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## Design Thinking - A Primer

By Prof. Ashwin Mahalingam, Prof. Bala Ramadurai | IIT Madras

Leamers enrolled: 7977

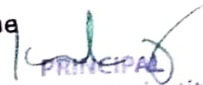
### Design Thinking - A Primer - Course Introduction



Design thinking is a systematic method of solving problems. This method is unique that it starts and ends with humans. The design thinkers start by observing, interviewing or just plain experiencing a situation. Then, they proceed to improve the situation of the humans by solving problems for them.

**INTENDED AUDIENCE:** General


**PREREQUISITES:** None

  
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G. Narayanaamma Institute of  
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Industries and institute recognize the need for design thinking - e.g., ICT, manufacturing, sales,  
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Course Status :	Completed
Course Type :	Elective
Duration :	4 weeks
Category :	◦ Management Studies
Credit Points :	1
Level :	Undergraduate/Postgraduate
Start Date :	24 Feb 2020
End Date :	20 Mar 2020
Enrollment Ends :	03 Feb 2020
Exam Date :	25 Apr 2020 IST

Note: This exam date is subjected to change based on seat availability. You can check final exam date on your hall ticket.

**This is an AICTE approved FDP course**

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## Course layout

**Week 1** : Introduction to Design Thinking

**Week 2** : Empathize Phase: Customer Journey Mapping

**Week 3** : Analyze Phase: 5-Whys and How might we...

**Week 4** : Solve Phase: Ideation: Free Brainstorming & Make/Test Phase: Prototype

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Books are

[\(https://swayam.gov.in/\)](https://swayam.gov.in/) [\(https://swayam.gov.in/nc\\_details/NPTEL\)](https://swayam.gov.in/nc_details/NPTEL)

Design: Creation of Artifacts in Society by Prof. Karl Ulrich, U. Penn  
Change by Design by Tim Brown.  
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## Instructor bio



**Prof. Ashwin Mahalingam**

IIT Madras

Dr. Ashwin Mahalingam joined the faculty in the Building Technology and Construction Management division of the Civil engineering department at IIT-Madras in 2006. Ashwin received his B.Tech in Civil engineering from IIT-Madras and then proceeded to Stanford University for a Masters in Construction Engineering and Management. He then helped start up an internet based company in the USA called All Star Fleet, aimed at providing asset management services for construction companies. Following this he returned to Stanford University to pursue a PhD in the area of Infrastructure Project Management. Ashwin's research interests are in the areas of Public Private Partnerships (PPP) in Infrastructure, the management and governance of large engineering projects and the use of digital technologies in construction. Ashwin's current research focuses on institutional strengthening and post-award governance of PPP projects in India. Ashwin is also a co-founder of Okapi Advisory Services Pvt. Ltd and serves as a Director on the Board.



**Prof. Bala Ramadurai**

Dr. Bala Ramadurai is an independent innovation consultant and professor. He has 3 patents to his credit and 10+ publications in international research journals. He co-founded TRIZ Innovation India (<http://trizindia.org>) and is an Adjunct Professor at Symbiosis Institute of Business Management, India. He has a PhD from Arizona State University, USA, and a B.Tech from IIT Madras, India.

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(AUTONOMOUS)  
Shaikpet, Hyderabad – 500104**



**Department: Information Technology**

**2019- 2020**

**REPORT**


**NPTEL course on Design Thinking – A Primer**


**Date of program: Feb- Mar 2020**


**Resource person: Prof. Ashwin Mahalingam, IIT Madras.**

**About the Program:**

In this npTEL, we gained skills on how to produce solutions that are not only functional but also deeply resonate with the needs and experiences of the end-users. It promotes a holistic and creative approach to problem-solving, driving innovation and user satisfaction.

  
Dr. V. Supriya

  
Signature of the Faculty member  
Dr. S. Prabavathy.

  
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