PDP II - Alto University, Finland

As with every batch of Design program, a group of four was put together in the fall of 2015: handpicked by the Project Manager, to form the elite, multi-disciplinary team.

Sachin NP, Prabhat, Kirit Lakhani and Pritam were part of two teams. PDP is an ambitious nine month program executed together with a company partner tackling an actual problem. There are nearly 200 local students, 20 partner companies and remote members from ten different companies including the USA, Sweden, Germany, China and India. Our fellowship of PDP formed and democratically they dubbed themselves as Ennea.

TED Mint - Sweden

A project sponsored by Thule, in collaboration with KTH and other universities

HariPrasad KV, Midhun George and Tathagata Acharya participated in an interdisciplinary workshop, TED Mint, in October 2014. At this workshop, they were all part of different teams, where their task was to design a multipurpose surf pad. The aim of the project was to design a cost effective, appealing, multipurpose pad that could be mounted on a bar of any shape, for global customers to enhance the experience of carrying surf boards/ snow boards on top of their cars.
ME 310 - Stanford University, U.S.A
A collaborative project at Stanford University

In collaboration with Stanford University, PUJ Colombia and Sardar Patel Institute of Dental & Medical Sciences, Lucknow, three students from the design programme; Amit Kundal, MohitTewari and Shivakumar M., under the guidance of Prof. Shantanu Bhattacharya, developed a dental chair at a lower cost. The challenge was to accommodate all the features of a high-end chair in a low-cost chair. This project was recognized as the least expensive operating dental chair in the whole country.

PDP I - Alto University, Finland
A collaborative project at Aalto University

As part of the Product Development Project Course at Aalto University, four students from the design programme participated in it. The projects that began in October 2014, would be completed and presented at the Annual Design Gala at Aalto Design Factory, Helsinki in May 2015. Shweta Nair and Romil Desai are a part of the team project sponsored by Wärtsilä. This project aims at identifying challenges faced by employees during the construction of powerplants and providing a novel solution for it. Aniket Patole and Vimal Anand are a part of the team project sponsored by Innovamo. This project aims at developing innovative mobile solutions and services with NFC, to be used in art galleries to promote art appreciation.
OCHA 2.0
A’ Design Awards, Bronze winner

Avid tea drinkers will tell you that, though the electric kettle has made life simple for many of us, it doesn’t really make a ‘good’ cup of tea. OCHA 2.0 is an electric kettle, which can be controlled via an app and give you that perfect cup of tea. This app can be downloaded on your phone. It can be operated by the user in two different ways. Either with the help of the mobile application that comes along with the product or with the help of the user interface embedded onto the product. The kettle comes with a central display console comprising a display button placed right at the center of the console that helps in selecting the various options in the menu.

MEGAMIND
Honeywell Aerospace Design challenge

Surojit and Pratiti participated as a team named ‘MegaMind’ and bagged second position in Honeywell Aerospace Design Challenge 2016.

They proposed the design of an intelligent system which works when incorporated with an augmented reality device named MegaMind. It decreases the aircraft turnaround time by providing quick assistance to the users and reducing their cognitive load. When assisted by other external devices like drones and wearable technology, its usability can be extended further, like performing visual check, tool collection, etc.
INNOVATION IN TRAVEL

Design Challenge at UXNOW

A UX concept that makes travel more fun and engaging. Kriti Dalmia won the first prize by designing an innovative User Experience Design Concept for UXNOW. The Design Conference, 2014 conducted by Make-MyTrip. The Theme of UXNOW 2014 was 'User Engagement'. The conference provided a multidisciplinary platform for designers, academicians, developers to discuss the challenges and potential solutions for effective interaction with users.

GREAT INDIAN DUSTBIN

India Design ID Challenge 2015

Design to keep check on rapidly increasing plastic waste in the country. His design, 'Swachh' dustbin brings recycling to the public. For every plastic bottle that is fed in, the dustbin dispenses cash based on the grade of the plastic. The design creates motivation for using the dustbin, and also encourages people at the bottom of the pyramid, to take part in the campaign. It won the first prize and will be shared with the Prime Minister’s Office.

PADHAM

Inter IIT Tech Meet, IIT Kharagpur

Design for safer travel in Indian railways, while boarding. Sachin NP and Ashwin Gandhi won the first prize in this design challenge. The project aims to redesign the train bogie staircase for better ergonomics and safety. The height of these platforms are so low that the gap created between them and the train staircase creates a hassle for the passengers to board the train.
DRISHYAM

Goldman Sachs Design Challenge

A mobile application to assist the visually challenged with indoor navigation Drishyam, a project by CharuRathore, Hariprasad KV and Midhun George, under the guidance of Prof. J. Rambhukumar, won the first prize at ABLE Solutions; a Goldman Sachs design challenge. This mobile application works on the simple concept of video-call assistance and step counting coupled with a well-designed interface which makes it easy for a visually challenged person to use it.

BANARASI TOY WORLD

UXNOW 2015 Design Challenge

Prithvi Raj won the first prize at UXNOW 2015 User Experience Design Challenge themed ‘Design for India’ conducted by MakeMyTrip. The concept was to create an unforgettable experience of experiencing an Indian art form to create a memorable bond with the art form and promoting its growth in India. The art form chosen was Banarasi toys and a gamified experience around the art form was created to encourage users to enjoy the platform and create a memorable experience thereby promoting the art form. The conference held at IIT Delhi provided a holistic view on how different designing for India is.

