INDEX

ODD Semesters Examinations held during Nov. /Dec. 2020

	Branch	Appeared	Pass / RLE	Fail	College Pass % Nov. 2020	College Pass % Nov 2019
First Year BE Sem . I	ETRX	56	56	0	100	50.77
	CMPN	194	190	4	97.94	77.17
	INST	35	33	2	94.29	41.46
	EXTC	122	119	3	97.54	70.25
	INFT	127	127	0	100	76.38
	AI & DS	63	63	0	100	NA
	Total	**597**	**588**	**9**	**98.49**	**69.52**
MCA I Year		**125**	**125**	**0**	**100**	**86.44**
Second Year BE Sem III	ETRX	65	65	0	100	85.51
	CMPN	186	185	1	99.46	97.14
	INST	40	40	0	100	82.86
	EXTC	123	123	0	100	83.57
	INFT	127	126	1	99.21	87.14
	Total	**541**	**539**	**2**	**99.63**	**88.85**
MCA II Year		**117**	**117**	**0**	**100**	**87.72**
Third Year BE Sem V	ETRX	141	141	0	100	82.73
	CMPN	212	212	0	100	95.48
	INST	72	72	0	100	84.93
	EXTC	149	147	2	98.66	91.88
	INFT	74	74	0	100	95.83
	Total	**648**	**646**	**2**	**99.69**	**90.88**
MCA III Year		**118**	**118**	**0**	**100**	**89.81**
Fourth Year BE Sem VII	ETRX	139	139	0	100	99.25
	CMPN	221	221	0	100	98.60
	INST	73	73	0	100	97.33
	EXTC	200	196	4	98.00	98.57
	INFT	73	73	0	100	98.63
	Total	**706**	**702**	**4**	**99.43**	**98.59**

OVERALL PLACEMENT SUMMARY (LAST 4 YEARS) UG/PG

Overall	2017-18	2018-19	2019-20	2020-21*
Job Offered	597	691	603	570
More than one Job offer	48	114	108	133
Placed	549	577	495	437
Strength (Total)	847	872	820	826
Strength (Interested)	727	714	700	644
% Offered (Strength)	70.48	79.24	73.54	69.01
% Offered (Interested)	82.12	96.78	86.14	88.51
% Placed (Interested)	75.52	80.81	70.71	67.86
Minimum Salary	1.8	1.35	1.8	2.1
Average Salary	4	4	4.5	4.5
Maximum Salary	16	15.9	14	30
No of Companies	52	78	93	75

Placement Statistics 2020-21 batch UG/PG (PRESENT BATCH)

	Overall	Electronics Engineering	Computer Engg	Instrumentation Engg	Electronics & Tele.	Information Technology	MCA*
Job Offered	570	70	228	27	106+1(ME)	62	77
More than one Job offer	133	16	59	2	31	16	9
Placed	437	54	169	25	75+1(ME)	45^	68
Strength (Total)	826	139	222	73	201	73	118
Strength (Interested)	644	89	201	56	139	67	92
% Offered (Strength)	69.01	50.35	102.70	36.98	52.73	84.93	65.25
% Offered (Interested)	88.51	78.65	113.43	48.21	76.25	92.54	83.70
% Placed (Interested)	67.86	60.67	84.08	44.64	53.95	67.16	73.91

* Training and Placement Cell also facilitate Internships for MCA Students during their Semester VI.

Figures likely to increase as placement drives are still going on for the 2020-21 batch.

^ One student with two offers in the same company.

PLACEMENT   DETAILED STATUS FOR A.Y. 2019-20 & 2020-21

Detailed Placement Status A.Y. 2020-21

Sr. No	Company	Total offers	ETRX Offers	CMPN Offers	INST Offers	EXTC Offers	INFT Offers	MCA Offers	Stipend	Salary(CTC) (Lac/Annum)
1	**JPMC-CFG**	**25**	**NIL**	**18**	**NA**	**2**	**5**	**NIL**	**NA**	**14**
2	Nomura(MCA)	3	NA	NA	NA	NA	NA	3	35K	7.42
3	carwale)	3	NIL	3	NA	Nil	NIL	NA	NA	7.5
4	General mills(MCA)	4	NA	NA	NA	NA	NA	4	20K	5.5
5	Interactive brokers	1	NA	0	NA	1	NIL	NIL	NA	8,28
6	Indus Valley Partners	3	NA	3	NA	Nil	NIL	NIL	NA	7.52
7	ISS-institutional shareholder services	5	NIL	4	0	Nil	1	NIL	NA	8
8	Dolat Capital	3	NA	3	NA	NA	NIL	NA	NA	6
9	BNP Paribhas(MCA)	6	NA	NA	NA	NA	NA	6	20K	5
10	CRISIL (MCA)	8	NA	NA	NA	NA	NA	8	15K	4
11	Dark horse Digital(MCA)	9	NA	NA	NA	NA	NA	9	15K	4
12	**Capgemini**	**86**	**10**	**33**	**3**	**28***	**12**	**1**	**NIL**	**3.8/6.8**
13	**LTI**	**89**	**16**	**46**	**3**	**17**	**7**	**NA**	**NA**	**5/6.5**
14	Quantiphi Analytics	16	NIL	8	0	2	5	1	NA	8.5
15	TCS Codevita(Ninja)	11	NIL	5	4	NIL	3	NIL	0	3.3
16	TSS	9	1	6	NA	2	NIL	NA	NA	6/4/3.6
17	Cyber Inc	2	1	1	NA	NA	Nil	NA	NA	8
18	Amazon AWS	0	0	0	NA	0	Nil	NA	NA	6-10
19	Dark horse Digital(BE)	6	NA	6	NA	NA	Nil	NA	NA	4
20	Accenture(85(3))	88	17	31	2	16	13	9	NA	4.5/6.5
21	TSS(MCA)	0	NA	NA	NA	NA	NIL	NIL	NA	3.8
22	Acumen Security	5	1	3	NA	1	Nil	NA	NA	5

