



AHMEDABAD
UNIVERSITY

Independent Study Period

ISP
2017



Independent Study Period 2016

Students often have diverse passions but no means to explore them, especially if it is not related to their specialisations. The Independent Study Period (ISP) at Ahmedabad University offers them a chance to explore their passions and go beyond the classroom, making their academic learning truly interdisciplinary and conceptual understanding more experiential. This is made possible through consistent collaborations with peers in a project-based environment.

ISP 2016 was a unique learning experience. Spanning across three weeks and 30 unique courses that ranged from “Design Thinking” to “The Art of Argumentation from the Mahabharata”, our courses became a crucial way for students to experiment with newer ideas and methods of learning. It advanced our belief in experiential learning through intimate studio workshop and advanced field/laboratory work.

Learn more about ISP 2016 in the centre-fold.

Independent Study Period 2017

ISP 2017 courses are rooted in disciplines like Literature, Sociology, Design, Science, Technology, Heritage, Humanities and Languages, and more, but cut across areas and specialisations. Rather than following the regular curricular period format, these courses are offered in an 8-hour a day format over 10 consecutive days, enabling concentrated learning for students through block courses, studio-inspired experiential courses, perspective, skill building and field courses, innovative experiments in learning, and more.

Every ISP course fulfils the following objectives -

- Helps ignite a passion or interest in the students.
- Helps them surpass disciplinary boundaries: These courses don't just appeal to one set of students since the University offers a variety of specialisations in business, engineering, life sciences and computer science, and all courses are open to students across disciplines.
- Helps them develop a better understanding of theory: ISP makes sure that learning is not trivialised and academic rigour remains uncompromised.
- Helps promote the learning-by-doing methodology: All courses follow a hands-on approach and classroom teaching is minimised.
- Helps produce tangible physical outputs that can be showcased during the ISP exhibition: A public exhibition inviting parents, the University community and people from the city is organised at the end of ISP to showcase student and faculty work. Outcomes include posters, pictures, products, etc.

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Credits	Maximum Strength	Course Fee
2	40	₹ 4000 (including certificates)



Ezenith Education: This course will be led by experts from Ezenith Education known for their specialisation in the functioning of the automobile industry.

Outline

Anatomy of Automobiles comprises of 70 per cent practical experience and 30 per cent theoretical knowledge to cover all the essential aspects of both car and bike working systems.

Methodology

Experts from the industry will give participating students an insight of the industrial functionalities by providing a hands-on experience.

Recommended for

Automobile enthusiasts and students who are curious about the inner workings of a car and bike. No prior knowledge of Mechanical Engineering is necessary.

Deliverables

Hands-on experience on live car and bike engines.

Credits | **Maximum Strength**

2 | 30



Manish Jain graduated from the Indian Institute of Technology, Kanpur with a degree in Electrical Engineering. He works with at Science Center at IUCAA in Pune. Previously, he worked in the area of VLSI design software for 15 years, at Synopsys in Bangalore, Karnataka and Mountain View, California. Most recently he was a Director of R&D and Synopsys Scientist working on Low Power Simulation.



Ravi Sinha finished his BTech from IIT Delhi in 2014 and is pursuing his BA in Education from TISS. He is also the co founder of CLI at IIT Gandhinagar and is passionate about making learning hands-on and joyous.



Anirban Dasgupta did his BTech from IIT Kharagpur in Computer Science in 1999 before earning his PhD from Cornell University. He worked for Yahoo Lab till 2013 before returning to India to teach Computer Science to kids at IIT Gandhinagar. He is very passionate about Recreational Maths and wants to expose children to the joy of Maths in their daily lives.

Outline

This course explores a number of mathematical ideas through lecture/demonstrations, problem solving and game playing. Students will make 3D structures, build motors, play games and solve logical puzzles as an introduction to the geometry of 3D structures, basic mathematics behind simple physical systems, as well as an introduction to the core mathematical ideas behind computing. We will explore several ideas : Why did a man have to lose his head (literally) to prove the volume of a sphere thousands of years ago? How does a soccer ball gets its shape? Why did Egyptians make square pyramids and not triangular in their quest to maximise volume for afterlife storage? We will create physical structures, test and build our intuition about these structures. In this course we will get our hands dirty, by building, cutting, sticking – pulling things apart and putting things together. We will make spinners, motors, generators and gliders using inexpensive material.

Methodology

Hands-on Learning, Contextual and Historical Perspective.

Recommended for

Students who have loved Math and Science all their lives. Also students who have dreaded Math and Science all their lives.

Deliverables

Hands-on mechanical toys.

Credits | **Maximum Strength**

2

30



Saptam Patel is Chair of the BCom Programme at the Amrut Mody School of Management, Ahmedabad University. She has been a faculty in the area of Communication since 1999. She graduated from St. Xavier's College, Ahmedabad and did Masters, MPhil and PhD from the School of Languages, Gujarat University. She is an artist and studies Fine Arts from Sheth CN College of Fine Arts. She has published, exhibited her art, presented and participated in several conferences and seminars. Presently, her Research is focused on Gender Studies.

Outline

Re-imagining Masculinities and Femininities is a course where conventional concepts of masculinity and femininity will be interrogated. The course is designed to challenge students' notions of 'the normal'. Students will be exposed to various environments, and made to see things above and beyond their own social sphere. It will be an attempt to make them aware of the various social realities of life and to question the multiple layers of hierarchies and to see the several levels of systematic oppression that are invisible to the untrained eye. The attempt of this course is to make students understand their privilege and teach them how to be conscientious, equitable individuals. The course will also introduce students to some central and essential concepts of gender.

Methodology

The course is a mix of theory and practical project based learning. The students will be required to go on field and construct/reconstruct the idea of masculinity and femininity on the basis of their observations and discuss it in class. They will be, simultaneously, exposed to the academic theories of social, cultural and political construct of the concepts of masculinity and femininity.

Recommended for

Students to whom diversity and humanity issues don't matter are invited for this course as much as the ones for whom they matter. The course, however, will be of interest to anyone who feels that society is neither fair to women nor to men when it defines canons for masculinity and femininity.

Deliverables

Film, Posters, Installations.

Credits

2

Maximum Strength

25



Prashant Dhawan is the co-founder of the Biomimicry India Network. He holds a Master of Science in Biomimicry from the Arizona State University, USA and Biomimicry Professional Certification from Biomimicry 3.8, USA. He also holds a degree in Architecture from SPA Delhi, and an MBA from ISB Hyderabad.



Seema Anand is a Biomimicry Specialist (Biomimicry 3.8 Institute, USA, 2011) and a practicing Architect in Bangalore. She is a visiting faculty member at RV College of Architecture, Bangalore. She is the co-founder of Biomimicry India Network and Biomimicry India Lab and Studio.

