



CMR TECHNICAL CAMPUS
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Approved by AICTE, New Delhi and JNTU, Hyderabad
Kandlakoya, Medchal Road, Hyderabad- 501 401, Telangana



DEPARTMENT OF CSE(DS)

REPORT

Session Topic: “Design Thinking, Innovation Design validation and verification”, Institution’s Innovation Council (IIC5.0), Ministry of Education (MOE’s), Govt. of India.

1. Objective of the Program

- Understand the concepts of design thinking approaches
- Create design thinking teams and conduct design thinking sessions
- Apply both critical thinking and design thinking in parallel to solve problems
- Apply some design thinking concepts to their daily work

2. Benefits/Outcome of the Program

- To recognize the latest and future issues and challenges in innovation.
- To expose the student with state of the art perspectives, ideas, concepts, and solutions Related to the design and execution of innovation driven projects using design thinking Principles.
- To develop an advance innovation and growth mindset form of problem identification and reframing, foresight, hindsight and insight generation.
- To recognize and specify the best problem to solve and restate the problem as a function of its mutually exclusive and collectively exhaustive different dimensions.
- To propose a concrete, feasible, viable and relevant innovation project/challenge

3. Description:

4. Organized on: Date: 11-05-2023

5. Student Participants number: 153

6. Student/Faculty Registration Details with Time stamp:

1	Timestamp	Roll no / Faculty id	Name	Mail id	Section	Phone Number
2	5/11/2023 9:40:51	217R1A6756	S. Vivekreddy	vivekreddysolipeta2003@gmail.com	CSD A	9392614335
3	5/11/2023 9:41:01	217r1a6708	A.yogimanikanta	yogimanikantaare@gmail.com	CSD A	9059260912
4	5/11/2023 9:41:36	217r1a6754	Shaik Imran	217r1a6754@cmrtc.ac.in	CSD A	9908697141
5	5/11/2023 9:42:42	217R1A67D6	CH.JASWANTH	217R1A67D6@CMRTC.AC.IN	CSD C	7842120826
6	5/11/2023 9:42:46	217r1a67c9	Hemanth	217r1a67c9@cmrtc.ac.in	CSD C	9182259870
7	5/11/2023 9:43:06	217r1a67g2	M Abhiram	217r1a67g2@cmrtc.ac.in	CSD C	6302328446
8	5/11/2023 9:47:42	217R1A67G4	M. Aravind	217r1a67g4@cmrtc.ac.in	CSD C	9347948108
9	5/11/2023 9:47:59	217r1a67f3	Gopi krishna	217r1a67f3@cmrtc.ac.in	CSD C	9392345283
10	5/11/2023 9:48:13	217r1a7445	M saketh kumar	sakethmankala@gmail.com	CSG	6302557793
11	5/11/2023 9:48:27	217R1A67D4	B.Pranavi	217r1a67d4@cmrtc.ac.in	CSD C	6305646366
12	5/11/2023 9:48:50	217R1A7457	Nikhil	217r1a7457@cmrtc.ac.in	CSG	7842652762
13	5/11/2023 9:49:08	217r1a6711	B Pilot	217r1a6711@cmrtc.ac.in	CSD A	9505269310
14	5/11/2023 9:49:24	217R1A67H6	P. Vamshi kumar	217r1a67h6@cmrtc.ac.in	CSD C	7416638648
15	5/11/2023 9:49:31	217R1A67D3	BHUPELLI PAVANKU	217r1a67d3@cmrtc.ac.in	CSD C	6301211725
16	5/11/2023 9:49:40	217R1A67G1	Lella Sasi Naga	sasinagalella@gmail.com	CSD C	8019854603
17	5/11/2023 9:49:56	217R1A7407	B Praveen Kumar	217r1a7407@cmrtc.ac.in	CSG	8106008760
18	5/11/2023 9:50:09	217R1A67E6	Ramyra	217R1A67E6@Cmrtc.ac.in	CSD C	8309757062
19	5/11/2023 9:50:58	217R1A67D0	Shiva madhav	217r1a67d0@cmrtc.ac.in	CSD C	8374738737
20	5/11/2023 9:51:02	217R1A67F2	Bhavesb	217r1a67f2@cmrtc.ac.in	CSD C	8008170033
21	5/11/2023 9:51:08	217r1a67j5	Keerthana	217r1a67j5@cmrtc.ac.in	CSD C	9381944937
22	5/11/2023 9:51:11	217R1A67H9	Rishika	217r1a67h9@cmrtc.ac.in	CSD C	6303933849
23	5/11/2023 9:51:16	217r1a67d1	Dhanush	217r1a67d1@cmrtc.ac.in	CSD C	9391211498
24	5/11/2023 9:51:49	217R1A67E5	GADDAM SUDHARSH	217r1a67e5@cmrtc.ac.in	CSD C	9247985820
25	5/11/2023 9:52:09	217R1A67E8	Harsha L chari	217r1a67e8@cmrtc.ac.in	CSD C	9177601640
26	5/11/2023 9:52:16	217r1a67f7	KOTHILI RAHUL	217r1a67f7@cmrtc.ac.in	CSD C	9618579803
27	5/11/2023 9:52:17	6035	Dr.suraya mubeen	surayamubeen.ece@cmrtc.ac.in	Faculty	9908684182
28	5/11/2023 9:52:26	217R1A67H8	Palle Abhishek	217r1a67h8@cmrtc.ac.in	CSD C	8790212931
29	5/11/2023 9:52:35	217R1A67H7	Naveen Kumar Pabbu	217r1a67h7@cmrtc.ac.in	CSD C	7093275739
30	5/11/2023 9:52:42	217R1A7462	T. Raviteja	217R1A7462@cmrtc.ac.in	CSG	7780489631
31	5/11/2023 9:52:42	218r1a7440	Bala Murali Krishna	makkallabalamuralikrishna@cmrtc.ac.in	CSG	8096351529
32	5/11/2023 9:53:17	217R1A67G0	Lakma Abhinav	217r1a67g0@cmrtc.ac.in	CSD C	7036711725