23	Atlas Solutions	1	NA	NA	NA	NA	NA	1	5K	3.25
24	Sankey Solutions	4	1	0	NA	2	NIL	1	NA	3
25	e-Emphasis (MCA)	0	NA	NA	NA	NA	NA	NIL	NA	4.5
26	RippleHire	3	NA	NA	NA	NA	NA	3	10k	4 – 6
27	Virtusa	0	NA	0	NA	NA	NA	NA	NA	4.5/6
28	L& T GET	4	2	1	NA	1	NIL	NA	NA	6
29	Applied Cloud Computing	2	NA	NA	NA	NA	NA	2	8k	2.7
30	Calypso Technology (MCA)	0	NA	NA	NA	NA	NA	NIL	21k	7,39,782
31	TCS NQT	38	9	13	NA	12	1	3	NA	3.26
32	AXS Technologies	0	NA	NA	NA	NA	NA	NIL	8k-10k	2.5 - 4
33	Mobicule Technologies	12	NA	NA	NA	NA	NA	12	6k	**
34	Burns & M'C Donell	2	NA	NA	2	NA	NA	NA	NA	4.5
35	MAQ Software	2	NA	1	NA	NA	1	NA	NA	6
36	Ernst & Young	6	1	2	1	2	Nil	NA	NA	4.25
37	Montran Corporation	6	NA	5	NA	NA	1	NA	NA	3.5
38	IDFC First Bank	3	NA	3	NA	NA	Nil	NA	NA	15(12.5 +2.5)
39	Syum	4	NA	NA	NA	NA	NA	4	5k	**
40	e-Emphasis (MCA 2nd time)	2	NA	NA	NA	NA	NA	2	NA	4.5
41	CleverTap	4	NA	NA	NA	NA	NA	4	25k-30k	6 Lac
42	CMS	4	NA	NA	NA	NA	NA	4	5K	**
43	Deloitte	12	2	2	1	5	2	NIL	NA	7.6
44	NCDEX	3	NA	2	NA	NA	1	NA	NA	4.2
45	Elastic Run	2	NA	1	NA	NA	1	NA	NA	6
46	Vistaar	1	NA	1	NA	NA	Nil	NIL	NA	3.3
47	Willis tower	2	NA	1	NA	NA	1	NA	NA	5.5
48	alight services India Pvt. Ltd	11	1	7	NA	1	2	NA	NA	5
49	Cerelabs	1	NIL	1	NA	NA	Nil	NIL	NA	3.6

50	LTIL INFINITY	14	3	5	NA	5	2	NA	NA	8/6.52
51	Nomura-Kakushin	3	NA	2	NA	NA	1	NA	NA	7.42+2
52	Swabhav Techlabs	2	NA	1	NA	NA	1	NA	NA	3.5/3
53	alight services India Pvt. Ltd(Off-campus)	1	1	NA	NA	NA	Nil	NIL	NA	5
54	LTFS	2	NA	2	NA	NA	Nil	NA	NA	6
55	SCIATIVE SOLUTIONS	0	NA	0	NA	NA	Nil	NA	NA	3.5
56	KIWHODE LEARNING PRIVATE LIMITED (OFF CAMPUS)	1	NA	1	NA	NA	Nil	NA	NA	12
57	Network Marvel	3	1	0	NA	1	1	NA	NA	5.25
58	Galaxy surfactants	2	NA	NA	2	NA	NA	NA	NA	5
59	GEP	4	NIL	NA	2	2	NA	NA	NA	4.25
60	Tecnip Energies	2	NA	NA	2	NA	NA	NA	NA	6
61	Johnson controls	4	NA	NA	4	NA	NA	NA	NA	4
62	Acidaes Solutions Pvt.Ltd. (off campus)	1	1	NA	NA	NA	NA	NA	NA	3.6
63	Penthara Technologies Inc.(Offcampus)	1	NA	1	NA	NA	NA	NA	NA	6
64	Ryka Engineering	1	NA	NA	1	NA	NA	NA	NA	2.1
65	5 Paisa Capital Limited (off campus)	1	1	NA	NA	NA	NA	NA	NA	5.5
66	Ugam (off Campus)	1	NA	NA	NA	1	NA	NA	NA	7
67	Miko (off campus)	1	1	NA	NA	NA	NA	NA	NA	2.16
68	Accenture(off campus)	6	NA	0	NA	5	1	NA	NA	4.5
69	KPMG (off campus)	1	NA	NA	NA	1	NA	NA	NA	4.5
70	Growisto	0	NA	NA	NA	0	0	NA	NA	4

71	Ayu Devices (Offcampus)	1	NA	1	NA	NA	NA	NA	NA	6.24
72	**Pay Pal (Off campus)**	**1**	**NA**	**1**	**NA**	**NA**	**NA**	**NA**	**NA**	**30**
73	Dolat Capital 2	2	NA	2	NA	NA	0	NA	NA	6.5/9
74	Quantiphi Analytics (Offcampus)	1	NA	1	NA	NA	NA	NA	NA	8
75	Adapty (Offcampus)	1	NA	1	NA	NA	NA	NA	NA	3.22

Job Offered	570	70	228	27	106+1 (ME)	62	77
More than one Job offers	133	16	59	2	31	16	9
Placed	437	54	169	25	75+1(ME)	45	68
Strength (Total)	826	139	222	73	201	73	118
Students Registered for Placement	644	89	201	56	139	67	92
% Offered (Strength)	69.01	50.35	102.70	36.98	52.73	84.93	65.25
% Offered (Registered)	88.51	78.65	113.43	48.21	76.25	92.54	83.70
% Placed (Registered)	67.86	60.67	84.08	44.64	53.95	67.16	73.91
Minimum Salary	2.1						
Maximum Salary	30						
No of Companies	75						

Detailed Placement Status A.Y. 2019-20 (Previous Year)

