



Venture Base Camp on Medtech Ideation

- Organized by BRBC -

Potential gains	This event is a Venture Base Camp (VBC) around Medtech Ideation, structured in the form of:	
	<ul style="list-style-type: none"> 1 Day workshop on Ideation and Design Thinking. Focus will be on inventive problem solving and designing technically feasible solutions. 	<ul style="list-style-type: none"> 2 day Hackathon (MEDHA) bringing together inter-disciplinary teams (Medical, Design and Engineering) to explore medical device ideation and innovation. Mentoring on IP, Regulatory and Tech Commercialization & Funding opportunities via help desks.
Organized by	<ul style="list-style-type: none"> BIRAC Regional BioInnovation Center (BRBC) @ Venture Center. Biomedical Engineering and Technology incubation Centre (BETiC) @ IIT Bombay. 	
Supported by	<ul style="list-style-type: none"> BIRAC IIT Bombay Venture Center, Pune College of Engineering Pune (COEP) MIT ADT Pune Symbiosis Pune 	
Facilitated by	<ul style="list-style-type: none"> NIDHI-Centre of Excellence (CoE) at Venture Center supported by Department of Science and Technology, Government of India (http://nidhicoe.venturecenter.co.in/) Prayashala and Tinkering Lab at Venture Center (http://tinkeringlab.co.in/) 	
Where	Lecture Theatre, Venture Center, 100 NCL Innovation Park, Dr. Homi Bhabha Road, Pashan, Pune – 411008.	
For whom	1 Day Workshop on Ideation & Design Thinking	2 Day Hackathon (MEDHA)
When	<ul style="list-style-type: none"> Professionals and Students who intend to explore entrepreneurship Early-stage entrepreneurs and startups 	Working professionals and final year PG/UG students from one of the following domains: <ul style="list-style-type: none"> Medical: Biomedical / Medicine / Physiotherapy Design: Industrial Design / Product Design / Visual Arts Engineering-I: Mechanical / Manufacturing / Materials Engineering-II: Electronics / Instrumentation / Software
Contact	Friday 19 July 2019 Time: 9 am to 6 pm	Saturday-Sunday 20-21 July 2019 Time: 8 am (on 20 July) – 6 pm (on 21 July)
Registration Details	Technical queries: <ul style="list-style-type: none"> Priya Nagraj 020-25865877, 7410045657 bioincubator@venturecenter.co.in Mugdha Lele 020-25865877, 7410045652 mugdha@venturecenter.co.in Administrative queries: Lipika Biswas 020-25865877/76 eventsdesk@venturecenter.co.in 	Technical queries: <ul style="list-style-type: none"> Mugdha Lele 020-25865877, 7410045652 mugdha@venturecenter.co.in Sandeep Anasane ssa.prod@coep.ac.in Administrative queries: Lipika Biswas 020-25865877/76 eventsdesk@venturecenter.co.in
Registration Details	<ul style="list-style-type: none"> Limited seats !! Total number of seats: 30 No fees, Free registration (Courtesy of BIRAC and BRBC, a 100% waiver of registration fee) 	<ul style="list-style-type: none"> Limited seats!! Total number of seats: 40 Fees : ₹ 1000/- (non-refundable)



	<ul style="list-style-type: none"> • Pre-registration required at: http://bit.ly/19july-ideation <p>Note:</p> <ul style="list-style-type: none"> • Organizers reserve the right to select participants so as to optimize the group for successful outcome of the venture base camp. • Last date of registration : Saturday, 13th July 2019 	<ul style="list-style-type: none"> • Registration Process: <ul style="list-style-type: none"> ➤ Step 1: Interested participants need to fill in registration form at the following link. Register online at: http://bit.ly/MEDHA2019 ➤ Step 2: Email invites will be sent post screening of registration details. ➤ Step 3: Attendance only on confirmation of payment of registration fee. <p>Note:</p> <ul style="list-style-type: none"> • Organizers reserve the right to select participants so as to optimize the group for successful outcome of the venture base camp. • Last date of registration : Tuesday, 25th June 2019
<p>Workshop includes</p>	<ul style="list-style-type: none"> • Lunch • Participation certificate on attendance of • Free membership in mailing list to follow-up on workshop and intimation of relevant events/ funding/ opportunities from Venture Center. • One-year free reference membership to Venture Center Library (http://www.vcenterlibrary.org/) 	<ul style="list-style-type: none"> • Breakfast, lunch, dinner (20th July), Midnight snacks • Participation certificate on attendance of 2 days (20 – 21 July 2019). • Free membership in mailing list to follow-up on workshop and intimation of relevant events/ funding/ opportunities from Venture Center. • One-year free reference membership to Venture Center Library (http://www.vcenterlibrary.org/)
<p>Workshop excludes</p>	<ul style="list-style-type: none"> • Participants will have to arrange for their own travel, local transport and accommodation and dinners. • For more information on Pune city, travel, transport and stay options, see http://www.venturecenter.co.in/puneguide/ 	<ul style="list-style-type: none"> • Participants will have to arrange for their own travel, local transport and accommodation and dinners. • For more information on Pune city, travel, transport and stay options, see http://www.venturecenter.co.in/puneguide/