38	5/11/2023 10:10:49	217r1a67k3	Y shruthi	217r1a67k3@cmrtc.ac.in	CSD C	9908240191
39	5/11/2023 10:17:48	217R1A67G3	Revathi Macharla	217R1a67g3@cmrtc.ac.in	CSD C	8639597744
40	5/11/2023 10:18:18	217R1A67F5	K. Deekshitha	217r1a67f5@cmrtc.ac.in	CSD C	7661035635
41	5/11/2023 10:18:32	217R1A67E9	Eluvaka bhavani	217r1a67e9@cmrtc.ac.in	CSD C	8555947744
42	5/11/2023 10:18:44	217r1a67j4	Sahithi kaaparthi	217r1a67j4@cmrtc.ac.in	CSD C	6303415764
43	5/11/2023 10:18:51	217r1a67e7	G. Hari Prasad	217r1a67e7@cmrtc.ac.in	CSD C	7013550924
44	5/11/2023 10:19:11	217R1A67D2	kinshu	217r1a67d2@cmrtc.ac.in	CSD C	7842614349
45	5/11/2023 10:19:57	217r1a67j2	ROUTHU NIKSHIPTHA	217r1a67j2@cmrtc.ac.in	CSD C	9392771109
46	5/11/2023 10:21:49	217r1a67f4	Kanikireddy gnanadee	217r1a67f4@cmrtc.ac.in	CSD C	7995774687
47	5/11/2023 10:22:58	217R1A67F0	Gopi Krishna	217r1a67f0@cmrtc.ac.in	CSD C	8688193950
48	5/11/2023 10:26:46	217R1A6733	Maddali Sri Lakshmi K	217r1a6733@cmrtc.ac.in	CSD A	9381859283
49	5/11/2023 10:54:13	217R1A67H1	N. Manoja Chowdhary	217r1a67h1@cmrtc.ac.in	CSD C	8367249728
50	5/11/2023 11:02:17	217R1A67E2	Endroo Pavan Kumar	217r1a67e2@cmrtc.ac.in	CSD C	9951579540
51	5/11/2023 11:03:12	217R1A67D8	Ch.Niharika	217r1a67d8@cmrtc.ac.in	CSD C	6304717483
52	5/11/2023 11:03:26	217R1A67D7	CHANDRA SANJAY K	217r1a67d7@cmrtc.ac.in	CSD C	8555081279
53	5/11/2023 11:05:29	217R1A67G6	M NANDA VARMA	217r1a67g6@cmrtc.ac.in	CSD C	9676735562
54	5/11/2023 11:13:48	217R1A67G9	Mohd Farhaan Hussai	217r1a67g9@cmrtc.ac.in	CSD C	9133089006
55	5/11/2023 13:04:30	217r1a67j0	Pitla Venkatesh	217r1a67j0@cmrtc.ac.in	CSD C	7981619641
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59	5/11/2023 13:43:04	217R1A6789	K.V.Chandana shree	217r1a6789@cmrtc.ac.in	CSD B	9392227833
60	5/11/2023 13:43:12	227R5A6709	Eslavath Anil	227r5a6709@cmrtc.ac.in	CSD B	6309716875
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62	5/11/2023 13:43:19	217R1A6787	IREDDY SHEETHAL P	217r1a6787@cmrtc.ac.in	CSD B	8919438642
63	5/11/2023 13:43:19	217R1A67A9	P. Soumya	217r1a67a9@cmrtc.ac.in	CSD B	9849196768
64	5/11/2023 13:43:20	217R1A6795	J.V.SubbaReddy	217r1a6795@cmrtc.ac.in	CSD B	6304566989
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66	5/11/2023 13:43:49	217R1A67C5	Vannela sainath	217r1a67c5@cmrtc.ac.in	CSD B	9966938575
67	5/11/2023 13:43:52	217R1A67A5	M.sindhu	217r1a67a5@cmrtc.ac.in	CSD B	8688523712