Outline

This course will provide an introduction to 'Biomimicry', a new discipline that looks at nature as a source of ideas and solutions to help solve human challenges. Each day during the course students will see and learn something new about the amazing patterns, designs and solutions in nature. They will also get to play learning games and step outside to explore nature. Students will learn about biomimicry tools and methodology that they will apply as a group project to develop a nature inspired innovation/solution to a human challenge.

Methodology

The projects will be decided based on the students' core disciplines and their present ability to think and act on design situations. However, the general direction of projects and assignments is: self and environmental observations, designing/redesigning real world systems via illustrations, text and charts, presentations, skits and actual field assignments. Real world problems related to communications, economics, systems, technology, diseases etc. will be taken on.

Recommended for

Any students who is focused and serious about learning something new, challenging their pre-existing thought processes and actively experimenting during the course.

Deliverables

1. Physical models of how nature works - explorations of specific biology (looking at nature functionally).
2. Design application explorations (in various media) : the group projects of the participants design challenge - Integrating Biology in Design Bio-philica.

Credits	Maximum Strength	Course Fee
2	15	₹ 9000 (including a four day trip to Polo Forest and Kutch)



Punit Lalbhai's fascination with birds started when he was three years old. He has a Bachelor degree in Conservation Biology from University of California, Davis, and a Masters in Environmental Science from Yale University, both of which enabled him to study birds and bird communities across North America, Africa and India. Punit then went on to get an MBA from INSEAD, France, and now works for Arvind Ltd. on developing business models that function at the intersection of sustainability, material science, engineering and conservation.

Outline

Learn about birds, their ecology, habitats and behaviour. A great deal of learning will happen in the field. The course has a every day. field component. The highlight will be a 4-5 day trip to Kutch (and other areas en route). This component is designed to familiarise students with techniques and methods that ornithologists use to gain insights into bird ecology and conservation.

Methodology

This course will employ the use of a variety of teaching methods. Aside from a few lectures, a bulk of the learning is conducted through field observations and doing independent (but guided) research to deepen the learning obtained in the field.

Recommended for

We believe everyone can be a birder! And with the advances in technology, almost anyone can contribute to the field of Ornithology through citizen science projects. So, this course is open to everyone. The course strives to give students a sense of wonder about birds; to immerse them in beautiful landscapes; give them a flavour of the life of an ornithologist; and hopefully equip them for a lifetime of enjoyment watching birds.

Deliverables

Presentations and picture gallery of rare birds and their habitats.

Credits

2

Maximum Strength

30



Manish Datt is an Assistant Professor at the Biological and Life Sciences division at Ahmedabad University. Manish's expertise spans across biological and computational sciences and he actively engages in endeavours that expand the outreach of basic sciences.

Outline

Diabetes is a global challenge. It not only affects individuals but is also a huge economic burden. India is the diabetes capital of the world with nearly 50 million people suffering from this disease. Further, Gujarat has the highest number of diabetics in the country. The course would introduce the fundamentals of diabetes, its classification and various complications that result because of it. Available treatment options to control diabetes will be explored and important aspects of diabetes management would be assessed. The course will enable students to apply the learning about diabetes to maintain a healthy lifestyle and an opportunity to contextualise and apply their learning by engaging in a real life project.

Methodology

Project, Flipped classroom sessions, lectures, and group discussions

Recommended for

This course will be of interest to students who are interested in learning interdisciplinary concepts for developing innovative solutions for challenging problems in context of diabetes. Students should have the ability to think critically and be effective team players.

Deliverables

An online interactive interface to access the risk of diabetes based on basic health parameters and/or a working prototype of a glucometer.

Clues Never Lie: 'Every Contact Leaves Traces' Philosophy to Solve Crime

ISP17M008

Credits	Maximum Strength	Course Fee
2	20	₹ 2000 (includes Crime Scene Kits)



Ritesh Kumar Shukla is working as an Assistant Professor at the Division of Biological and Life Sciences, School of Arts and Sciences, Ahmedabad University. He completed his Masters in Forensic Science and obtained a Doctorate in Toxicology. He is a trained fingerprint expert from DFS Forensic Science Laboratory, Gandhinagar and also has teaching experience in the forensic field. His research interest is focused on Forensic Biotechnology and Food Forensics.

Outline

“Every contact leaves traces and clues never lie” – the course is designed around this phrase. Students will learn to recognise various types of clues (fingerprint, forged signature, blood stains, etc.) and their link to the crime scene. This course will make students aware of the role of Forensic Science and its positive impact on our society.

Methodology

Project/Problem based teaching and learning.

Recommended for

Students who like solving mysteries and are fascinated by the science behind forensics.

Deliverables

In the expo, students of this course will show their own hands-on results through a poster presentation and exhibit a model of crime scene with different clues.

Credits	Maximum Strength
2	20



Dinesh Korjan has been pursuing systems thinking in Design both in projects and in the classroom, in an effort to find design solutions for real world problems. Trained in Product Design from the National Institute of Design, Ahmedabad, he is the co-founder of Studio Korjan, one of the pioneering product design practices in India. He actively engages in academics and teaches at many leading design schools including Indian Institute of Technology (IIT) Bombay, National Institute of Design (NID) Ahmedabad, CEPT University Ahmedabad, Social Design programme at Ambedkar University Delhi, Srishti School of Art Design and Technology Bangalore, NIFT Gandhinagar.

Outline

The best way to predict the future is to create it! Whether we like it or not, each one of us is changing the world through our actions or inactions for better or worse. But are we making things better or worse? What if we could anticipate the consequences and act accordingly? This course is about increasing the size of the canvas and navigating complexity to bring about meaningful change.

Methodology

Experiential and collaborative learning through short assignments/lectures/discussions/doing and making activities. Groups will work on selected everyday problems to find design solutions.

Recommended for

Anyone with the mindset of/aspiration to be a leader/change agent/collaborator.

Deliverables

Prototype(s) of solution to a chosen problem.

Credits

Maximum Strength

2

20



Sanjay Chaudhary is a Professor and Associate Dean at School of Engineering and Applied Science, Ahmedabad University. In 2009 he was awarded the 2nd prize by the Gujarat Sahitya Academy for his book “Girnar” under the Essays and Travelogue category.



Kirit Dhoodhat is a retired IAS officer and winner of several awards in literature like Gujarat Sahitya Akademi award, Gujarat Sahitya Parishad award etc.



Harshad Trivedi has written poems, short stories and novels. He was the editor of 'Shabda Shrushti' magazine published by Gujarat Sahitya Academy.



Ramesh Dave was the Director of K L Swadhyay Mandir, Gujarati Sahitya Parishad. He has written novels, short stories, and several edited volumes. He was the editor of 'Parab', a magazine published by Gujarati Sahitya Parishad.



Chirag Trivedi is a faculty in Communication area at Amrut Mody School of Management, Ahmedabad University. His interests include creative writing and translation of literary texts.

