



GURU NANAK INSTITUTE OF TECHNOLOGY

City Office: B2, 2nd Flr, Above Bata, Vikrampuri Colony, Karkhana Road, Secunderabad-50009, Telangana, India.
Ph: +91-40-6632 3294, 6517 6117, Fax: +91-40-2789 2633

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Campus: Ibrahimpatnam, R.R. District, Hyderabad-501506, Telangana, India. Ph: (0/95) 8414-20 21 20/21

CIRCULAR

Date: 08.10.2018

Technical Trainings (TT's) for II B. Tech students are starting from 15th October, 2018 onwards. All HODs and Placements coordinators have to manage the trainings and ensure 95% attendance all through the sessions.

All Mentors need to send the compiled feedback report to Dr.S.Deepa Jothi, HOD at hodcse.gnit@gniindia.org daily. Mentors are advised to take care of PNR (Students not participating in training).

Agenda:

AUGMENTED REALITY & VIRTUAL REALITY

HOD-CSE



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SYLLABUS FOR AUGMENTED REALITY & VIRTUAL REALITY:

SNO.	TOPIC COVERED	DURATION(in hours)
1	Introduction to Augmented Reality and Virtual Reality	3
2	The five Classic Components of a VR System	3
3	Reality, Virtuality and Immersion	3
4	Position and Motion Tracke Inside Out/Outside In Tracker Performance Parameters	3
5	Navigation and Manipulation Interfaces Tracker-Based Navigation/Manipulation Interfaces	3
6	Physiology, Psychology and the Human Experience Adaptation and Artifacts	3
7	VR Health and Safety Issues Effects of VR Simulations on Users	3
8	Cyber sickness, before and noGuidelines for Proper VR Usage	3
9	VR, Immersive Tech and the Society Impact on Professional Life	3
10	Areas and industries for immersive reality applications. Entertainment	3
11	Use-cases, applications and production pipelines From Sensing to Rendering	3
12	Impact on Professional Life Impact on Private Life	3

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LIST OF REGISTERED STUDENTS FOR AUGMENTED REALITY & VIRTUAL REALITY

S.No	H. T. No.	NAME OF THE STUDENT
1	17831A0562	JADHAV PRAVEEN KUMAR
2	17831A0563	KAITHA SOWMYA
3	17831A0564	KALLEM SHIVA KUMAR REDDY
4	17831A0566	KANDALGAONKAR PRANAV ANIL
5	17831A0567	KARROLLA SAIGNAN GOUD
6	17831A0568	KASALA SHIVASAI
7	17831A0569	KASARLA RAJENDER REDDY
8	17831A0570	KETHAVATH RAJU
9	17831A0571	KODURUPAKA YASHWANTH
10	17831A0572	KOMMU RACHEL MADHUMITHA
11	17831A0573	KONAKALLA SAI VARENY
12	17831A0574	KOPPULA DINESH
13	17831A0575	KORRA GANESH
14	17831A0576	KORUTOORU SAI VARUN TEJA
15	17831A0577	KOTHAPELLI SHASHIKUMAR
16	17831A0578	KOVVURI SAIESHWAR
17	17831A0579	KRISHNA SAI CHOLKAR
18	17831A0581	KUNDOORU KEERTHI REDDY
19	17831A0582	LAKKADI PRANAVI REDDY
20	17831A0583	LALIT D RUPANI
21	17831A0584	LOTLA SANDHYA
22	17831A0585	MADAMSHETTI VASANTH KUMAR
23	17831A0586	MAMILLAPALLI SAI SRI HARSHA
24	17831A0588	MANSI NARAYANRAO DESHPANDE
25	17831A0589	MOHAMMAD ALTAZ ALAM
26	17831A0591	MOHAMMED SAMEER
27	17831A0592	MOTHUKURI RAKESH
28	17831A0593	MOTHUKURY SAI MANIROOP
29	17831A0594	MUDAVATH GANESH
30	17831A0595	N MANEESHA