Introduction

BIRAC Regional BioInnovation Centre (BRBC) is a joint initiative of BIRAC and Venture Center. It focuses on filling up a few key innovations ecosystem gaps in India for biotech/biomed startups specifically relating to mentoring, regulations, fund raising and BioIncubation practice.

Venture Base Camps are high intensity, focused, theme based camps intended to take a startup from point A to point B in their entrepreneurial journey, prior to their execution on key goals of the company.



The focus of this Venture Base Camp

Day 1 (19 July 2019)

The innovation workshop will introduce the participants to the Innovation FLOW framework. The entire ideation will be conducted in three stages - Focus, Leap & Orient, Whats next. In the Focus stage, the teams will focus on the problem formulation. The "Leap & Orient" stage is aimed at ideation - idea generation, evaluation and prioritization. Finally in the "What's next" stage, the teams will explore the future trends.

The participants will be trained in four powerful innovation tools (DESI)

- Design Thinking
- Exponential Thinking
- Systems Thinking and
- Inventive Thinking

Participants will form small teams (3-4) and will collaborate through the course of the workshop. Each team will bring a specific problem and use it to anchor the learning.

Day 2 and 3 (20-21 July 2019)

- Medtech Ideation via unmet clinical needs videos, brainstorming sessions, and developing a basic prototype followed by team presentations before a jury panel.
- Top innovators will win a chance for advanced training, mentoring and possible fellowships to convert their basic prototype ideas into products, and start their own companies for commercialization.
- Mentoring Help desks:
 - Intellectual Property
 - Planning for Regulatory
 - Tech Commercialization and Funding opportunities
- This Hackathon will be useful for professionals and final year (UG/PG) students who wish to explore entrepreneurship. A team of four from the following backgrounds will be formed:
 - Medical: Biomedical / Medicine / Physiotherapy
 - Design: Industrial Design / Product Design / Visual Arts
 - Engineering-I: Mechanical / Manufacturing / Materials
 - Engineering-II: Electronics / Instrumentation / Software

** Prerequisites: Bring your own laptops



Workshop Schedule

Time	Session title	Venue	Session Lead
Day 1: 19 July 2019			
0900 – 0930	Registration	100, NIP, Foyer area	
0930 – 1000	Introduction and Overview to the workshop	Training room	V. Premnath
1000 – 1030	Ideation and Design Thinking: Setting the stage	Training room	M. V. Shankar
1030 – 1100	Tea break	100, NIP, Foyer area	
1100 – 1300	Session 1	Training room	M. V. Shankar
1300-1400	Lunch Break	Innovation Cafe	
1400 – 1530	Session 2	Training room	M. V. Shankar
1530 – 1600	Tea break	100, NIP, Foyer area	
1600 – 1730	Way ahead : Building a designing strategy	Training room	M. V. Shankar
1730 – 1800	Feedback and Valedictory	Training room	V. Premnath

Faculty for Ideation and Design Thinking workshop (in order of last names; alphabetical order)

	<p>M. V. Shankar, Vice President- Mahindra & Mahindra</p> <p>A technology innovation leader. He is passionate about facilitating technology innovations in India. He excels in mentoring inventors to grow their ideas into innovations. He has 17 years of experience in Corporate R&D and Global Technology Organizations – GE, Dow, Honeywell and Cummins. With his rich experience in visioning future technologies, passion for scouting new technologies for potential business opportunities, Shankar has an excellent track record in Materials Innovation and New Product Development. He is an inventor with numerous granted patents and technical publications. He has managed global cross-functional teams to deliver technologies that are critical to business growth. He is co-Inventor on 10 issued US Patents. Shankar is a Ph.D. from Indian Institute of Science, Bengaluru and has a Management degree from Indian Institute of Management, Bengaluru.</p>
	<p>Premnath Venugopalan, Founding Director of Venture Center and Head, NCL Innovations</p> <p>Premnath holds a B.Tech from the Indian Institute of Technology - Bombay and a Ph.D. from the Massachusetts Institute of Technology, USA. He has also been a Chevening Technology Enterprise Fellow with the Centre for Scientific Enterprises, London Business School and Cambridge University, UK. He brings with him considerable experience in technology development and commercialization, working with start-up companies (in Cambridge-UK and India) and engaging with large corporations on research and consulting projects as project leader.</p>