Outline

This course will enable students to learn and develop the ability to read and write various forms of literature, for example- short stories, novels, poems and plays. By the end of the course, student will be able to write short stories, essays, and play scripts, develop the ability to appreciate and criticise creative articles written by other participants and improve their understanding of various forms of Gujarati, Hindi and English literature.

Methodology

Talks, discussions, reading and writing sessions. Well known Gujarati and Hindi writers will conduct sessions during the course.

Recommended for

Students who are interested in becoming short story writers, poets and play wrights.

Deliverables

Short story, poem, chapter of a novel, part of a play.

Credits

2

Maximum Strength

25



Sudhir Kumar Pandey is a faculty at Amrut Mody School of Management in the Communication area. He specialises in cultural studies and communication and offers courses such as City as Text and Analytical Writing.

Outline

Urban mobility and transportation in Indian cities is a pressing concern. Traffic jam and pollution are general characteristics of Indian cities and the only solution to this problem is a non-polluting public transport system. Of all the available options, cycling seems to be the most sustainable medium. In fact, Office of Registrar General of India, in its recent survey, believes that over a fifth of non-agricultural workers in India commute to work on foot or by cycle. However, planners in Indian cities are struggling to provide space for pedestrians and cyclists. Based on this premise, this course will identify and create cycle paths in areas where urban mobility is an immediate concern. This will involve cycling tour of the city to identify such places and working on those areas on Openstreet maps, creating a two kms cycle path.

Methodology

Digital Mapping and Cycling.

Recommended for

Anyone who can ride a bicycle.

Deliverables

At the end of the course, participants will create a cycle path in the chosen area. A cycle map of the area will be created on Openstreet software.

Credits

Maximum Strength

2

20



Poulomi Das is a consultant for Museums and Heritage Spaces with experience in interpretation, curation, collection management and research. She is also a Faculty for History, Cultural Theory and Integrative Seminar courses with Indian School of Design and Innovation Parsons, Mumbai. Projects: -Hiremath Art and Heritage Foundation, Mumbai Buddha Smriti Park and Bihar Museum projects at Patna, Bihar Palanpur City Museum, Gujarat Sewa, Gujarat Dr Bhau Daji Lad Mumbai City Museum, Mumbai National Museum, New Delhi, and Swaraj Bhawan Museum, Allahabad Victoria Memorial Hall, Kolkata India first Monetary Museum for RBI, Mumbai. She has been a Nehru Trust Fellow to the British Museum and the Victoria and Albert Museum, London, 2015 and 2006 and a Leadership Program Fellow, Department of State, Bureau of Educational and Cultural Affairs, USA, 2010.

Outline

What is a museum? Why do we visit them? How are they relevant to us in today's fast changing digital world? Do you have a dream museum? Who is it for? Would you like to translate that dream into reality and design your own museum? So, lets begin then. The students will learn about types of museums, their role in history, heritage, art, culture, oral histories, documentation, research, analysis, and interpret and share their findings to different communities through the museum of their dreams they want to design.

Methodology

This is an interactive, discussion, classroom, field visit and survey based course - Through 10 days students will learn about museums, their history, evolution and connection to the communities they are meant to represent - The several processes, challenges and solutions that make a museum project possible will be highlighted. They will be taught to identify the communities these museums address and understand what visitor profile is. They will learn to understand the visitors they want for the museum of their dreams. This will help them plan for their own dream museum project - The different aspects of a museum will be discussed with examples from around the world, today and of the future - Finally, a museum of their dreams will be attempted by the students.

Recommended for

Students curious to discover stories of their communities and heritage, eager to share this knowledge on a global platform using digital media, and understanding the true essence of design could enhance their interests through this highly interactive and field work based course.

Deliverables

Different stages of research, ideas, concepts, research, design processes and designs for a museum of their dreams.

Credits	Maximum Strength
2	30



Anand Saboo is an Architect and holds a Masters in Strategic Design Management from NID, Ahmedabad. He has worked for nearly 12 years in various areas of Architecture Design, Urban Design, Design Strategy, Sustainable Design, Product Design and Design Management.



Aditya Bharadwaj is a Mechanical Engineer and holds a Masters in Product Design from NID, Ahmedabad. He has worked for nearly 10 years in various areas of design, ranging from product design to graphic design to user-experience design. He approaches design as an applied science perspective and tries to bring the understanding of various disciplines like physics, economics, biology, evolutionary sciences, etc. in design to make it more fun and impactful.

Outline

Design allows beneficial change to happen on its own. Design thinking allows design to happen on its own. But did you know that design thinking is connected to the jungle? Or that what you wear, eat, drink affects design thinking? Or for that matter, design thinking happens not only through the brain, but also the heart and the gut? Or perhaps that design thinking may have been different if we were not carbon-based life forms? This course is designed to show you what real design thinking is – a deeply rooted ability we already have, which has connections to our evolutionary past, modern and ancient science and a fascinating array of everyday things which we take for granted. It is designed to help you master skills sets which can make you a real-life Sherlock Holmes, to understand hidden contexts, and make any and all situations better. Think about it - Design is not an activity limited to products, or logos or graphic design. Why can't it be applied to, say, balance sheets, medicines, measuring tools, business strategies or even languages?

Methodology

The course will be a combination of discussions, presentations and assignments. Reading materials will be recommended from time to time, which students will be expected to read. Outdoor assignments will also be a part of this course, primarily where students will learn to sharpen their observation and inference skills.

Recommended for

Students who are focused, wish to learn something new and challenge their pre-existing thought processes and actively experiment during the course.

Deliverables

Final course assignment (along with other smaller ones) - students will redesign existing systems, which are traditionally deemed non-economical, using a new understanding of economics and demonstrate how they have become better.

Credits	Maximum Strength	Course Fee
2	25	₹ 2500 (including certificates)



Prem Sagar is a Visiting Faculty at Pearl Academy and holds a BE in Instrumentation and Control Engineering from NSIT (Delhi University). He has always been interested in solving problems by using hardware technologies. He is a full-time Maker and Manager and is the founder of Gurugram's first Makerspace, Banaao- A Makers Playground, a multi-disciplinary innovation lab for people of all ages. His keen interest lies in democratising access to technology.

Outline

Opening multiple avenues of exploration, 3D printing helps you realize all your ideas into tangible products. 3D printing, also known as additive manufacturing, turns digital 3D models into solid objects by building them in layers. It is one of the most amazing rapid prototyping techniques ever. 3D printing has a lot of multi-disciplinary applications in the fields of Education, Design, Architecture, Manufacturing, etc. This workshop is meant for students, hobbyists, designers, engineers and every creative person who hasn't yet explored 3D printing.

Methodology

The course will follow a complete hands-on approach where students will learn to take their ideas from thought to digital design and then a physical prototyping. Students will be learning design software to bring their ideas to life and learn how-to use a 3D printer. During the course, we will have multiple team-based projects, enabling peer-to-peer learning and collaboration.