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31	17831A0596	NADENDLA PRAVALLIKA
32	17831A0598	NALUBALA ADITHYA
33	17831A0599	NAZIRIYA SULTANA
34	17831A05A0	NUKALA SRI CHARANI
35	17831A05A1	NUTHAKKI RUPINI
36	17831A05A2	P SHIVA SHANKAR
37	17831A05A3	PAPISETTY SRINATH
38	17831A05A4	PARUPATI ASHRITHA
39	17831A05A5	PIRSINGULA SAI CHANDRA
40	17831A05A6	POLAMPALLI RAMYA
41	17831A05A7	POTHURAJU SRIDHAR
42	17831A05A8	POTU SREEJA
43	17831A05A9	RAGHAVENDER CHOLLETI
44	17831A05B0	RAHUL NIDIGONDA
45	17831A05B1	RAMAGIRI HARIVARDHAN
46	17831A05B2	RANGU GAYATHRI
47	17831A05B3	RANGU MAITHRI
48	17831A05B4	RATAKONDA VAMSI KRISHNA
49	17831A05B5	RAVALKOL TARUN
50	17831A05B6	REDDI SAI PRADEEP
51	17831A05B7	SAISRUTHI VAIDYAM
52	17831A05B8	SHRADDHA GAJANAN KODGIRWAR
53	16831A05G6	SYAM PRASAD
54	16831A05B6	SADIYA BUSHRA
55	16831A0536	SAI KIRAN
56	16831A0529	SAI TEJA
57	16831A0564	KALLU AMARENDAR REDDY
58	16831A05C6	NAKKA AMMULU
59	17831A05C3	ALUR SUBRAMANYA SHANTHAN
60	17831A05C4	CHERLAPALLY SRI MEGHANA
61	17831A05C5	DANTULURI SRIKAR VARMA
62	17831A05C7	DEVULAPALLI CHINNIMADHAVA
63	17831A05C9	MODEM NIKHIL
64	17831A05D1	NARRA SAI VARDHAN REDDY
65	17831A05D2	POTLA TRIVENI
66	17831A05D3	REBBA POOJA
67	17831A05D4	SABAVATH SHAILAJA



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68	17831A05D5	SAI EASHWAR KUMAR SUTHARAPU
69	17831A05D6	SAI HARSHA MADDI
70	17831A05D7	SALLA NITISHREDDY
71	17831A05D9	SARDARNI SURENDER KOUR
72	17831A05E0	SAYMON ACHARYA
73	17831A05E1	SHAIK ASIF
74	17831A05E2	SHAIK SAIFULLAH
75	17831A05E4	SHUBHAM VERMA
76	17831A05E5	SODEM SHANTHI KUMARI
77	17831A05E7	T AJAYKUMAR
78	17831A05E8	T LAKSHMI CHANDANA
79	17831A05E9	T SHREYA
80	17831A05F0	TEJAS PRAFUL SHAH
81	17831A05F1	THAKUR MAHIPAL SINGH
82	17831A05F4	THOTA MADHAN
83	17831A05F5	UDATA YAMINI
84	17831A05F6	URATI PRATEESH
85	17831A05F7	V M V SHASHANK
86	17831A05F8	VANGETI OM REDDY
87	17831A05F9	VEERAMANENI MOUNIKA
88	17831A05G0	VEGESNA ROHIT VARMA
89	17831A05G1	VELDI SAMANVITHA
90	17831A05G2	VEMAVARAPU JAYANI
91	17831A05G3	VOLIVOJU SHIVA KRISHNA
92	17831A05G4	VUPPALA HARVINI
93	17831A05G5	Y KETHAN SAI PAVAN
94	17831A05G6	MANDADI NIKHIL
95	17831A05H1	MOHAN KEYAL
96	17831A05H2	CHANDAR KUMAR KAPUR
97	17835A0501	ALLURI PRANEETH KUMAR
98	18835A0505	BANDA SANDEEP YADAV
99	18835A0506	BOLLIPELLI PRIYA
100	18835A0507	DORNALA DEEPIKA
101	18835A0508	GOGULA SWARNAKAR REDDY
102	18835A0510	MALLELA HARIKA
103	18835A0511	MOHAMMAD SEEMABEGUM
104	18835A0512	PRITI