Saturday, 20 July 2019

Time	Session title		Venue	Session Lead
0800 – 0930	Registration Breakfast		100NIP Foyer area Innovation Cafe	
0930 – 1030	Introductions and Overview		Training room	Venture Center team BETiC team
1030 – 1100	Tea break		Innovation Cafe	
1100 – 1300	Clinical Problem Videos		Training room	BJMC Team
1300-1400	Lunch Break		Innovation Cafe	
1400 – 1600	Team Formation, Problem Selection		Training room	All mentors
1600 – 1630	Tea break		Innovation Cafe	
1630 – 1800	Brainstorming, Concept Sketching	Mentoring** Helpdesks	Workspace 1 Workspace 2 Helpdesk room	All mentors
1800 – 2000	Prototyping starts (Prototyping kits distributed here)	Mentoring** Helpdesks	Workspace 1 Workspace 2 Helpdesk room	All mentors
2000 – 2100	Dinner Break		Innovation Cafe	
2100 onwards	Prototype Fabrication continues...		Workspace 1 Workspace 2 Protoshop block	All mentors
0000	Midnight Snacks		Innovation Cafe	

Sunday, 21 July 2019

Time	Session title		Venue	Session Lead
0800 – 0900	Breakfast		Innovation Cafe	
0900 – 1000	Presentation Guidelines		Training room	BETiC team
1000 – 1100	Preparation of Slides and Demo Video	Mentoring** Helpdesks	Workspace 1 Workspace 2 Helpdesk room	All mentors
1100 – 1300	Refinements and Practice	Mentoring** Helpdesks	Workspace 1 Workspace 2 Helpdesk room	All mentors
1300-1400	Lunch Break		Innovation Cafe	
1400 – 1600	Team Presentations		Training room	Jury Panel
1600 – 1630	Tea break		Innovation Cafe	
1630 – 1730	Result Declaration and Prizes		Training room	Venture Center team BETiC team



****Mentoring Helpdesks**





Day 1: 20 July 2019

1630 – 2000	Intellectual Property	Mentors Room	IP
	Planning for regulations		Regulatory
	Tech Commercialization and Funding opportunities		Funding




Day 2: 21 July 2019

1000 – 1300	Intellectual Property	Mentors Room	IP
	Planning for regulations		Regulatory
	Tech Commercialization and Funding opportunities		Funding

Helpdesk mentors (in alphabetical order of last names)

 Navnath Kadam	<p>Regulatory Mentor:</p> <p>Asst. Manager at RIFC - Venture Center, Pune Navnath Kadam provides leadership to the RIFC at Venture Center, Pune. He regularly advises startups on planning their regulatory roadmap and facility planning. He is developing a suite of services and resources of use to startups. He has multifaceted working experience in managing Quality and Regulatory operations at Medical Device startup Axio Biosolutions Pvt Ltd. He has completed PG Diploma in Entrepreneurship and Business Management from EDI, Ahmedabad and Master of Pharmacy with specialization in Quality Assurance Techniques from Poona College of Pharmacy, Pune.</p>
 Smita Kale	<p>Tech Commercialization and Funding opportunities mentor:</p> <p>Associate Manager at Venture Center, Pune. As a part of Incubation team, she facilitates incubator operations by interacting with incubatees, infrastructure and facilities creation and development of the ecosystem. Earlier She worked as Assistant Professor at Sinhgad Institute of Pharmaceutical Sciences. Dr. Smita Kale, is Ph. D in Pharmaceutical Chemistry from Institute of Chemical Technology, Mumbai and has academic experience of 12 years which includes research experience of 3.6 years. She has worked on stabilization of therapeutic proteins during her Ph. D research at Institute of Chemical Technology, Mumbai and has been bestowed with Best innovative Ph. D thesis award in 2018.</p>
 Mugdha Lele	<p>Tech Commercialization and Funding opportunities mentor:</p> <p>Sr. Manager – Social Innovations at Venture Center, Pune. She has done Ph.D from School of Health Sciences, University of Pune and has teaching and research experience in a State Government medical university. At Venture Center, she is responsible for driving the Social Innovations and related activities and is responsible for providing technical mentoring for incubatees at Venture Center. Mugdha has been a Fellow of the Chevening Rolls Royce Science, Innovation, Policy and Leadership Programme (CRISP) at the Said Business School, University of Oxford, UK in 2016. In 2018 she has also been part of the Aritra Accelerator Program for Leadership in the Social Sector at IIM Bangalore with Phicus Solutions and Dr. Reddy's Foundation.</p>
 Priya Nagaraj	<p>Tech Commercialization and Funding opportunities mentor:</p> <p>Bio incubation Manager - Venture Center, Pune Priya holds a Ph.D. in Cell Biology from University of Virginia, USA. She worked with Advinus Therapeutics Ltd, a pharmaceutical drug discovery company for over 5 years. She has research experience in biochemistry, cell biology, developmental biology, molecular biology and drug discovery.</p>