69	5/11/2023 13:44:05	217R1A6788	JADHAV PAVAN NAI	217r1a6788@cmrtc.ac.in	CSD B	6304098413
70	5/11/2023 13:44:06	217R1A67C3	Vootnuri sai ganesh	217r1a67c3@cmrtc.ac.in	CSD B	6302654554
71	5/11/2023 13:44:08	217R1A7427	G Sainith Reddy	217r1a7427@cmrtc.ac.in	CSG	9959179831
72	5/11/2023 13:44:10	217R1A6798	Kuna. Aishwarya	217R1A6798@cmrtc.ac.in	CSD B	6305781819
73	5/11/2023 13:44:20	217r1a67a1	M. David Samuel	217r1a67a1@cmrtc.ac.in	CSD B	8309506428
74	5/11/2023 13:44:24	217r1a67c8	Y.Sai Teja	217r1a67c8@cmrtc.ac.in	CSD B	9392371762
75	5/11/2023 13:44:28	217r1a6791	Dhanush	217r1a6791@cmrtc.ac.in	CSD B	9705614014
76	5/11/2023 13:44:31	217R1A67C4	V.Tejasree	217r1a67c4@cmrtc.ac.in	CSD B	7075581181
77	5/11/2023 13:44:34	217R1A7425	G.Abhilash	abhilashgangishetty555@gm	CSG	9951095675
78	5/11/2023 13:44:34	217R1A7447	MOHAMMED FARAZ	217R1A7447@cmrtc.ac	CSG	9398529989
79	5/11/2023 13:44:50	217R1A7453	N.Snehitha	217r1a7453@cmrtc.ac.in	CSG	8247515573
80	5/11/2023 13:44:51	217R1A7446	Upendra martha	Marthaupendra07@gmail.com	CSG	6305618682
81	5/11/2023 13:44:53	217r1a6760	T.Poojitha	217r1a6760	CSD A	9154616591
82	5/11/2023 13:44:57	217R1A6792	Siddartha	217r1a6792@cmrtc.ac.in	CSD B	8074310562
83	5/11/2023 13:44:59	217R1A7463	Sreemalya V	217r1a7463@cmrtc.ac.in	CSG	6362641199
84	5/11/2023 13:45:02	217r1a6722	Susheel Reddy Chada	chadasusheelreddy@gmail.c	CSD A	9110524822
85	5/11/2023 13:45:05	217r1a7424	BHAVYA SREE GADI	217r1a7424@cmrtc.ac.in	CSG	7075735329
86	5/11/2023 13:45:07	217R1A7415	Ch.Saicharan	chandasaicharan255@gmail.	CSG	9392709115
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89	5/11/2023 13:45:14	217R1A7448	Mohammed Mudassir	217r1a7448@cmrtc.ac.in	CSG	8143594957
90	5/11/2023 13:45:18	227R5A6704	Jala Avanthika	jalaavanthika@gmail.com	CSD A	7032972141
91	5/11/2023 13:45:23	217r1a67b1	PRAVEEN	pasupulapraveen31@gmail.c	CSD B	9640552088
92	5/11/2023 13:45:23	217r1a6711	B Pilot	217r1a6711@cmrtc.ac.in	CSD A	9505269310
93	5/11/2023 13:45:24	217r1a7421	Daraswar Shritika	217r1a7421@cmrtc.ac.in	CSG	9390971220
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95	5/11/2023 13:45:28	217R1A6729	Jankampet Harika	217r1a6729@cmrtc.ac.in	CSD A	9493623401
96	5/11/2023 13:45:29	217R1A67B2	Manimala pittala	217r1a67b2@cmrtc.ac.in	CSD B	9247815824
97	5/11/2023 13:45:30	217r1a7428	G Arun Kumar	217r1a7428@cmrtc.ac.in	CSG	9177235575
98	5/11/2023 13:45:31	217R1A6747	Rakesh pochampalli	217r1a6747@cmrtc.ac.in	CSD A	9381015104
99	5/11/2023 13:45:37	217r1a6736	Manideen	217r1a6736@cmrtc.ac.in	CSD A	9542482627