PRASHAMANA

Gandhian Young Technological Innovation Appreciation, 2015

Design of a smart hospital bed Project ‘Prashamana: A Smart Hospital Bed’ by Nikhil Jamdade and ToshibBagde, ensures the privacy of the patient, as well as, the regular monitoring of heart rate and body temperature. The project was awarded the Gandhian Young Technological Innovation Appreciation 2015 at Rashtrapati Bhawan.
IMPRINT
India National Logo Design Competition

Prithvi Raj won the first prize IMPRINT India initiative National Logo design competition and was invited to the Rashtrapati Bhavan for the inauguration of IMPRINT India initiative by the Honorable Prime Minister Narendra Modi and the Honorable President Pranab Mukherjee.

IMPRINT (IMPacting Research Innovation and Technology) is an MH-RD-sponsored Pan-IIT and IISc joint initiative to develop (a) New Education Policy, and (b) Roadmap for Research to solve major engineering and technology challenges in selected domains needed by the country. After the inauguration of the IMPRINT India initiative, there was an Interactive session with Minister of Human Resource Development (MHRD) Smt. Smritirani on the upcoming plans of MHRD and Prithvi Raj was assigned the responsibility to represent IIT Kanpur in further plans of IMPRINT India Initiative. Its the first and only initiative so far which has been done as a part of all the IITs and IISc together.

PROJECT UMBRELLA
Creating awareness about child sexual abuse

This is a project under the User Experience design course, where we as a team of five members worked on the topic “Creating awareness about child sexual abuse”. We developed a workshop kit that will help teachers conduct workshops with kids aged 8-12 years and educate them about this topic. The workshop is a fun and interactive way to teach kids about personal safety and make them aware about different kinds of dangers out there. The workshop has games, cards, animations and is an interactive way which puts emphasis on the kid’s involvement and makes them aware in a way that is understandable to them.

GLOTAP
OzCHI 24 hour international design challenge

Winner of the OzCHI 24 hour international design challenge conducted by the University of Melbourne. The brief was to design for the socially isolated and to try and bring them back into society. Our target user was the elderly and a solution for them were children via an interactive game. The project was done in a team of 4 under the name “Berserk Battalition”
BOOST UP
OzCHI 24 hour international design challenge

Runner Up of the OzCHI 24 hour international design challenge conducted by the University of Melbourne. Brief was to design for the socially isolated people. Our project focuses on children with speech disorders like stuttering and stammering. The project culminated with design of an interactive game installation ‘boost up’ to break the shyness amid stuttering children, and to sensitive average children towards the issue, in a fun manner.

ROGMITRA
Revolutionary device capable of checking haemoglobin

Rahul Kothari designed and developed a revolutionary device capable of checking haemoglobin of a human body. The device is synced with a mobile phone via bluetooth to make connectivity between the two. An android application (app as commonly known) also developed by the student collects the reading of RBCs and helps in calculating haemoglobin count of a human being which would be displayed on the mobile screen.

WIND TURBINE FOR URBAN SPACES
Winner of Make in India Hackathon

Congratulations Ashwin and Saurabh for winning the first place at the Make in India Hackathon 2016 held in IIT Bombay as a part of Make in India initiative. They designed a wind turbine for urban spaces that could harness energy from any kind of wind entering the city. The first of its kind, these building-surface mountable wind turbines can harness energy at the highest efficiency in the given surroundings.
INDUSTRIAL COLLABORATIONS

GOOGLE TRANSPARENCY
A Google Maps-based platform for greater transparency in Government schemes

Funded and mentored by Google India, Annd Sangani and Ashutosh Kumar are working on a Google Maps-based platform that visualizes the infrastructural development of a particular location & draws information from the cloud for greater transparency within Government projects. They are being guided by Prof. Koumudi Patil.

PIPE HEALTH MONITORING SYSTEM
Design and Development sponsored by GAIL

Vaibhav Verma and Himanshu Panday, under the guidance of Prof. Bishak Bhattacharya, developed an in-line pipe crawler robot to inspect gas pipe lines. The robot would store data of the pipe condition to be further analyzed for detecting different flaws like corrosion, pitting, cracks, leakages etc. in the pipe. This project was sponsored by GAIL.

NASAL SPRAY
A collaborative workshop with University of St. Gallen, Switzerland. The workshop was about designing solutions/alternatives for nasal sprays. Loads of Post-its, loads of concepts and good Swiss Chocolates. A very enjoyable 2 day workshop.
Research Scholar’s Day
D’Logues, Research Scholars’ Day showcases the research works being carried out by the PhD students of the Design Programme. It was conducted in the month of April this year. The six session themes emphasized on the interdisciplinary nature of design and provided an opportunity to look into the current research activities of PhD students of Design Programme. We welcomed the campus research community to experience this interdisciplinary fusion of ideas and concepts and provide their valuable inputs.

Courses Offered
Our students have been offered a number of courses this year
- Integrated New Product Development
- Topics in Motion Pictures
- Special Topics in Design
- Design Thinking
- Art History
- Form and Style
- Fundamentals of Graphic Design
- Creative Visualization
- Research Methods in Design

International Universities visiting Design Programme:
- Students from PUJ Colombia visiting for a collaborative project
- Students from KTH Royal Institute of Technology, Sweden visiting for a collaborative project

Placements
Our students have been absorbed by companies like...
- Bharti SoftBank
- Clarice Technologies
- Cognizant
- Dell Services
- Flipkart
- Housing.com
- Infosys
- LG India
- Nvidia
- Persistent Systems
- PropTiger
- Samsung India
- Snapdeal
- TCS

Design Innovation Centre
Design Programme was chosen by the Ministry of Human Resource and Development under the National Initiative for setting up of Design Innovation Centres. The project proposal was “D3: Developmental Design for Disruptive Innovation” following a PPP model: People-Planet-Profit model for innovation which would involve working on the mentioned sectors.