of COVID-19. In addition to academic challenge, students also got to share and explore international cultural experience through fun activities and form bonds with medical students worldwide.

TEDxMAHE - Countdown to a Better Future

Countdown 2020 is the first edition of a global initiative by TED to build a better future by cutting greenhouse gas emissions in half by 2030 in the race to a zero-carbon world - a world that is safer, cleaner and fairer for everyone. The first ever TEDxMAHE Countdown was held virtually on October 25, 2020 and was attended by 200 participants all over the world.

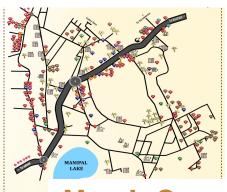
The speakers for the event were Georgios Kostakos (Co-founder of FOGGS) from Brussels, Chao Duncan (COO, Earthbanc) from Australia, Alexander Verbeek (Environmentalist and Yale World Fellow) from Netherlands, Keshav Gupta (Founder- The Dais) from New Delhi, India, Derrick Ian Joshua (Assistant Director, Environment Sustainability, MAHE), and Rakshit Naidu (Engineering Undergrad at Manipal Institute of Technology, MAHE) from Manipal, India.

TEDx MAHE has undertaken few Live Projects under the Countdown Initiative to realise the dreams of a better future.



International Association for the Exchange of Students for Technical Experience (IAESTE) LC Manipal has a tradition of providing the best incoming experience possible through 'Namaste Manipal'. This time we organised an online event for our interns from around the world. What followed was a fun, enthusiastic, and memorable evening where the interns indulged in a variety of exciting games like Family feud, Charades, and Jeopardy. The interns competed in teams to test their general knowledge. The theme as well as the questions were based on India to give them an insight into our country and culture.

We had a very exciting and fun talk about India as the interns were intrigued by the cultures and traditions of India, including Ramayana, Yoga, Vegetarianism, Festivals, Religions and many more. This provided a unique opportunity to bond with each other and make memories despite the miles between them. We were delighted to hear about their affection towards our country and its culture and we are looking forward to hosting them in India in the near future.







Map It Out

With November drawing near, the Cultural team of Campus Ambassadors Manipal (CAM) announced a fascinating event in the form of an online competition to create a 2D or 3D rendition of the MAHE Campus, Manipal. The competition centered around art and digital drawing skills of the students of MAHE. With the posters designed by the Working Committee of CAM and broadcasting the same to all clubs and colleges of MAHE, the competition began on the October 14 with registrations closing on the October 18, 2020. With the thorough publicity from the PR and Social Media team, innumerable talents were encouraged to channel their expertise for the creation of 2D and 3D maps/models. The competition was successfully concluded by the end of November with the winners declared by the panel of judges constituting the OIAC.

Virtual Internships via MAESTRO

Manipal Academic Exchange for Student Traineeship and Research Outreach (MAESTRO) is an initiative of the Office of International Affairs and Collaborations (OIAC), to facilitate the academic exchange for student traineeship and research outreach process for its applicants. For more information visit: http://maestro.manipal.edu



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