Sr. No	Company	Total offers	ETRX Offers	CMPN Offers	EXTC Offers	INFT Offers	MCA Offers	Stipend	Salary(CTC) (Lac/Annum)
1	Nomura(MCA)	4	NA	NA	NA	NA	4	35 k	11LPA (9+2)
2	teradata	2	NA	2	NA	NIL	NIL	NA	8.9/9.7/13.6
3	JPMC-CFG	25	NIL	20	NA	4	1	NA	14
4	Interactive brokers	3	NA	3	NA	NIL	NIL	NA	8.18
5	General mills(MCA)	3	NA	NA	NA	NA	3	NA	6.5 (5.5+1)
6	Indus Valley Partners	3	NA	3	NIL	NIL	NIL	NA	7.02 /7.52
7	ISS-institutional shareholder services	4	NIL	4	NIL	NIL	NIL	NA	7-7.5
8	Justdial	10	NA	8	NA	2	NIL	NA	7
9	carwale	4	NIL	3	NIL	1	NA	NA	7.5
10	MAQ Software	4	NA	3	NA	1	NIL	NA	6
11	Quantiphi	9	NIL	4	1	3	1	NA	6.5-7.5
12	TCS EngiNX Digital	4	NA	1	NA	2	NIL	NA	7
13	TCS NINJA	17	5	5	NIL	1	6	NA	3.3
14	Dolat	3	NA	2	NA	1	NA	NA	5.5
15	EY	8	NA	6	NA	2	NIL	NA	4.25
16	KPMG	1	NA	0	1	NIL	NA	NA	5-5.4
17	BNP Paribas(MCA)	16	NA	NA	NA	NA	16	12k	5.25
18	Fractal analytics (MCA)	1	NA	NA	NA	NA	1	15k	4
19	Acucert Lab	4	NA	1	3	NIL	NA	NA	5
20	Network Marvels	4	NA	2	NA	2	NIL	NA	5.1
21	Zeus Learning	1	NA	NA	NA	NA	1	25k	5
22	Infosys SES Dream	2	NA	2	NA	NIL	NIL	NA	5
23	CRISIL (MCA)	10	NA	NA	NA	NA	10	15k	4
24	Accenture ASE	186	32	59	42	22	22	NA	4.5
25	Accenture FSE (Dream)	22	2	6	10	3	1	NA	6.5
26	amazon AWS	1	NIL	0	NA	1	NA	NA	5
27	Elastic Run(Dream)	2	NA	1	NA	NIL	1	30K	6
28	NSE IT	7	2	1	3	NIL	1	NA	3.5
29	Reliance Jio(Pool)	11	NA	7	4	NIL	NA	NA	3.5
30	Acrotrend	2	NA	1	NA	1	NA	15K	4.8
31	Media.net	2	NA	2	NA	NIL	NA	NA	6.1
32	BURNS & MCDOWELL	4	NA	NA	NA	NA	NA	NA	4.25

33	Technip FMC	0	NA	NA	NA	NA	NA	NA	4
34	Capgemini(27+2)	29	3	8	11	5	NIL	NA	3.8/6.8
35	Aker solution	2**	NA	NA	NA	NA	NA	NA	6
36	LTI(Dream)(61+2)	63	8	29	14	9	NA	NA	5/6.5
37	Seclore Technology	0	NIL	0	0	NIL	NA	NA	4.5
38	Thyssenkrp(inst)	2	NA	NA	NA	NA	NA	NA	6.025
39	GEP	3	2	0	0	NIL	NA	NA	4.25
40	Vistaar Systems Pvt Ltd	2	NA	1	NA	NIL	1	13.75k	3.3
41	sciative solutions	1	NA	1	NA	NIL	NIL	NA	3.5
42	Dark horse digital	5	NIL	3	1	NIL	1	NA	4
43	Sankey Solutions	3	NIL	0	0	NIL	3	15k	3
44	E-Emphyasys	3	NA	0	NA	NIL	3	NA	4.5
45	EEEC	5	NA	NA	NA	NA	NA	NA	6.5
46	PMaps	2	NA	NA	NA	NA	2	6k	2.4-4.00
47	CloudGanga	0	NA	NA	NA	NA	NIL	8K	3.2
48	DigitalRipple	1	NA	NA	NA	NA	1	7k	2.25-3
49	Applied Cloud Computing	5	NA	NA	NA	NA	5	8k-12k	2.7
50	Ripple Hire	1	NA	NA	NA	NA	1	10k	3.4-4.2
51	Reliance Industries Ltd	1	NA	NA	NA	NA	NA	NA	7.5
52	Worley parson	6	NA	NA	NA	NA	NA	NA	4
53	Tata consulting Engineers	2	NA	NA	NA	NA	NA	NA	4.5
54	Johnson controls	3	1	NA	NIL	NA	NA	NA	4
55	Toyo Engineering India Ltd	2	NA	NA	NA	NA	NA	NA	5.3
56	Techint Engg	1	NA	NA	NA	NA	NA	NA	3.6
57	citiustech	4	NA	4	NA	NIL	NA	NA	4
58	teradata Offcamous	1	NA	1	NA	NIL	NA	NIL	3.5
59	netmonastery	6	NA	5	NA	1	NA	NA	3.5/5
60	Tecnimont ICB	2	NA	NA	NA	NA	NA	NA	6
61	SYUM	5	NA	NA	NA	NA	5	5 K	20-25k
62	Property Pistol	1	NA	NA	NA	NA	1	8K	3-5
63	RITE	1	NA	NA	NA	NA	1	5k –10k	2-2.5
64	NSEIT (MCA)	3	NA	NA	NA	NA	3	8K	3.5
65	Moneyfrog	3	NA	NA	NA	NA	3	5k	2.4
66	ATOS (Offcampus)	2	NA	1	NA	1	NA	NA	3.50
67	Infosys SE	1	NA	1	NA	NIL	NA	NA	3.8
68	Arcon	3	NA	2	NA	1	NIL	NIL	3.5-5.5
69	BNP Paribas	1	NA	NIL	NA	1	NA	NA	5.25