 <p>Ashutosh Prachand</p>	<p>IP Mentor:</p> <p>Assistant Manager – IP & Tech Transfer at IPFACE, Venture Center He has completed PG Diploma in Patents Law, NALSAR University, prior to that he pursued PGDM Biotechnology Management and has a bachelor’s degree in Biotechnology from University of Pune. He has 4 years of experience in the field of Intellectual Property Rights. Currently his profile includes drafting patent applications, Prior art and patentability Search and analysis. He has worked on inventions relating to Biotechnology, Biopharmaceuticals, Medical devices, Material Sciences and E&TC domain. His interest lies in applied biotechnology and biopharmaceuticals.</p>
 <p>Manisha Premnath</p>	<p>Tech Commercialization and Funding opportunities Mentor:</p> <p>General Manager and COO, Venture Center Manisha holds a Ph.D in Biotechnology from University of Pune and Post-doctoral training from University of Cambridge, UK. She has been a Chevening Rolls Royce Science, Innovation, Policy and Leadership Programme (CRISP) Fellow at the Said Business School, University of Oxford, UK during 2015 where she had the opportunity to study technology innovation ecosystems. She has research experience in biotechnology, microbiology, fungal biotechnology, molecular biology and molecular virology. She has experience in planning and setting up of advanced scientific facilities and program management.</p>
 <p>V Premnath</p>	<p>IP and Tech Commercialization and Funding opportunities Mentor:</p> <p>Founding Director - Venture Center and Head, NCL Innovations. He holds a B. Tech from the Indian Institute of Technology - Bombay and a Ph.D. from the Massachusetts Institute of Technology, USA. He has also been a Chevening Technology Enterprise Fellow with the Centre for Scientific Enterprises, London Business School and Cambridge University, UK. He brings with him considerable experience in technology development and commercialization, working with start-up companies (in Cambridge-UK and India) and engaging with large corporations on research and consulting projects as project leader.</p>



Faculty (in order of last names; alphabetical order)

	<p>Hackathon Mentors to be added shortly</p>
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About the Organizers	
	<p>BIRAC Regional Bioinnovation Centre (BRBC) is the third regional centre of BIRAC and is located in Venture Center. BRBC aims to fill up key innovation ecosystem gaps for bio-based industry sectors and thus significantly impact the translation of high quality innovative ideas into viable and sustainable business enterprises. Some key BRBC initiatives are Venture Mentoring Service; Venture Base Camps; Regulatory Information and Facilitation Centre; Bio Incubation Practice School.</p> <p>More on: http://www.brbc.venturecenter.co.in/</p>
	<p>Biomedical Engineering and Technology incubation Centre (BETIC) at IIT Bombay.</p> <p>BETIC based at Indian Institute of Technology Bombay is an inter-disciplinary multi-institution initiative for medical device innovation. Established in 2014 with support from the government of Maharashtra, it comprises a network of 11 engineering and medical institutes across the state. The BETIC teams have developed 50 medical devices as of 2019, and licensed 12 of them to startup companies or industry for mass production.</p> <p>More on: http://betic.in/</p>

Supported by	
	<p>Biotechnology Industry Research & Assistance Council is a non-profit company created by the Department of Biotechnology (Government of India) with a mandate to develop the national ecosystem for biotechnology innovation and entrepreneurship and provide targeted support to innovators and entrepreneurs.</p> <p>More on: www.birac.nic.in</p>
	<p>Entrepreneurship Development Center (Venture Center) – a CSIR initiative – is a Section 25 company hosted by the National Chemical Laboratory, Pune. Venture Center strives to nucleate and nurture technology and knowledge-based enterprises by leveraging the scientific and engineering competencies of the institutions in the Pune region in India. The Venture Center is a technology business incubator supported by the Department of Science & Technology's National Science & Technology Entrepreneurship Development Board (DST-NSTEDB). Venture Center's focuses on technology enterprises offering products and services exploiting scientific expertise in the areas of materials, chemicals and biological sciences & engineering. For more information, visit www.venturecenter.co.in</p>
	<p>College of Engineering, Pune (COEP) is an autonomous engineering institute Established in 1854, it is one of the oldest engineering colleges in Asia. With permanent affiliation to the Savitribai Phule Pune University, the institute now is an autonomous engineering school from 2003 onwards. COEP is a top-tier Institute in India that boasts a 160 year culture of academic excellence, scientific breakthroughs, and high-tech innovation.</p> <p>More on: http://www.coep.org.in/</p>
	<p>Autodesk, Inc. is an American multinational software corporation that makes software services for the architecture, engineering, construction, manufacturing, media, education, and entertainment industries. Autodesk became best known for AutoCAD, but now develops a broad range of software for design,</p>