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105	18835A0515	THURPATI SRINIVAS
106	17831A0501	A SAI TEJA
107	17831A0502	AAKASH DESHPANDE
108	17831A0503	AASHI M SHAH
109	17831A0504	ADEPU CHAKRAVARTHI
110	17831A0505	AKARAPU SUDHAMAYI
111	17831A0506	AKKANDRA CHANDRA SEKHAR
112	17831A0507	ALUVALA TEJASVI
113	17831A0508	ANANTULA PRIYANKA
114	17831A0510	ANTHATI YAMINI
115	17831A0511	ANUGANDULA MANIDEEP
116	17831A0512	ANUGU VINEETH REDDY
117	17831A0513	ANUMANDLA NIKHITHA
118	17831A0514	ARKALA JAYANTH KUMAR
119	17831A0515	ARRAM ANILA
120	17831A0516	ARROLLA ISRAEL JOHN
121	17831A0517	B MEGHANA
122	17831A0519	BARLI SRUJANA
123	17831A0520	BATHULA SANDEEP
124	17831A0521	BEJENKI AJAY CHARI
125	17831A0522	BHOOMA PRATHYUSHA
126	17831A0523	BIKKI DINESH GOUD
127	17831A0524	BITLA KETHAN SAI
128	17831A0525	BODDAPATI LEELA KRISHNA
129	17831A0527	BONALA NIKHIL
130	17831A0528	BORLAKUNTA PRASHANTH
131	17831A0529	BURRI BHARATH BABU
132	17831A0530	CHALLA PRANAY KUMAR REDDY
133	17831A0531	CHAVAN ASHISH
134	17831A0532	CH VENKATA SAI JYOTHI SWAROOP
135	17831A0534	CHINTHA CHARAN SAI
136	17831A0535	CHUNDURU SAI MANASWINI
137	17831A0537	DAMMALAPATI LOKESH
138	17831A0538	DATHRAK VAISHNAVI
139	17831A0539	DENDI SHRUTHI
140	17831A0540	DEVA SAI ARUN TEJA



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141	17831A0541	DEVULAPALLY AKANKSHA
142	17831A0543	EDARA AARTHI
143	17831A0544	EROLLA SUREKHA
144	17831A0545	ERRABELLI RAM CHARAN RAO
145	17831A0546	G SHRESHTA
146	17831A0548	GARSHAKURTHI SAITEJA
147	17831A0549	GATTU ROHITH
148	17831A0550	GAVINI SRUCHITHA
149	17831A0551	GOSHIKA NIKHITHA
150	17831A0552	GOTI SAKETH PAVAN
151	17831A0553	GUDIDHA SAI CHARAN
152	17831A0557	M BHAVYASREE SAI DURGA
153	18835A0501	ANKATHI SAISREE
154	18835A0502	ARELLY MANI CHAND
155	18835A0503	BANDARI NARENDAR
156	18835A0504	BODA ANUPAMA

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AUGMENTED REALITY AND VIRTUAL REALITY

QUESTION PAPER

Duration: 120 min

4 x5=20 marks

Answer the following all questions. Each question carries 5 marks

1. Explain five classic components of a Virtual Reality System?
2. Write short notes on Position and Motion Trackers?
3. Define Inertial and hybrid trackers?
4. Discuss briefly about VR, Immersive Tech and the Society?