70	*GANIT**	0	NA	NIL	Nil	NIL	NA	NA	4.7
71	***DECIMAL POINT***	0	NA	NIL	NA	NIL	NA	NA	3.6
72	*RELAINCE JIO*	1	NA	1	Nil	NIL	NA	NA	3.5
73	Aver solutions*	6	3	NA	3	NIL	NA	NA	3.5
74	Capgemini (pooled Campus)	4	1	1	1	1	NA	NA	3.8
75	Paktolus Solutions	2	1	1	Nil	NIL	NA	NA	3
76	*Infosys pool*	5	NA	2	2	1	NA	NA	3.6
77	*research wire*	1	NIL	NIL	1	NIL	NA	NA	5.5
78	*mestec (pool)*	1	NA	NA	1	NIL	NA	NA	3.2
79	*Kraft Education Services*	1	NA	NA	1	NIL	NA	NA	2.4
80	*Byjus off campus*	2	2	NIL	1	NIL	NA	NA	3-10
81	*Endimension Technology off-c*	1	NA	NA	1	NA	NA	NA	4.8
82	*TCS coding*	6	NA	NIL	6	NIL	NA	NA	3.3
83	*NCDEX*	2	NA	NIL	NA	2	NA	NA	4.2
84	Wonderbiz(off campus)	1	NA	NA	NA	1	NA	NA	3
85	Interactive brokers(Off-C)	1	NA	NIL	NA	1	NA	NA	8.28
86	Dark horse digital 2	3	NA	3	NA	NIL	NIL	NA	4
87	(Zaya Learning Labs)Off-c	1	NA	1	NA	NIL	NA	NA	5
88	L&T Engineering	4	NA	3	Nil	NIL	NA	NA	6
89	Swabhav Techlabs (off-c)	1	NA	1	NA	NIL	NA	NA	3.5
90	iAssist Health offcampus	1	NA	NA	NA	NA	NA	NA	1.8
91	Paktolus Solutions (Off-c)	1	1	NA	NA	NA	NA	NA	3
92	Imensys (Off-c)	2	NA	NA	NA	NA	NA	NA	2.03
93	Ryka Engg (Off-c)	1	NA	NA	NA	NA	NA	NA	1.09
	Job Offered	603	63	215	107	70	98		
	Second Job		7	42	16	14	20		
	Placed	495	56	173	**91**	56	78		
	Strength (Total)	745	134	215	213	74	109		
	Strength (Interested)	645	89	181	196	70	109		
	% Offered (Strength)	80.94	47.01	100.00	50.23	94.59	89.91		
	% Offered (Interested)	93.49	70.78	118.78	54.59	100.00	89.91		
	% Placed (Interested)	76.74	62.92	95.58	46.43	80.00	71.56		
	Minimum Salary	1.8							
	Maximum Salary	14							
	No of Companies	93							

Applications for A. Y. 2020-21

- **Reduction in Intake** in **Bachelor of Engineering (B.E.) Electronics Engineering** (Regular First Shift) **from 120 to 60**

- **Increase in Intake/course in Emerging Area in Bachelor of Engineering (B.E.) Artificial Intelligence & Data Science** (Regular First Shift**) with intake 60**

Introduction of new norms by AICTE

As per new Norms, The Courses offered in the timings of Regular Shift, First Shift, Second Shift and Part Time shall be considered as **Regular Courses**.

The Institutions shall have to fulfill all facilities such as Infrastructure, Faculty and other requirements to offer the Regular Courses as per the norms specified in the Approval Process Handbook for the Total Approved Intake and the Institutions may conduct the Courses in the timings of Regular Shift, First Shift, Second Shift and Part Time not exceeding the "Approved Intake" of each Course, as per the convenience of all stakeholders.

All such Institutions shall create the necessary Faculty, Infrastructure and other facilities WITHIN 2 YEARS to fulfill the norms.

REPORT ON FIRST YEAR ADMISSIONS

FIRST YEAR ENGINEERING

	ETRX		CMPN		INST		EXTC		INFT		AI & DS	
	2021	1920	**2021**	1920	**2021**	1920	**2021**	1920	**2021**	1920	**2021**	1920
INTAKE	**60**	120	**180**	180	**60**	60	**120**	120	**120**	120	**60**	NA
ADMITTED	**53**	64	**180**	180	**32**	38	**115**	120	**120**	120	**60**	NA
VACANT	7	56	0	0	28	22	5	0	0	0	0	NA
TFWS INTAKE	**3**	3	**9**	9	**3**	3	**6**	6	**6**	6	**3**	NA
TFWS ADMITTED	**3**	3	**7**	4	**3**	3	**6**	4	**6**	6	**3**	NA
OVER & ABOVE	**0**	0	**7**	3	**0**	0	**0**	1	**1**	2	**0**	NA

OPEN – Open Home University   MI- Minority Quota   ACAP – Against CAP Seat   TFWS- Tuition Fees Waiver

CET CUTOFF												
	ETRX		CMPN		INST		EXTC		INFT		AI & DS	
	2021	1920	**2021**	1920	**2021**	1920	**2021**	1920	**2021**	1920	**2021**	1920
OPEN HIGH	**95.29**	95.71	**99.37**	99.3	**93.00**	95.95	**98.06**	99.51	**97.98**	97.91	**98.39**	NA
OPEN LOW	**86.83**	87.42	**97.23**	98.58	**62.74**	68.38	**92.84**	93.72	**96.37**	97.32	**95.47**	NA
MI HIGH	-	80.24	**99.17**	99.69	**74.95**	-	-	86.72	**93.35**	91.99	**93.41**	NA
MI LOW	-	-	**68.24**	14.79	-	-	-	-	**10.44**	9.41	**50.43**	NA
ACAP HIGH	**84.24**	81.33	**98.19**	98.23	**52.01**	35.8	**93.36**	90.22	**96.09**	95.49	**95.29**	NA
ACAP LOW	**23.01**	20.65	**95.66**	35.8	**31.31**	-	**65.27**	12.66	**93.31**	89.68	**92.12**	NA