Recommended for

Those who want to convert their ideas into real prototypes and be creators in a true sense should attend this course. Just carry your imagination (and laptops).

Deliverables

Student prototypes based on their ideas.

Credits	Maximum Strength	Course Fee
2	40	₹ 4000 (including certificates)



Ezenith Education This course will be led by experts from Ezenith Education known for their specialisation in the functioning of the drone industry.

Outline

This course aims to make students well trained in understanding elements involved in drone building and functioning. The course also aims to get students to participate in the training sessions and get a better understanding of industrial expectations and real time industrial experience.

Methodology

Each programme comprises practical and technical know how, supported with theoretical knowledge for a sharper understanding. Experts from the industry will be visiting to give participating students an insight of industrial functionalities by providing hands-on experience through their expertise. The design of the programme is such that it keeps participating students fully involved, keeping in mind the interests and utility of the product from a career building perspective. There isn't a dull moment for them during the course.

Recommended for

Students interested in creating their own drones and learning about the technology behind it. No prior knowledge of Mechanical or Electronics Engineering is necessary.

Deliverables

The participating students will learn to construct their own drones. By the end of the course students will be well versed in creating a drone by themselves.

Credits	Maximum Strength	Course Fee
2	70 (two batches)	₹ 2500 (including certificates)



Pankaj Saxena is a product of the Film and Television Institute of India (FTII) Pune. In a career spanning three decades, he has held senior management positions including those of Vice President at Discovery Channel and Head of Programming at BBC.

Besides making his own films and consulting major production houses, Pankaj teaches film and television at prestigious media institutes such as IP University, KIIT University and Asian College of Journalism. Presently, Pankaj is busy travelling across the country conducting Film Appreciation Courses as a part of Skilling Indian in Film and Television (SKIFT) initiative of the Film and Television Institute.



Munish Bhardwaj graduated from the Film and Television Institute of India in 1993. He has worked on films of directors like Rajat Kapoor, Kumar Shahani, Mani Kaul and Sashi Kumar. Munish was the Executive Producer of the critically acclaimed 2013 Rajat Kapoor directed 'Ankhon Dekhi'. He has also written for TV series such as 'Bhanwar', 'Rajdhani' and 'Hadsa' in the past.

Munish has been involved with Theatre as a Director, Actor and Producer for over 25 years. Moh Maya Money' is his first feature film as a Writer and Director.

Outline

Film Appreciation Course (FAC) is a condensed version of the 4 week FAC that has been running at the FTII, Pune for the last half a century. This course has been the single most significant contributor to the knowledge, understanding, growth and development of the cinema culture in India. This course is designed to achieve the same objectives in a shorter length of time by exposing the students to a selection of constituents of the long course in a manner that provides them with a glimpse of all the aspects of the long course and fires their passion to continue the explorations on their own long after the short course is completed.

Methodology

The Short FAC imparts knowledge through a combination of teaching tools and methodologies. This includes classroom lectures, film screenings: full film and excerpts, group discussions, guided analysis and a lot of private viewing and writing work.

Recommended for

Anyone above 18 years, 10+2 passed, with working knowledge of English and interest in cinema can take the course.

Deliverables

Reviews of film shown in class; review of films suggested for viewing outside the class; reflexive writing on the film viewing experience; writing of film ideas spurred by the course activities.

Credits | Maximum Strength

2

25



Sudebi Thakurata is a designer of learning. She is a storyteller, graphic facilitator, published writer, critical instructional designer, reflective, creative documenter and a passionate singer. Poetry, folklore, curation, critical media literacy, storytelling, philosophy, science, bookmaking, mapping, interacting with people, brainstorming, traveling and asking questions are her passions. She works as a Faculty member at Srishti Institute of Art, Design and Technology, with both students in the college as well as school students and teachers for their professional development. Currently she is pursuing a Masters in Education from the University of Northampton, UK.

Outline

We all know books have stories or stories are written inside books. How about creating ones own books. How can a story become a book, or a book become a story? Can they have multiple layers, forms, shapes and sizes? Can books be opened up from multiple sides, than just left to right? What if documentation can be storytelling where we take pride in journaling our journeys. By creating opportunities to think through various modes, using visual thinking, design thinking and systems thinking, and therefore by introducing various methods of questioning, listening, inter-connecting and documenting, in order to draw attention to the mechanisms by which people construct their understanding. The course will marry thinking with doing and focus on skills like observation, documentation and imagination and making as a way of thinking.

Methodology

The main principles adopted will be "Context Based Design-Activity Centered Design and Design by Understanding". The process will entail making a journal, where the journey can be mapped. This will be done by teaching various book making, paper folding, visual thinking, design synectics and documentation techniques and using design thinking to design storyboarding and storytelling.

Recommended for

If one wants to learn how to think, talk, see, visualise, present, tell stories, design systems, turn something mundane and boring into an interesting narrative and for the longest time feel proud of what they did, this course is surely for them.

Deliverables

Hand-made journals for documentation and reflection. A few pieces of reflective writing showing the processes. A final visual storytelling form of the processes: folded journals, diaries which will unfold your journeys. The pages of these coming alive through a mode of blended storytelling consisting of text, image, sounds, movement and more.

Credits | **Maximum Strength**

2 | 30



Purvi Vyas is an organic farmer and has a Masters in Environmental Management from the University of Western Sydney. She is associated with various NGOs working on sustainable development. She lives on her organic farm in Matar, 45 kilometers from Ahmedabad, which is 80 per cent self sustained. She teaches everything about food – the food system, the politics behind our food choices defined by the market and impact of these choices on the earth at universities such as PDPU, Gandhinagar and NID. Currently, Purvi is working towards transforming several villages with over 2,000 farmers on sustainable farming models. These farmers are connected to the consumers directly through food melas organised by her and networks setup by NGOs like Cohesion.

Outline

Have you ever considered how many aspects of food production and consumption affect your health and the natural environment? Every aspect needs to be considered in attaining the future goal to produce enough food for the growing population while at the same time preserving our planet. Its as difficult as solving a Rubik's cube; changing one aspect may affect the environment in a major way. The programme addresses the complexities of our food system and the future of the food movement by exploring the intersections between food and culture, science, agriculture, health, and economics. It will help participants in the course to understand the structure of the food system and their personal role within it.

Methodology

Each thematic course will be taught through classroom Socratic discussions, movie screening, case study analysis, role-play, debates and other such activities; it will include hands-on experiential learning, research and a field trip. The course's aim is that each student develop food-systems intelligence: learns to be skeptical in a skillful way, learning to assess if a claim or label is true and complete, understanding the motivations of each actor in the food system.

Recommended for

Everyone who eats!! People who want to take control of their health and wellness and want to understand the impact of their choices on their personal health, health of the society and the environment.

Deliverables

Students will identify a food system problem and design an intervention to address it. The students will develop a community vegetable garden as an integral part of the programme. The garden will foster and build bridges between the university and larger community. It will help to create a space where students can participate in planting, growing, and harvesting food.