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MARKS SHEET OF AR & VR REGISTERED STUDENTS:

S.No	H. T. No.	NAME OF THE STUDENT	MARKS	RESULT
1	17831A0562	JADHAV PRAVEEN KUMAR	16	PASS
2	17831A0563	KAITHA SOWMYA	16	PASS
3	17831A0564	KALLEM SHIVA KUMAR REDDY	15	PASS
4	17831A0566	KANDALGAONKAR PRANAV ANIL	10	PASS
5	17831A0567	KARROLLA SAIGNAN GOUD	15	PASS
6	17831A0568	KASALA SHIVASAI	16	PASS
7	17831A0569	KASARLA RAJENDER REDDY	18	PASS
8	17831A0570	KETHAVATH RAJU	7	FAIL
9	17831A0571	KODURUPAKA YASHWANTH	14	PASS
10	17831A0572	KOMMU RACHEL MADHUMITHA	16	PASS
11	17831A0573	KONAKALLA SAI VARENY	18	PASS
12	17831A0574	KOPPULA DINESH	19	PASS
13	17831A0575	KORRA GANESH	18	PASS
14	17831A0576	KORUTOORU SAI VARUN TEJA	16	PASS
15	17831A0577	KOTHAPELLI SHASHIKUMAR	18	PASS
16	17831A0578	KOVVURI SAIESHWAR	7	FAIL
17	17831A0579	KRISHNA SAI CHOLKAR	16	PASS
18	17831A0581	KUNDOORU KEERTHI REDDY	16	PASS
19	17831A0582	LAKKADI PRANAVI REDDY	18	PASS
20	17831A0583	LALIT D RUPANI	19	PASS
21	17831A0584	LOTLA SANDHYA	16	PASS
22	17831A0585	MADAMSHETTI VASANTH KUMAR	15	PASS
23	17831A0586	MAMILLAPALLI SAI SRI HARSHA	13	PASS
24	17831A0588	MANSI NARAYANRAO DESHPANDE	15	PASS
25	17831A0589	MOHAMMAD ALTAF ALAM	16	PASS
26	17831A0591	MOHAMMED SAMEER	15	PASS
27	17831A0592	MOTHUKURI RAKESH	18	PASS
28	17831A0593	MOTHUKURY SAI MANIROOP	7	FAIL
29	17831A0594	MUDAVATH GANESH	16	PASS
30	17831A0595	N MANEESHA	16	PASS



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35	17831A05A1	NUTHAKKI RUPINI	18	PASS
36	17831A05A2	P SHIVA SHANKAR	17	PASS
37	17831A05A3	PAPISETTY SRINATH	7	FAIL
38	17831A05A4	PARUPATI ASHRITHA	15	PASS
39	17831A05A5	PIRSINGULA SAI CHANDRA	14	PASS
40	17831A05A6	POLAMPALLI RAMYA	16	PASS
41	17831A05A7	POTHURAJU SRIDHAR	18	PASS
42	17831A05A8	POTU SREEJA	19	PASS
43	17831A05A9	RAGHAVENDER CHOLLETI	18	PASS
44	17831A05B0	RAHUL NIDIGONDA	6	FAIL
45	17831A05B1	RAMAGIRI HARIVARDHAN	18	PASS
46	17831A05B2	RANGU GAYATHRI	14	PASS
47	17831A05B3	RANGU MAITHRI	16	PASS
48	17831A05B4	RATAKONDA VAMSI KRISHNA	12	PASS
49	17831A05B5	RAVALKOL TARUN	16	PASS
50	17831A05B6	REDDI SAI PRADEEP	18	PASS
51	17831A05B7	SAISRUTHI VAIDYAM	15	PASS
52	17831A05B8	SHRADDHA GAJANAN KODGIRWAR	13	PASS
53	16831A05G6	SYAM PRASAD	7	FAIL
54	16831A05B6	SADIYA BUSHRA	16	PASS
55	16831A0536	SAI KIRAN	15	PASS
56	16831A0529	SAI TEJA	18	PASS
57	16831A0564	KALLU AMARENDAR REDDY	12	PASS
58	16831A05C6	NAKKA AMMULU	5	FAIL
59	17831A05C3	ALUR SUBRAMANYA SHANTHAN	16	PASS
60	17831A05C4	CHERLAPALLY SRI MEGHANA	15	PASS
61	17831A05C5	DANTULURI SRIKAR VARMA	10	PASS
62	17831A05C7	DEVULAPALLI CHINNIMADHAVA	15	PASS
63	17831A05C9	MODEM NIKHIL	4	FAIL
64	17831A05D1	NARRA SAI VARDHAN REDDY	18	PASS
65	17831A05D2	POTLA TRIVENI	17	PASS
66	17831A05D3	REBBA POOJA	16	PASS
67	17831A05D4	SABAVATH SHAILAJA	15	PASS