OPEN – Open Home University   MI- Minority Quota   ACAP – Against CAP Seat   TFWS- Tuition Fees Waiver

TOTAL ADMISSIONS DURING A.Y. 2020-21

COURSE	FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
B.E. Electronics Engineering	**56**	**177**	144	139
B.E. Computer Engineering	**194**	**203**	213	222
B.E. Instrumentation Engineering	**35**	**69**	73	73
B.E. Electronics & Telecomm. Engineering	**122**	**139**	149	200
B.E. Information Technology	**127**	**70**	75	73
B.E. Artificial Intelligence & Data Science	**63**	NA	NA	NA
TOTAL	597	658	654	707
B.E. TOTAL STUDENTS	2616			
MCA	125	118	118	NA
MCA TOTAL	361			
M.E. Instrumentation & Control	**0**	**3**	NA	NA
M.E. Electronics & Telecomm.	**1**	**2**	NA	NA
M.E. Information Technology	**2**	**4**	NA	NA
M.E. TOTAL	12			

REPORT ON SCHOLARSHIPS

VESIT Alumni Association scholarship

VESIT Alumni Association observed that online academics are here to stay and provisioning resources for online operations forms the need of the hour. In order to support the students of VESIT in the dire situation, VESIT Alumni Association (VESITAA) decided to provide laptops to a select few needy students (one student from each department).

Overall 14 laptops were distributed of which Eight (08) laptops were provided by VESITAA to one student of each department respectively, one (01) laptop was donated by **Mr. Gautam Murlidhar**, alumni IT department, two laptops(02) were given by **Mr. Vijay Talreja**, alumni Computer department while five (05) laptops were given by **Mr. Niraj Gunde** alumni, Instrumentation department.

Sahyog Scholarship

Six (06) laptops were awarded through in VESIT Sahyog scholarship on 12th November 2020. The scholarship was awarded for helping out the current VESIT students during the COVID 19 situation through providing resources for their utilization.

Shri Ram Keswani Protsahan Puraskar

Shri Ram Keswani Protsahan Puraskar aims towards helping those students who are academically strong, economically underprivileged, and wish to study further. **One student** of VES Institute of Technology was appreciated with Ram Keswani Protsahan puraskar amount Rs.50000/- on 17th October 2020 for deserving encouragement and support on account of dedication towards academic pursuits.

Government Scholarship sanctioned during A. Y. 2020-21

Sr. No.	Department	Caste Category	Perticular	Total Students	Scholarship Amt. 1st Installment	Scholarship Amt. 2nd Installment
1	Social Justice & Asst.	SC	Government of India Post-Matric Scholarship **(Scholarship)**	28	12,91,952	12,91,952
			Post-Matric Tuition Fee and Examination Fee **(Freeship)**	33	16,58,150	16,58,150
2	Tribal	ST	Post Matric Scholarship Scheme (Government Of India)	1	50,933	50,933
3	OBC/ SBC/ VJNT	OBC	Post Matric Scholarship to OBC Students **(Scholarship)**	43	10,06,516	10,06,516
			Tuition Fees and Examination Fees to OBC Students **(Freeship)**	132	30,04,900	30,04,900
		SBC	Post Matric Scholarship to SBC Students	3	1,41,817	1,41,817
			Tuition Fees and Examination Fees to SBC Students	9	3,62,742	3,62,742
		VJNT	Post Matric Scholarship to VJNT Students	8	3,71,831	3,71,831
			Tuition Fees and Examination Fees to VJNT Students	10	4,57,772	4,57,772
4	DTE	EBC	Rajarshi Chhatrapati Shahu Maharaj Shikshan Shulkh Shishyavrutti Yojna(EBC)	822	1,69,61,696	1,69,61,696
		Religious Minority	Scholarship for students of minority communities pursuing Higher and Professional courses(DTE)	19	-	-
		Hostel	DrPunjabrao Deshmukh Vastigruh Nirvah Bhatta Yojna(DTE)	2	-	-
5	DHE	Meritorious	Assistance to Meritorious Students scholarship - Junior Level	1	-	-
6	AICTE	PMSSS	Prime Minister Special Scholarship Scheme	17	4,08,000	-
			Grand Total	**1128**	**2,57,16,311**	**2,53,08,311**

Private Scholarship Status for A.Y. 2020-21

SR NO	TRUST NAME	NO OF STUDENTS	AMOUNT
1	OHM JYOTI	1	107043
2	NORTH STAR ROTARY CLUB	1	10000
3	**VES EDU. FUND**	**14*15000**	**205000**
4	VES WELFARE SEC.	1	10000
5	**SINKHAI FOUNDATION**	**2*10000**	**20000**
6	SAI VILRYATRAI SAI JIWALSINGH	2	45000
7	VES SCHOLARSHIP A/C	1	15000
8	**VESIT ALUMNI**	**2*25000**	**50000**
9	SHREE VENKATESHWAR NIDHI TRUST	1	31000
10	**VESIT STUDENT AID**	**30*15000**	**450000**
11	**VIVEKANAND JYOTI**	**6*25000**	**150000**
	TOTAL	**61**	**10,93,043/-**

Since 1962

ACHIEVEMENTS

VESIT Achieves Platinum Rating in AICTE CII Survey 2020

All India Council for Technical Education (AICTE), in partnership with Confederation of Indian Industry (CII) ranked Vivekanand Education Society's Institute of Technology as a Platinum Standard Institute. VESIT achieved the esteemed rating in the above 30 score band among 814 institutes that were shortlisted by AICTE, New Delhi for a full survey this year.