ISP 2016

A Throwback



World of Hindustani Art Music

Hindustani art music is a unique form of music that has immense scope for individual creative expression. It is a system of music in which the performer creates music spontaneously and constantly challenges himself to seek new beauty and to search for his own personal expression, instead of simply singing something composed by someone else.



City as a Text

In the human history city has existed both as an idea and a place. This course, in particular, explored these two aspects of city (idea and place).





Mud. Sugar. Bake. Magic

This course was about learning to build different kinds of chulhas using local materials. In the process students also learned about sustainability, degrowth, environmental ethics, decentralization, the slow movement, democracy, mindfulness, development, equity and green microeconomics.



Ctrl+ Alt+ Design

This course introduced students to original scriptures like THE UPANISHAD's , THE VEDA's and used references from them to teach DESIGN and its tools.

Credits	Maximum Strength
2	20



Sudebi Thakurata is a designer of learning. She is a storyteller, graphic facilitator, published writer, critical instructional designer, reflective practitioner, creative documenter and a passionate singer. Poetry, folklore, curation, critical media literacy, storytelling, philosophy, science, bookmaking, mapping, interacting with people, brainstorming, traveling and asking questions are her passions. She works as a Faculty member at Srishti Institute of Art, Design and Technology, with both students in the college as well as school students and teachers for their professional development. Currently she is pursuing a Masters in Education from the University of Northampton, UK.



Probal Banerjee is an Engineer, an alumnus of IIM Calcutta and an ASQ Certified Six Sigma Black Belt. He is currently pursuing a MS in Business Analytics from BITS Pilani.

Outline

How can simple games represent complex, social-ecological or organisational systems? At a time when videogames are everywhere, we still cherish the memories of the board games or traditional games that we played with friends and family members. Interestingly, most of these games have values and significance beyond just fun. Through the process of designing a game from ideas to artefacts, the students will learn how to imagine, create, explore, think, question, find patterns, and navigate between the parts and the whole.

Methodology

The course will be taught by allowing students to play multiple kinds of games, from simulations, which are used to understand concepts of economics or environment, to traditional board games that often have a hidden life skill embedded in them. They will learn how to unpack and decode these experiences with empathy, perspectives and emotions along with design principles used to construct them.

Recommended for

If one wants to learn how to think, talk, see, visualise, present, tell stories, design systems, turn something mundane and boring into an interesting narrative, this course is for them.

Deliverables

Different kinds of games and simulations with outcomes like toolbox, picture cards, role play cards, instructional manual, boards, workbooks, board games, game accessories along with the students acting as facilitators for people to play games.

Credits | **Maximum Strength**

2

20



Subhash Rajpurohit is an Assistant Professor at the Division of Biological and Life Sciences, Ahmedabad University. He obtained his MSc In Zoology from Mohan Lal Sukhadia University, Udaipur and a PhD in Bioscience from Maharshi Dayanand University, Rohtak.

Outline

Have you ever thought why do we perform our best at a certain temperature? 'Hot and Cold: Building a 3-D Thermal Gradient' is a kind of course which has been woven around a fundamental abiotic parameter, which is temperature. We regularly face temperature challenges for example seasonal temperature variations, fever, etc. Temperature shapes every aspect of life on this planet. The natural habitats are heterogeneous and expose organisms to varying thermal conditions. But nature has given the organisms the ability to sense their surroundings and avoid harmful temperatures. In this course students will explore all these interesting temperature and life interactions.

Methodology

The course is designed in a way that students learn by doing. It's a lab-based course, where students propose a design, make a list of requirements, arrange required parts, assemble it, test and calibrate it, and finally, run some actual samples through it. Simultaneously, the instructor will provide a theoretical background of the subject.

Recommended for

Anyone interested in apparatus design and building and has some basic understanding of temperature can apply.

Deliverables

An actual thermal gradient apparatus.

Credits

Maximum Strength

2

25



Dhaval Shah considers himself a creative systems designer with a right mix of analytical reasoning, critical design thinking and business management skills. He is the founder of Abir, a human-centered business design consultancy based in Ahmedabad. He holds a Masters in Computer Science from University of Southern California, Los Angeles and MBA in Design Strategy from California College of the Arts, San Francisco which make him uniquely qualified to understand technology, business, management and design.

Outline

No matter what career you choose to pursue, it will involve solving problems for someone and your solution will be as good as your understanding of the problem. The course will cover the fundamentals of people-centric design thinking methodology. It will enable you to uncover problems worth solving, empathise with the people you wish to solve it for, unleash your inner creativity and innovate on solutions that are truly desired by people. This ten day long hands-on course, based on the principles of learn-by-doing, will provide you with a toolkit to be a better and creative problem-solver.

Methodology

The course is designed to allow for learning from the instructor as much as each other. The class will be divided into teams of no more than five persons each working to solve a challenge using design thinking methodology. Teams will present their findings/learnings/progress each day with the rest of the class, allowing for a cross-pollination of ideas and feedback. The course will end with a final presentation of the solution (s) to be judged by a jury of experts.

Recommended for

If you wish to increase your confidence in finding creative solutions, then this course is for you – it doesn't matter what discipline you are enrolled in - because what you will learn will be equally applicable in your personal life as much as your professional career.

Deliverables

Each team of five students will work towards a final solution for their chosen challenge. As part of their final presentations each team will be required to design prototypes of their solution and share how they validated it with customers. The prototypes, along with photo-video evidence of their validation with customers will be part of the end-of-ISP expo.

Credits	Maximum Strength
2	15



Sara Hendren is an artist, design researcher, and writer based in Cambridge, Massachusetts. Her work includes social design and engineering projects, graphic arts, and mixed media collaborations that engage technology and the human body. At Olin College, she is an Artist, Designer, and Researcher in Residence, where she is Principal Investigator on a three-year initiative to bring arts experiences to engineering students and faculty, funded by the Mellon Foundation. Her work has been exhibited in the US and abroad and is held in the permanent collection at the Museum of Modern Art.

Outline

This course will give a brief introduction and overview of disability studies in the global context: rights, identity, history, advocacy and more. What does this mean for designers, engineers, and other makers? It will also entail a series of discussions about how technology proceeds from values and how it also shapes values and meetings with local advocacy groups and self-advocates to learn about disability in Ahmedabad as well as Prototypes and proposals for design collaborations or interventions around disability and wearables, architecture, or planning for the future of Ahmedabad.

Methodology

Media and readings, discussions, on-site off-campus meetings, prototyping and studio sessions.

Recommended for

This course is a true investigation of the human body in all its forms, and a deep exploration of all the gear that is made for people living with disability: products, furniture, building, city streets, and more. The class will visit local design organisations who are thinking about atypical bodies and minds and ask: what is the role of design, engineering, artmaking, or enterprise in making a more inclusive world?