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70	17831A05D7	SALLA NITISHREDDY	18	PASS
71	17831A05D9	SARDARNI SURENDER KOUR	19	PASS
72	17831A05E0	SAYMON ACHARYA	18	PASS
73	17831A05E1	SHAIK ASIF	6	FAIL
74	17831A05E2	SHAIK SAIFULLAH	18	PASS
75	17831A05E4	SHUBHAM VERMA	14	PASS
76	17831A05E5	SODEM SHANTHI KUMARI	16	PASS
77	17831A05E7	T AJAYKUMAR	7	FAIL
78	17831A05E8	T LAKSHMI CHANDANA	15	PASS
79	17831A05E9	T SHREYA	16	PASS
80	17831A05F0	TEJAS PRAFUL SHAH	15	PASS
81	17831A05F1	THAKUR MAHIPAL SINGH	18	PASS
82	17831A05F4	THOTA MADHAN	5	FAIL
83	17831A05F5	UDATA YAMINI	16	PASS
84	17831A05F6	URATI PRATEESH	16	PASS
85	17831A05F7	V M V SHASHANK	15	PASS
86	17831A05F8	VANGETI OM REDDY	10	PASS
87	17831A05F9	VEERAMANENI MOUNIKA	16	PASS
88	17831A05G0	VEGESNA ROHIT VARMA	7	FAIL
89	17831A05G1	VELDI SAMANVITHA	15	PASS
90	17831A05G2	VEMAVARAPU JAYANI	16	PASS
91	17831A05G3	VOLIVOJU SHIVA KRISHNA	15	PASS
92	17831A05G4	VUPPALA HARVINI	18	PASS
93	17831A05G5	Y KETHAN SAI PAVAN	12	PASS
94	17831A05G6	MANDADI NIKHIL	16	PASS
95	17831A05H1	MOHAN KEYAL	16	PASS
96	17831A05H2	CHANDAR KUMAR KAPUR	16	PASS
97	17835A0501	ALLURI PRANEETH KUMAR	16	PASS
98	18835A0505	BANDA SANDEEP YADAV	15	PASS
99	18835A0506	BOLLIPELLI PRIYA	10	PASS
100	18835A0507	DORNALA DEEPIKA	16	PASS
101	18835A0508	GOGULA SWARNAKAR REDDY	12	PASS
102	18835A0510	MALLELA HARIKA	15	PASS
103	18835A0511	MOHAMMAD SEEMABEGUM	16	PASS
104	18835A0512	PRITI	15	PASS