List of Institutions which Participated in the Survey along with their Rating

S.No	Name of Institute	Institute Type	AICTE Region	State	Score Band	Rating
795	VIVEKANAND EDUCATION SOCIETY'S COLLEGE OF PHARMACY	Self-financing	Western	Maharashtra	Above 30	Platinum
796	VIVEKANAND EDUCATION SOCIETY'S INSTITUTE OF MANAGEMENT STUDIES AND RESEARCH	Self-financing	Western	Maharashtra	10 and below	Silver
797	VIVEKANAND EDUCATION SOCIETY'S INSTITUTE OF TECHNOLOGY	Self-financing	Western	Maharashtra	Above 30	Platinum

Status of some nearby Engineering College

Name of the Institute	Score Band	Rating
THADOMAL SHAHANI ENGINEERING COLLEGE	**10 & Below**	**SILVER**
D. Y. PATIL COLLEGE OF ENGINEERING & TECHNOLOGY	**10 & Below**	**SILVER**
ATHARVA COLLEGE OF ENGINEERING	**Between 11 to 29**	**GOLD**
TERNA PUBLIC CHARITABLE TRUST'S **TERNA ENGINEERING COLLEGE**	**Between 11 to 29**	**GOLD**
MCT'S **RAJIV GANDHI INSTITUTE OF TECHNOLOGY**, MUMBAI	**Between 11 to 29**	**GOLD**
THAKUR COLLEGE OF ENGINEERING & TECHNOLOGY	**Above 30**	**PLATINUM**
K.J. SOMAIYA INSTITUTE OF ENGINEERING & INFORMATION TECHNOLOGY	**Above 30**	**PLATINUM**

Government Sponsorships / Grants

Statement of Live Grants / Sponsorship received for Research Project and STTP / FDP for FY 2020-21

Sr. No.	Grant / Sponsorship for	Funding Agency	Sanctioned Amount in Rs.	Project Duration	Project Year	2020 - 21	2021 - 22 upto 30.06.2021
A	**GRANT FOR RESEARCH PROJECT**						
1	MODROB - Advance Wireless Lab	AICTE	9,11,765	2	1	7,29,412	-
2	**BRNS Project** - Development of Methodology for Indian Evaluated Nuclear Data Library for Applications in S & T	Department of Atomic Energy (DAE) Borad of Research in Nuclear Sciences (BRNS)	17,81,276	3	2	3,42,310	5,56,232
B	**GRANT FOR STTP / FDP**						
1	Blockchain & Its Application	AICTE	4,03,333/-	-	-	4,03,333/-	-
2	Cyber Security	AICTE	93,000/-	-	-		93,000/-
3	Electric Vehicle	AICTE	93,000/-	-	-		93,000/-
4	Green IOT (19-20)	AICTE	1,79,666/-				
C	**SPONSERSHIP FOR RESEARCH PROJECT UNDER CSR**						
1	Swechcha Project (VESIT with MCGM)	Star Union Dai-Ichi Insurance Company Ltd	24,00,000/-	2	1	6,05,000/-	6,25,000/-
D	**Unnat Bharat Abhiyan**	IRD - IIT Delhi	1,00,000/-	-	-	50,000/-	
		TOTAL	**59,62,040/-**			**21,30,055/-**	**13,67,232/-**

SWADESHI MICROPROCESSOR CHALLENGE -2020

The Swadeshi Microprocessor Challenge - 2020 is organized by the Ministry of Electronics and Information Technology, Govt. of India in collaboration with C-DAC, IIT Madras, MyGov and MakerVillage under #AatmaNirbharBharat Abhiyan.

There is a growing need for Swadeshi Compute Hardware, which would be a part of every Smart Device deployed in different domains, from Electronics for public utility services such as Surveillance, Transportation, Environmental condition monitoring; to commodity appliances like smart fans/ locks/ washing machines. In addition, with growing penetration of smart electronics in strategic areas including Space, Defence and Nuclear energy, the need for Swadeshi Compute Hardware is crucial. It is not just the cost or embargo that drives this need, but also the dependence on external vendors, long term sustenance, quick enhancements to suit the ever-growing requirements, and most-importantly Security, which drives #AatmaNirbharta in Hardware domain, as the only option. Under Microprocessor Development Programme spearheaded by MeitY at C-DAC, IIT Madras and IIT Bombay, not only has the family of industry-grade Microprocessors been designed from scratch but also the compute ecosystem around them has been evolved as a step towards meeting India's future requirements.

To provide further impetus to the strong ecosystem of start-ups, innovators & researchers in the country, MeitY announced that Swadeshi Microprocessor Challenge will be made available by IIT Madras (शक्ति processors) and C-DAC (वेगा processors), and it will be powered by FPGA Boards of XILINX which is supported by CoreEL Technologies. This, in turn, will promote a culture of innovation and entrepreneurship, by taking up complex designs in the country and innovate frugal solutions around home-grown processor ecosystem that will cater to both, global and domestic requirements. The incubation to support the winning teams will be provided by an Incubator located at their geographical proximity, coordinated by Maker Village. This is a major step towards achieving the self-reliance in the hardware domain.

Out of 6000 teams in Swadeshi Microprocessor Challenge-2020, Three (03) teams from VESIT were selected in top 100 who made it to the semi-finals.

Each Semi-finalist will get a funding of Rupees 100000/- (one lakh) towards creation of start-up and project expenses.