Deliverables

Students will contribute proposals and looks-like prototypes, in 2D and 3D, for future design products, environments, or networked services that will alleviate barriers for people with disabilities, or showcase overlooked abilities, or create critical design questions in public spaces about disability politics.

Credits	Maximum Strength
2	20



Neelima Hasija has a degree in painting and pottery from MSU, Vadodara after which she joined NID, Ahmedabad to pursue higher studies in Ceramic Design in 1995.. With 20 years of professional practice and design teaching, her interests span form studies, research in traditional crafts and culture and design for development.

Outline

Clay is one of the earliest materials mankind used for its creative expression and applied it meaningfully to functional contexts. This course will provide an exciting platform to the participants to engage themselves with Terracotta clay and explore variety of forms and surface finishes. Besides, students will also be given an exposure of the world of ceramics, its characteristics and properties in the man-made world. The process of exploring and making will also encourage students to follow an organised approach to develop their ideas into a tangible outcome.

Methodology

Hands-on, minds-on work with the medium, demonstration and presentation by the instructor, individual assignments aligned to group assignment and students' presentation.

Recommended for

Students who are interested in learning the context of material clay; from origins to purpose. Also for those who are eager to explore the characteristics and properties of the materials and articulate it through a logical approach into a tangible outcome.

Deliverables

Terracotta Mural which will be mounted on a wall at Ahmedabad University.

Credits

2

Maximum Strength

24



Siddhartha Saxena is a faculty in Management area and network theory is one of his primary areas of research. In his free time he likes to watch movies and read books, which have also inspired the course.



Rushi Pandya is a faculty in the Entrepreneurship area with a focus on network theory as one of his primary areas of research. In his free time he likes to explore the city, take photographs and work for social causes related to children.

Outline

The Matrix trilogy, the Harry Potter series, the Game of Thrones series, the Lord of the Rings are some of the most successful literature and motion picture works. Learning through unconventional sources like movies, fiction literature and TV series increases engagement and involvement. This course is based on the similar experiment of teaching with an objective to introduce ego-networks and behavioural dynamics to participants. The inclusion of alternative study material aims at multiple learning outcomes like strong network interactions among different characters and lot of strategy, game theory comes into the picture to look at outcomes. It also helps in understanding patterns and nature of interactions. Students will understand how network theory applies in not only fictional and practical scenarios, but also in current dynamics organisations.

Methodology

Students will undergo basic training of 1) Network theory tools (Gephi, nodeXL) 2) Thematic analysis (basic level) 3) Ego-networks and Interactions 4) Behavioural Dynamics and Game theory (Conceptual understanding)

Recommended for

Those ready to learn by doing.

Deliverables

1. Ego-Network diagrams of various fiction literature, movies, and TV/web series.
2. Network diagrams of one social application interaction.
3. Games indicating innovation and strategy.
4. Behaviour structures and thematic analysis.

Credits	Maximum Strength
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2	25
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Krishna Miyapuram is an Assistant Professor of Cognitive Science and Computer Science at IIT Gandhinagar. He was awarded his PhD in Cognitive Neuroscience from University of Cambridge, UK and has worked at Unilever R&D, Netherlands, and University of Trento, Italy. He is an expert in Brain Imaging with 18 years of research experience. His interests include learning, decision making, neuroinformatics, and road safety.

Outline

This course is mainly about the interdisciplinary field encompassing neuroscience, psychology, economics, and marketing. More specifically, the course will focus on how cognitive psychology connects with consumer decision making. We will see how methods can help in product design and innovation as opposed to traditional marketing research. The course will include basic experimental methods used in cognitive science, basic theories from Behavioural Economics, and readings of brain imaging articles in Neuromarketing. The practical component will be complementary in nature by ideation of measuring consumer feelings or emotions.

Methodology

Theory from cognitive psychology, Behavioural Economics, Neuroeconomics, experimental techniques will be taught in lectures. Practical part will be projects related to creating emotion database and predicting consumers emotions using a webcam.

Recommended for

Ever wondered why we love chocolate or ice cream? what makes us like what we like? how we make everyday decisions ranging from career choices to supermarket purchases? if you are curious to know any of the answers this course is for you. Students from a variety of backgrounds interested in economics, finance, psychology, neuroscience, marketing, and computation can take this course.

Deliverables

Practical part will be projects related to creating emotion database and predicting consumers emotions using a webcam.

Credits	Maximum Strength
2	25



Aditi Deo is an ethnomusicologist with academic interests in the sonic and musical forms of the Indian subcontinent from the points of view of pedagogy, technologies and heritage. She has an undergraduate degree in Architecture from Pune University and a PhD in Ethnomusicology from Indiana University Bloomington. She has worked at the University of Oxford and IISER Pune, and will join as Assistant Professor at the Division of Humanities and Languages in December 2017.



John Mathew is an Associate Professor at the Indian Institute of Science Education and Research (IISER Pune). He holds doctorates in Ecological Sciences (Old Dominion University) and the History of Science (Harvard University) as well as a Masters in Medical Anthropology from Harvard. Previously, he taught at Harvard, the Massachusetts Institute of Technology, the University of Massachusetts (Boston campus), Tufts University and Duke University, and was briefly a faculty associate at the University of Pennsylvania before returning to India in 2014.

Outline

The course will explore the concept of 'sound' from a variety of interdisciplinary perspectives: as a physical and biological phenomenon; as part of human and social experiences; and as an object of technological manipulation. We will delve into ideas from varied disciplines including: ecology/biology; physics; anthropology; film and theatre; history; linguistics; music; and psychology.

Methodology

The course methodology will include classroom discussions, short readings (academic and popular), listening and viewing sessions, and field recording.

Recommended for

Students with interest in sound and music, curiosity about diverse disciplines, and a willingness to engage with the class material will enjoy the course.

Deliverables

As part of the course, we will make recordings that demonstrate/utilise key concepts discussed in class. These recordings along with accompanying write-ups will be the tangible outcome of the course.

Credits

2

Maximum Strength

25



Shyam Parekh is a senior journalist with an experience of over two decades of writing and editing in English print media. He is the Director of Dew Media School and former Resident Editor of DNA, Ahmedabad, since its launch in Ahmedabad in 2007. This followed a decade-long stint in Times of India, specialising in environmental reporting and disaster chasing, in addition to extensive election coverages.



Jumana Shah, a career journalist, is the City Editor with Ahmedabad Mirror. She has also worked with DNA for 12 years in almost all areas, specialising in politics and environment. She has written extensively about environmental and wildlife concerns of the country, leading to some detrimental industrial projects to be called off. She has also been a political correspondent in Gujarat since 2005.

Outline

To explain the significance of mainstream media (newspapers, TV and digital) in the context of social media. Information, often unverified and completely false, is circulated with confidence; accepted and digested as the complete truth. It is in this environment more than ever that the role of mainstream unbiased media is pivotal for a robust democracy. The course will give an understanding of the difference between social media, mass media and journalism. It will also explain how news organisations function; the basic tenets of journalism and most importantly drive home the significance of why journalism is called the 'fourth estate of democracy'.