1	Timestamp	Roll no / Faculty id	Name	Mail id	Section	Phone Number
99	5/11/2023 13:45:37	217r1a6736	Manideep	217r1a6736@cmrtc.ac.in	CSD A	9542482627
100	5/11/2023 13:45:39	217R1A67C0	SHAIK ABDUL BASIT	217R1A67C0@cmrtc.ac.in	CSD B	9652679368
101	5/11/2023 13:45:40	227R5A6711	K.Rohini sagar	227r5a6711@cmrtc.ac.in	CSD B	8886730775
102	5/11/2023 13:45:43	217r1a6716	Bashamoni Nandini	217r1a6716@cmrtc.ac.in	CSD A	7337426741
103	5/11/2023 13:45:50	217R1A7435	Surya jagadeesh	jkola234@gmail.com	CSG	9059005566
104	5/11/2023 13:45:53	217R1A6753	Gowtham saviri	217R1A6753@cmrtc.ac.in	CSD A	8465863620
105	5/11/2023 13:45:56	217r1a7423	G sai Kalyan	217r1a7423@cmrtc.ac.in	CSG	7702445749
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114	5/11/2023 13:46:18	227r5a6714	Gks Satwik	227R5A6714@cmrtc.ac.in	CSD B	6304510977
115	5/11/2023 13:46:18	227r5a6717	Adarsh	Adarshlucky90@gmail.com	CSD C	9603773590
116	5/11/2023 13:46:19	227R5A7406	K.Vamshi Thilak	227r5a7406@cmrtc.ac.in	CSG	9494868513
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124	5/11/2023 13:46:45	227R5A7407	N Sai Manoj kumar	227r5a7407@cmrtc.ac.in	CSG	6305688963
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131	5/11/2023 13:47:26	217R1A67C1	S R Mahesh Kumar	217r1a67c1@cmrtc.ac.in	CSD B	9160029043
132	5/11/2023 13:47:43	217r1a7409	B.Ganesh	217r1a7409@cmrtc.ac.in	CSG	7659942104
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134	5/11/2023 13:47:56	217R1A7463	Veluvolu Deepthi	217r1a7464@cmrtc.ac.in	CSG	9392819193
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137	5/11/2023 13:48:21	227r5a6708	GOGINENI SRI RAM	227r5a6708@cmrtc.ac.in	CSD A	9666978579
138	5/11/2023 13:48:37	217r1a6706	Ananthula Jahnavi	217r1a6706@cmrtc.ac.in	CSD A	6309709467
139	5/11/2023 13:48:49	227r5a7404	K.Tharun Goud	227r5a7404@cmrtc.ac.in	CSG	6303808875
140	5/11/2023 13:50:02	217r1a6707	Anupoju Ramya sri	217r1a6707@cmrtc.ac.in	CSD A	6305282373
141	5/11/2023 13:50:04	217r1a6728	Vidya sagar	217r1a6728@cmrtc.ac.in	CSD A	8179477852
142	5/11/2023 13:50:15	217R1A6705	Ajmeera Srikanth	217r1a6705@cmrtc.ac.in	CSD A	9704876577
143	5/11/2023 13:53:39	217R1A7402	Aavula Keerthan Sai	keerthansaia111@gmail.com	CSG	9966945677
144	5/11/2023 13:54:12	217R1A7410	B Ajay Reddy	217r1a7410@cmrtc.ac.in	CSG	9390718853
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146	5/11/2023 13:54:30	217R1A7417	Chukka Anish	anishc20@gmail.com	CSG	7021101887
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150	5/11/2023 13:59:55	217r1a7464	Veluvolu deepthi	217R1A7464@cmrtc.ac.in	CSG	9392819193
151	5/11/2023 14:02:33	217a67j8	Harshitha Reddy	217r1a67j8@cmrtc.ac.in	CSD C	8143513754
152	5/11/2023 14:08:32	217R1A7422	Sai Nithin Reddy	217r1a7422@cmrtc.ac.in	CSG	8328156549
153	5/11/2023 14:11:25	2219	P N SANTOSH KUMA	pnsk47@gmail.com	CSD A	9396214537