The details of the three Semi-finalist teams from VESIT

Team 1:

Team 1: Calibration System for Nuclear Spectroscopy Applications

Mentor: Dr. P. P. Vaidya
H. O. D.
R&D and Dept. of Instrumentation Engineering

Prof. Asma Parveen I. Siddavatam
Assistant Professor
Dept. of Information Technology

Mr. Ajit Tukaram Patil
M.E. Student
Instrumentation and Control

Team 2:

Team 2: Swadeshi Battery Management System

Mentor: Prof. Mrugendra Vasmatkar
Assistant Professor
Dept. of EXTC Engineering

Mr. Paarth Arkadi
B.E. Student
Electronics Engineering

Mr. Vaibhav Ghaisas
B.E. Student
Electronics Engineering

Mr. Amogh Gajre
B.E. Student
Electronics Engineering

Mr. Shubham Singh
B.E. Student
EXTC Engineering

Team 3:

Team 3: High resolution Multichannel Analyzer for nuclear spectroscopy applications

Mentor: Dr. P. P. Vaidya
H. O. D.
R&D and Dept. of Instrumentation Engineering

Mrs. Lekshmi Ajesh Kaimal
Senior Research Fellow
Dept. of Instrumentation Engineering

Prof. Gopalakrishnan N
Assistant Professor
Dept. of Instrumentation Engineering

Team 1 :

Calibration System for Nuclear Spectroscopy Applications

Aim: To develop "स्वदेशी **Nuclear Pulse Generator**" that serves as a high-end Calibration System for Nuclear Spectroscopy Applications.
Objectives : To provide a fully operational **Sliding Pulse Generator** and **Precision Pulse Generator** and Calibration-Testing of high-resolution Nuclear Spectroscopy Analyzers such as Multichannel Analyzer (MCA).

Final Product : Portable workbench type Instrument with display and user control interface.
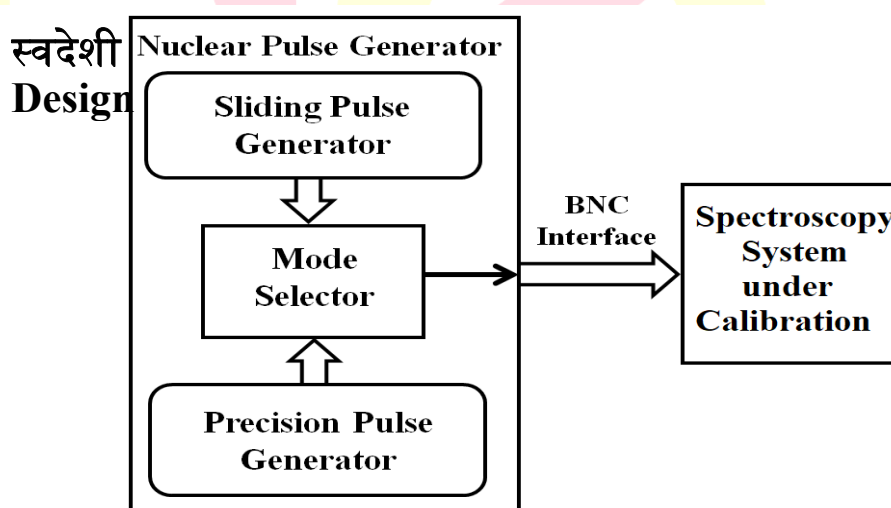
Applications: Nuclear Pulse Generator – Calibration and Testing of Nuclear Spectroscopy Systems such as Multi-Channel Analyzer (MCA), Calibration of high-quality Astrophysical Spectroscopy System, Calibrator for Analog to Digital Converter (ADC) , Precision Function Generator, Multi-featured Calibration and Test system , Generation of pulse amplitude distribution (Uniform Distribution, Gaussian Distribution etc.) for Stochastic Experiments.

The key players in global Nuclear Pulse Generator market :

- Berkeley Nucleonics Corporation (California, USA) , ORTEC (Tennessee, USA), FAST ComTec (Oberhaching, Germany)

Commercially available Nuclear Pulse Generator - Approx. $ 6000/- (USD)

Estimated component cost स्वदेशी Nuclear Pulse Generator - Approx. Rs. 40000/- (around $ 540/- USD

Team 2 : Swadeshi Battery Management System

Functioning BMS Board:

1. Functioning BMS pcb with Overcharge/discharge/current and short ckt protection, able to sense voltage,current,temperature,isolation faults, with Passive cell balancing/Active Cell Balancing
2. Focus on accuracy, precision and safety using Isolation and EMI filters

Algorithms: SOC (State of charge) estimation, SOH (State of Health) estimation, SOL (State Of Life) estimation

Physical Deliverables :

Hardware: AFE (Analog Front End Board) satisfying the above mentioned criteria for 12 cell Li-Po interfaced with the shakti processor; Current Sensor; Motor and motor driver as load, esp8266 for IOT connection; ADC modules
Algorithms: Calculation of SOC, and logging of data for SOH and SOL calculation

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Team 3 : High resolution Multichannel Analyzer for nuclear spectroscopy applications
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Aim: #Atmanirbhar Bharat in field of Nuclear Spectroscopy

Objectives : To develop a portable स्वदेशी high resolution Multichannel Analyzer for Nuclear Spectroscopy applications

- ➤ **Redesigning MCA with स्वदेशी**
- ➤ *Final Product : Battery operated MCA with portable nuclear radiation detector system and display*
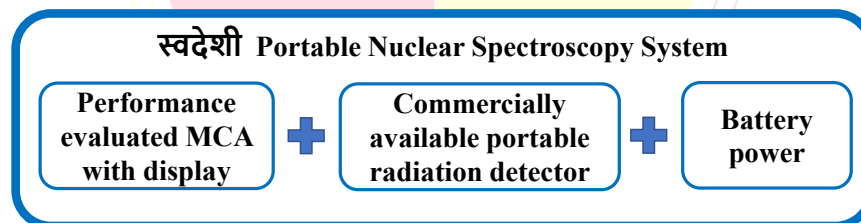
Business viability of proposed hardware Prototype

Applications :

**Nuclear physics research laboratories and institutes , Departments of the Atomic Energy Scrap yards , Naval ports , Academia, research industry, & pharmaceutical.
Pulse height analysis (PHA) - electronic, & optical spectral signal analyzing & instrument calibration
Cost comparison of proposed hardware prototype vis-à-vis similar solutions elsewhere.**