Methodology

Lectures, field exercises, group discussions, team activities. These assignments would most likely be interviews / interactions with people from diverse backgrounds. Students will be given a brief of the exact objective of every interaction and each student will be expected to do a piece on it.

Recommended for

The course can be taken by anyone who wants a basic understanding of how the media works. The student will get to experience and understand what it feels to be a journalist, the excitement, the challenges, the analysis and the hard work that a journalist has to go through to bring you news.

Deliverables

Students will be able to write/put together a piece on any subject / event with the basic 5Ws and H in place. Some stories will be displayed. Photo journalism is an aspect of the course and photos with detailed stories around them will be exhibited.

Credits	Maximum Strength
2	25



Aparajith Ramnath is an Assistant Professor at Ahmedabad University, where he is a part of the School of Arts and Sciences as well as the Amrut Mody School of Management. He is a Historian of Science, Technology and Business. His first book, *The Birth of an Indian Profession* (a history of engineers in pre-Independence India) was published by Oxford University Press in 2017. He also writes a column on the history of science and technology for *The Wire*.



Anupam Arunachalam is a writer, illustrator and cartoonist. He has worked with *Tinkle Magazine*, *Amar Chitra Katha*, *Mint*, *Forbes Life*, *Kokaachi*, *Doctors without Borders*, and *Johnson and Johnson*. His latest book, *“Tooth and Nail, Fur and Scale”* a collection of illustrated short stories about fantastic creatures from Indian myth and legend, was published by Penguin Random House in 2017.

Outline

How was oxygen discovered? Is it correct to say it was discovered? What is the origin of the word science? Exploring the history of science enables to understand better the theories and machines that modern life depends on. In this course, students will learn to think historically about science, and communicate their understanding in a simple manner. Sequential art has proven itself a very effective means of communicating complex ideas, as evidenced by graphic narratives. These are all superbly illustrated, but amazing drawing skills are not essential to making great sequential art. Think of XKCD, the wildly successful comic strip on romance, sarcasm, math and language, which consists almost entirely of stick figures. With imagination and practice, anyone can learn how to tell a story clearly through pictures and words.

Methodology

A few introductory sessions on the basics of historical thinking and sketching, followed by a team project where students will choose an episode or theme from the history of science, read up on the subject, and explain through sequential art.

Recommended for

Students with an interest in exploring a new medium (sequential art) as a way to understand and communicate scientific and historical ideas. If you like reading intensively, thinking analytically, and spending long hours to express yourself artistically, this will be a fun and useful course for you.

Deliverables

Students will do sequential art, which includes comic strips, illustrated books, etc. This will be combined into a booklet and a slideshow.

Credits

2

Maximum Strength

25



Srijan Deshpande is a performer, teacher and student of music. He is an adjunct faculty at Ahmedabad University and also works to preserve and disseminate rare forms of music at two important archives.

Outline

Musical instrument making is an inherently interdisciplinary field that brings together knowledge from Music, Engineering, Science, and even Electronic Audio technology. This makes it an excellent and non-threatening entry point into all of the above disciplines. The Musical Instrument making course will begin by introducing to a variety of commonly used materials and challenging them to create musical instruments out of these. This will lead to questions about what phenomena such as music and sound really are, and how they can be made. In the process, they will work in workshop using woodworking and other equipment. In the process, they will learn about various musical, acoustical and engineering phenomena.

Methodology

This will be a hands-on course where knowledge will be generated (through practical experience, discussion, peer-evaluation and research assignments). Students will be divided into groups such that each group would consist of students who bring in skills that are complementary. Emphasis will be laid on string, wind, percussion, and possibly electronic instruments. Since instrument building is a time consuming task, most amount of time will be devoted to actually crafting their instruments.

Recommended for

If you ears crave music, your mind craves numbers and your hands crave work, this course is for you!

Deliverables

Musical instruments of the students' own design and construction.

Credits | **Maximum Strength**

2 | 25



Abrar Ali Saiyed earned his Fellowship in Management from Indian Institute of Management, Ahmedabad (IIMA). He specialises in entrepreneurship and international business. He has eight years of teaching experience in reputed government and private business schools and education institutes in Gujarat. He has taught at Center for Environment and Planning Technology, Nirma Institute of Management, Entrepreneurship Development Institute, Pandit Deendayal Petroleum University, B K School of Business Management (Gujarat University and Ahmedabad Management Association).

Outline

Sociology of Bazaars will investigate the intersection of 'market economy' and socio-cultural set-up of 'old city markets in Ahmedabad. The main emphasis will be on the understanding of old city markets as distinct cultural, social and economic spaces.

Methodology

Project based method will be used in this course with a mix of field visits and classroom sessions. Students will discuss themes and prepare themselves for the field visits, working on research questions and then discuss their observations, experiences, interactions with other fellow classmates and instructor. They will jointly develop working hypothesis and inferences which will be tested and validated in their next field visits.

Recommended for

Students who are interested in exploring, studying, and knowing Bazaars. Including students who like to study not only trade but sociology and anthropology.

Deliverables

At the end of the course students will be able to understand:

1. The socio-economic pattern of old city and markets.
2. The dynamics of the unorganised sector and status of informal economy in India.
3. The old city markets as distinct cultural urban spaces. The changes and continuities of urban space.

Credits	Maximum Strength	Course Fee
2	35	₹ 1500



Sourabh Phadke is a school teacher and an architect (the former by choice, the latter by chance). He works with children on matters of exceeding importance including mud balls, the birds and the bees (literally), garbage, pee-poo and other stuff inside and around us. He is also known to build houses of all things natural and junk. Sourabh is the author and illustrator for a few minor publications which although best avoided can be found at www.soarhub.in

Outline

The course shall span the space between storytelling, theater, puppetry and activism. The intent is to help create a safe space for dialogue with the aid of artistic tools that evoke compassion and joy. Over the course of 10 days students will collectively imagine and create characters that bring an idea to life. This will be done with the assistance of (massive) puppets that we build and operate together.

Methodology

The course will be a democratic affair steered largely by the group. The intent is to allow each participant to contextualise the content to build relevance for themselves while being relevant to the community. The proceedings will be overwhelmingly hands-on, involving long hours of physically constructing large, mobile and fairly complex structures. All of the work will be done in small groups which collaborate further.

Recommended for

Chances are that the course might be a good fit for you, if you: see the world in stories, enjoy making things with your hands, find working in groups nourishing, love theater and performing.

Deliverables

(XL sized) Puppets that will be operated by students, collaboratively.

Credits | **Maximum Strength**

2 | 30



Tana Trivedi is a faculty of Communication at Amrut Mody School of Management. Her areas of interest are Gender Studies, Postcolonial Diaspora Studies and Science Fiction.