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105	18835A0515	THURPATI SRINIVAS	18	PASS
106	17831A0501	A SAI TEJA	15	PASS
107	17831A0502	AAKASH DESHPANDE	18	PASS
108	17831A0503	AASHI M SHAH	12	PASS
109	17831A0504	ADEPU CHAKRAVARTHI	16	PASS
110	17831A0505	AKARAPU SUDHAMAYI	16	PASS
111	17831A0506	AKKANDRA CHANDRA SEKHAR	16	PASS
112	17831A0507	ALUVALA TEJASVI	16	PASS
113	17831A0508	ANANTULA PRIYANKA	15	PASS
114	17831A0510	ANTHATI YAMINI	10	PASS
115	17831A0511	ANUGANDULA MANIDEEP	16	PASS
116	17831A0512	ANUGU VINEETH REDDY	15	PASS
117	17831A0513	ANUMANDLA NIKHITHA	16	PASS
118	17831A0514	ARKALA JAYANTH KUMAR	15	PASS
119	17831A0515	ARRAM ANILA	18	PASS
120	17831A0516	ARROLLA ISRAEL JOHN	15	PASS
121	17831A0517	B MEGHANA	18	PASS
122	17831A0519	BARLI SRUJANA	12	PASS
123	17831A0520	BATHULA SANDEEP	16	PASS
124	17831A0521	BEJENKI AJAY CHARI	16	PASS
125	17831A0522	BHOOMA PRATHYUSHA	15	PASS
126	17831A0523	BIKKI DINESH GOUD	10	PASS
127	17831A0524	BITLA KETHAN SAI	15	PASS
128	17831A0525	BODDAPATI LEELA KRISHNA	16	PASS
129	17831A0527	BONALA NIKHIL	18	PASS
130	17831A0528	BORLAKUNTA PRASHANTH	17	PASS
131	17831A0529	BURRI BHARATH BABU	10	PASS
132	17831A0530	CHALLA PRANAY KUMAR REDDY	16	PASS
133	17831A0531	CHAVAN ASHISH	15	PASS
134	17831A0532	CH VENKATA SAI JYOTHI SWAROOP	16	PASS
135	17831A0534	CHINTHA CHARAN SAI	15	PASS
136	17831A0535	CHUNDURU SAI MANASWINI	18	PASS
137	17831A0537	DAMMALAPATI LOKESH	15	PASS
138	17831A0538	DATHRAK VAISHNAVI	18	PASS
139	17831A0539	DENDI SHRUTHI	12	PASS
140	17831A0540	DEVA SAI ARUN TEJA	17	PASS
141	17831A0541	DEVULAPALLY AKANKSHA	10	PASS



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142	17831A0543	EDARA AARTHI	16	PASS
143	17831A0544	EROLLA SUREKHA	15	PASS
144	17831A0545	ERRABELLI RAM CHARAN RAO	16	PASS
145	17831A0546	G SHRESHTA	15	PASS
146	17831A0548	GARSHAKURTHI SAITEJA	17	PASS
147	17831A0549	GATTU ROHITH	10	PASS
148	17831A0550	GAVINI SRUCHITHA	16	PASS
149	17831A0551	GOSHIKA NIKHITHA	15	PASS
150	17831A0552	GOTI SAKETH PAVAN	16	PASS
151	17831A0553	GUDIDHA SAI CHARAN	15	PASS
152	17831A0557	M BHAVYASREE SAI DURGA	17	PASS
153	18835A0501	ANKATHI SAISREE	10	PASS
154	18835A0502	ARELLY MANI CHAND	16	PASS
155	18835A0503	BANDARI NARENDAR	15	PASS
156	18835A0504	BODA ANUPAMA	16	PASS

No of students Registered = 156

No of students Passed = 144

No of students Failed = 12

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SUMMARY REPORT OF AUGMENTED REALITY & VIRTUAL REALITY

- To provide an overview of the opportunities and the main issues related to designing and developing VR/AR systems architectures, both in local and in distributed (even web-based) contexts, and to the development of VR/AR applications with a multimodal perspective and approach.
- Augmented reality (AR) systems present a mixture of virtual and real objects. The challenge for AR system evaluators is how to tell whether the virtual world is effective at conveying the sense of reality.
- It may never be possible or even necessary to determine whether the user is truly fooled in all situations or is merely "suspending disbelief," but one can objectively measure the effectiveness of an AR environment with a task-based approach.
- We present the results of our first such experiment, involving low-level perceptual tasks of recognition and depth matching.

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TTA Founder

Trainer



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Trainer