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	<p>engineering and entertainment—and a line of software for consumers, including Sketchbook. The company makes educational versions of its software available at no cost to qualified students and faculty through the Autodesk Education Community, and also as a donation to eligible nonprofits through TechSoup Global. The manufacturing industry uses Autodesk's digital prototyping software—including Autodesk Inventor, Fusion 360, and the Autodesk Product Design Suite—to visualize, simulate, and analyze real-world performance using a digital model in the design process. The company's Revit line of software for building information modeling is designed to let users explore the planning, construction, and management of a building virtually before it is built. Autodesk's Media and Entertainment division creates software for visual effects, color grading, and editing as well as animation, game development, and design visualization. 3ds Max and Maya are both 3D animation software used in film visual effects and game development.</p> <p>More on: https://www.autodesk.com/</p>
	<p>B J Government Medical College and Sassoon General Hospitals Pune: Government hospital, a tertiary care facility in the city which gets referrals from in and around Pune city. The college, administered by the Government of Maharashtra, comprises clinical and para/pre-clinical departments working alongside the Sassoon General Hospital. It was founded by Byramjee Jeejeebhoy in 1878. The hospital serves the needs of patients from urban and rural Pune and a major referral centre for many of the surrounding districts. The hospital has state-of-the-art facilities in medical specialities including a cardiac catheterization laboratory, CT imaging, upper gastrointestinal tract endoscopy, etc. Weekly clinics are run for medical and surgical superspecialties. In spite of the large patient load and limited resources this hospital stands as much better option for poor and deprived from society. It is one of the top 20 medical colleges in India.</p> <p>More on: http://www.bjmc-pune.org/</p>
	<p>MIT–Art Design and Technology University, Pune is a state private University which awards undergraduate, postgraduate and doctoral degrees in innovative areas of Art, Design and Technology with special industry focused areas. This University is set up with a vision to develop, build and incorporate multidisciplinary academic programs in innovative fields and develop a research culture.</p> <p>More on: http://www.mituniversity.edu.in/</p>
	<p>Symbiosis is a Deemed University headquartered in Pune. The University has 38 academic institutions spread over ten campuses in Pune, Bengaluru, Noida, Hyderabad, Nashik and Nagpur. The University offers varied and content rich programmes which are industry specific and has multi-disciplinary approach. These programmes are offered through the constituent institutes of the University which are under the aegis of separate discipline. The University offers variety of programs under its eight faculties – law, management, computer studies, health and biological sciences, media and communication, humanities and social sciences, engineering at graduate, postgraduate and research levels.</p> <p>More on: https://siu.edu.in/</p>



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 	<p>The Tinkering Lab is a facility developed and managed by Venture Center, NCL Innovation Park, Pune, India. The main aim of the Tinkering Lab is to help inventors and entrepreneurs to build prototypes of their ideas and generally “tinker” around exploring new ideas. The focus is on electronics, instrumentation and optics besides related prototyping and design. For more information, visit http://tinkeringlab.co.in/</p> <p>The Prayashala is an all-in-one innovation center: design, build, test, certify and manufacture your project under one roof giving access to cutting edge equipment and an impressive array of the latest software, tools, labs, and shops. For more information, visit http://www.venturecenter.co.in/prayashala/</p>
	<p>The National Science and Technology Entrepreneurship Development Board (NSTEDB), Department of Science and Technology, Government of India has awarded Venture Center with the status of a NIDHI-CoE (National Initiative for Developing and Harnessing Innovations — Center of Excellence an umbrella programme conceived by DST). This award is accompanied by a grant of Rs. 50 Cr for 5 year duration to help Venture Center scale-up its activities and demonstrate greater success to accommodate more than 100 startups at any time and to upgrade and add new facilities for supporting science and technology based startups. NIDHI-COE is catalyzed and supported by NSTEDB Division, Department of Science and Technology, New Delhi. For more information, visit: http://nidhicoe.venturecenter.co.in/</p>

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