7. Faculty Participants number: 05

8. Expenditure amount if any: 5000



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UPI transaction ID

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chsaritha8866@okaxis

From: BHUKYA SHANKAR NAYAK (HDFC Bank)

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9. Photographs:

Prof. Mansaf Alam (D/o Computer Science) is presenting

Design Thinking Process Stages

DESIGN THINKING

An iterative non-sequential process

01. Empathize
Understand the user thoroughly within the context of your design challenge

02. Define
Identify right problem & an actionable problem statement

03. Ideate
Come up with as many ideas as possible to solve the problem statement

04. Prototype
Build a sample model to Learn Fast, Learn Cheap and Learn Early

05. Test
Collect feedback from users to refine the problem, solution and user needs

Sagar Karupothula and YERUVA HARSHA VARDHAN REDDY YERUVA HARSHA VARDHAN REDDY can now join this meeting

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Prof. Mansaf Alam (D/...)

7426_CSG_Madhu

Prof. Mansaf Alam (D/...

Sasi Naga

U

Upendra Martha_07

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65 others

You

A Venn diagram with three overlapping circles: a pink circle on the left labeled "Desirability (Human)", a green circle on the top right labeled "Viability (Business)", and a blue circle on the bottom right labeled "Feasibility (Technology)". The central area where all three circles overlap is labeled "Innovation". A black dot is placed in the center of this intersection, with a thin black line extending from it towards the right.

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Stanford d.school Design Thinking Process

- EMPATHIZE**
 - Interviews
 - Shadowing
 - Seek to understand
 - Non-judgmental
- DEFINE**
 - Personas
 - Role objectives
 - Decisions
 - Challenges
 - Pain Points
- IDEATE**
 - Share ideas
 - All ideas worthy
 - Diverge/Converge
 - "Yes and" thinking
 - Prioritize
- PROTOTYPE**
 - Mockups
 - Storyboards
 - Keep it simple
 - Fail fast
 - Iterate quickly
- TEST**
 - Understand impediments
 - What works?
 - Role play
 - Iterate quickly

<https://dschool.stanford.edu>

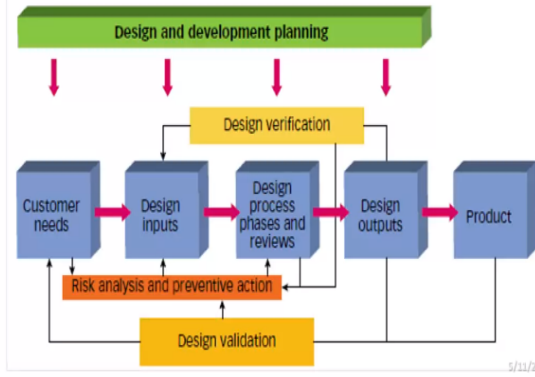
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7D0-CSD-C-A Shiva ... 7422_CSG_Bai nithin Chandra Sanjay Kumar Prof. Mansaf Alam (D/... Prof. Mansaf Alam (D/... Dontha Sukanya Sasi Naga 56 others You

Design and development planning process / FIGURE 1



5/11/23

10

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10. Video link url:

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11. Poster

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Design Thinking, Innovation,
Design validation and verification

GUEST SPEAKER
Dr. Mansaf Alam
Professor
Department of Computer
Science, Jamia Millia
Islamia, New Delhi.

11th May - 2023 **10:00 AM - 12:00 PM**

DR.B.Shankar nayak
M.PRAVEEN
Co Ordinator, IIC

Dr.k.Srinivas
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Science)

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12. Keywords: Ideation, Flexibility, Iteration, Inspiration.

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