Jaina Mehta is a Lecturer with School of Engineering and Applied Sciences. She has an MEng. in Aerospace Engineering from Cornell University and is presently working on a project to devise a system for visually impaired individuals.



Ratnik Gandhi is a computer scientist and an Assistant Professor with School of Engineering and Applied Sciences.

Outlines

Through a selection of texts and visual aids that engage with concepts of Space, Time Travel, Machines and Super-humans, students will be introduced to the genre of Science Fiction as a tool for comprehending the changing landscape of the postmodern world. To cope with the changes in the rapidly globalised world, and understand its complexities, there must be synergy between natural science and human science, to create a sustainable worldview that integrates science, society and culture.

Methodology

The course will be taught using texts, movies and other forms of multimedia expressions, classroom discussions, and through group and individual activities.

Recommended for

Students from diverse disciplines interested in multi and inter-disciplinary approach to understand literature of ideas and science are encouraged to take this course.

Deliverables

Youtube videos, posters, comics, and models created by students during the course.

Credits	Maximum Strength	Course Fee
2	35	₹ 1500 (including certificates)



Prem Sagar is a Visiting Faculty at Pearl Academy and holds a BE in Instrumentation and Control Engineering from NSIT (Delhi University). He has always been interested in solving problems by using hardware technologies. He is a full-time Maker and Manager and is the founder of Gurugram's first Makerspace, Banaao- A Makers Playground, a multi-disciplinary innovation lab for people of all ages. His keen interest lies in democratising access to technology.

Outline

Have you ever wondered how to embed electronics on paper? How to make flexible circuits yourself? Wondering how to brighten up your origami creations or make interactive greeting cards, flyers and everything around you? At the intersection of Art and Technology, a novel piece of technology – ‘Paper Circuits’ enables us to embed electronics anywhere and everywhere into simple things around us and make them interactive. This course is a gateway to learning technology in a fun and engaging way.

Methodology

The course will follow a complete hands-on approach where students will make multiple creations everyday using LEDs , batteries and conductive tape after thoroughly understanding scientific principles involved. We follow design thinking approach, which gives students enough room for exploration, creativity and embracing failures. During the course, we will have multiple team-based projects enabling peer-to-peer learning and collaboration.

Recommended for

This course is for students who want to begin learning and exploring electronics in the most fun and practical way. No prior experience required.

Deliverables

Each student will make multiple physical interactive paper circuits in each class which includes LED Greeting card , Business Card Torchlight, Interactive Door mat, Interactive Flyer, Art and Tech installations.

Credits | **Maximum Strength**

2 | 25



Juhi Sidharth has focused on young women in urban India, examining in particular questions of changes and continuities in gendered identities and practices in a neo-liberal era and the inter-linkages between gender, sexuality and urban poverty. She holds a PhD in Education (2014) and an MPhil in Development Studies from the University of Cambridge and a Masters in Social Work from TISS. Her doctoral research which was jointly funded by the prestigious Cambridge Commonwealth Trust and RECOUP, a research consortium funded by DFID and led by Professor Christopher Colclough (University of Cambridge), was a sociological study located in one of the most neglected and impoverished slum areas of Mumbai. Since February 2016, she has been working as an Assistant Professor at FLAME University, Pune.

Outline

Violence against women is a global phenomenon, though with variations in its form in different places and contexts in different historical periods. In this course we will first consider how violence became a political issue for feminist activists and how it became an object of academic scrutiny. We will then explore some of the differences of opinion it has generated specifically on sexual violence, since this is where the debate has been most heated. Some of the issues we will consider: “the problem of power”, the pleasure-danger dichotomy and women as victims vs. women as active agents/survivors -the politics of race, caste and class.

Methodology

A mix of lectures, discussions and project work, which might include photo essays, digital posters and presentations.

Recommended for

This course is for any student who is interested in gaining an understanding of gender and its links with violence and sexuality. Students who want to become familiar with the disciplines of sociology and gender studies will also find this course beneficial. There is no pre-requisite for the course.

Deliverables

Digital posters and possibly a play.

Credits | **Maximum Strength**

2 | 25



Manav Subodh is the co-founder, 1M1B and Director of International Development at UC Berkeley. Manav has been associated with Berkeley for the last three years. Previously, he was a Senior Fellow and a Garwood Innovation Fellow, at the Haas Scholl of Business at Berkeley. Before his entrepreneur journey, Manav worked in the corporate sector for about 17 years. He has experience in consulting, policy, corporate affairs, government affairs, education, marketing, branding and business development with organisations like Ernst and Young (EY), Intel, Hughes and QAI.



Ritu Singh has more than 10 years of experience in the development sector, managing programmes that focus on the educational eco-system. Prior to joining FICE, she was the National Program Manager at Learning Links Foundation, handling the Intel® Teach Program’s private school initiative. She has also served as the Associate Consultant at ‘Pravah’, a Delhi based NGO working in the area of youth citizenship. Ritu holds a BA (Honours) degree in Psychology from Lady Sri Ram College, University of Delhi and a Master of Arts in Social Work from the Tata Institute of Social Sciences, Mumbai.

Outline

The programme starts with orientation to Smart Cities and United Nations Sustainable Development Goals (SDGs). The curriculum helps students identify challenges, opportunities and narrow down to a specific problem to solve. Young student leaders will be then taken through an ideas development framework where they will come up with ideas for a smart city.

Methodology

A mix of study tours and customer Interviews, mentoring and Business Model Innovation.

Recommended for

Students interested to develop solutions, policies, business models, product or services for smart cities. Also students who are passionate about innovation and want to take the next step into innovation for social impact.

Deliverables

At the end of the programme participants will come up with an actual solution and in some cases will also develop a Minimal Viable Product (MVP) to address a smart city challenge.

Credits	Maximum Strength
2	30



Kuntal Patel is an Assistant Professor at School of Computer Studies, Ahmedabad University. He has published more than 25 research papers at International and National Journals and Conferences. His current research interests include Information Security and ICT tools for enhancing teaching learning processes.



Bipin Mehta has 40+ years of career in the IT field including 17 years in Higher Education in Information Technology.

Outline

This course is aims to enhance cyber security awareness. The course will enable students to understand the importance of security over the Internet. Upon completing this course, student will be able to understand various cyber security problems and their solutions. Students will also understand how malicious code works and prevention mechanisms to protect digital resources against attack.

Methodology

The course will be delivered through classroom discussion, demonstration, case study and laboratory practice sessions.

Recommended for

This course is based on fundamentals of cyber security. This is an interdisciplinary course that will span across disciplines including engineering, management and sciences.

Deliverables

Posters (with live demonstration) during the Expo related to:

- Cyber attacks and its prevention mechanisms
- Performing safe financial transactions over the Internet
- Securing personal data on digital devices
- Detecting fake websites and forged images
- E-mail forensics - detecting source/location of email sender





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