**The key players in global Multichannel Analyzer market :
AMETEK ORTEC, Amptek, Phywe Systeme, Multi Channel Systems, Berkeley Nucleonics, and XOS.**
Commercially available Multichannel Analyzer - Approx. 5-7 lacs
Component cost of Portable स्वदेशी Multi-Channel Analyzer - Approx. 1.5lacs

India Innovation Challenge Design Contest (IICDC)

About the contest: India Innovation Challenge Design Contest 2019 (IICDC), is organized by Department of Science and Technology (DST) and Texas Instruments (TI), anchored by NSRCEL@IIMB, powered by AICTE mission and supported by MyGov. IICDC is a unique platform where the brightest engineering minds can showcase their innovation skills. Participants receive the right tools and get strategic support to help them move ahead in the competition. A splendid opportunity to work with stalwarts like Texas Instruments and IIMB and build something that one is passionate about. Alongside you also earn your highly valuable certificates, cash prizes, and opportunity to sit in IIMB campus and build your company.

Registration: Registrations began in Mid-July and were open until the end of September. All team members must make an account on mygov.in in order to participate in the contest. Everyone receives a participation certificate after registration. **More than 18,000 teams had registered**.

Two (02) Projects/Teams of VESIT selected in Top 60 which qualified for the finals and are currently trained under NSRCEL@IIMB Launchpad.

Project Name : **Multi-Functional Detachable Applications For Drones**

Tema Name : Dronevolution

Mentor Name : Mrugendra M Vasmatkar

Tema Members : Siddhant Satam, Sai rane, Abhishek Desale,

 Deepak Mishra, Sanket Bhegde, Pranjali Thorat

> **SILVER MEDAL WINNER**
> **IN**
> **15th Inter-Collegiate/Institute/Department**
> **Avishkar Research Convention: 2020-21**
> **UNIVERSIY OF MUMBAI**

Description :

The project is not a drone but these are various applications which can be implemented on any land based or aerial drone which will make that drone capable of performing these applications. All the applications which will be developed will be focused towards various problems in our society which can be easily solved by implementing various types of drones for the applications.

The planned applications to be implemented on drones are: All Terrain Attachment, Pollution and weather monitoring and Mapping, LIDAR Based Mapping and Military Surveillance, Fire Fighting combined with Solar Panel Cleaning, Agricultural Watering with Pesticides Spraying, Secured Delivery Attachment

Project Name : EOG Drowsiness Detection System

Team Name : Wobuffet

Faculty mentor - Ms. Sangeetha Prasanna Ram

Team Members : Ashwin Pillay, Raj Anchan, Aditya Kale, Aniket Bhadricha, Saurav Vijendran, Yash Keskar)

Project / Product: A wearable device that will continuously monitor for instances of drivers being drowsy and if such a scenario occurs, alert them and/or trigger some safety mechanisms in the vehicle. Unlike conventional computer vision-based sleep detection systems, this wearable device is based on electrooculography-based detection and will:

● Detect the onset of drowsiness, which occurs before the driver actually falls asleep.
● Be independent of ambient conditions (like low light during night time).
● Have a minimal, lightweight and aesthetically pleasing design.
● Have a simple installation and maintenance procedure.
● Be an economical, standalone portable system.

Fig: EOG Circuitry
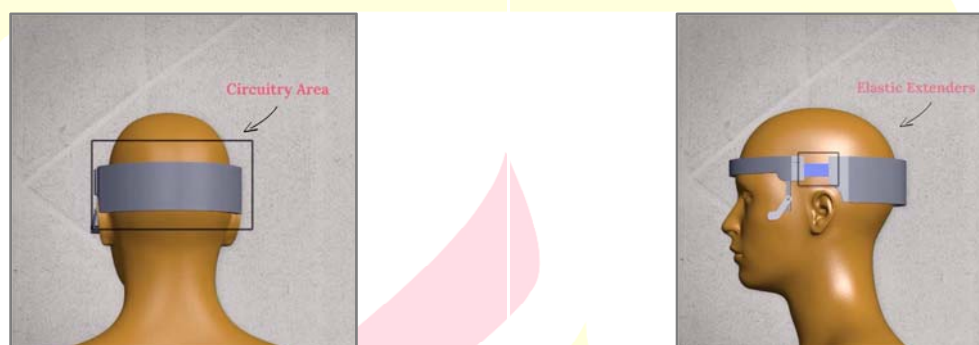
Fig: Headband

TOYCATHON 2021

Toycathon 2021 is a unique opportunity for Students, Teachers, Start-ups and Toy experts/professionals in India to submit their innovative toys/games concepts and win large numbers of prizes worth Rs. 50 lakhs. Winning Teams efforts will be made to commercialize the exceptional toy concepts will support from Industry and investors.

Dr.Abhay Jere addressing about Toycathon 2021

Ideas from VESIT have been shortlisted for the **Grand Finale of Toycathon 2021**.

- ## Team: Path Finder

  Electronics and Telecommunication Department

  Mentor : Mrs. Ashwini Sawant

  Title: To help identify children of age 8-13 years how different crops look like. 2. To provide keyboard specially for visually impaired children which will help experience and learn them shapes of different alphabets and braille along with pronunciations

- ## Team : Code Linguistic,

  Computer Engineering department

  Mentors: Mrs. Priya R L, Mrs. Mannat Doultani

  Title: Ethnicity of India: Diversity in culinary practices. ववधधekyam Bharat

- **Team : Saarthi,**

  Electronics and Telecommunication department
  Mentor: Mr. Mrugendra Vasmatkar
  Title : Rediscovering India!!

UNNAT BHARAT ABHIYAN

Four (4) Unnat bharat abhiyan teams sent proposals for villages (Aamgaon,Ambiste Kh,Gargaon and Aapti) under "Technology development proposals" during academic year 2020-2021. Estimated costing of each proposal was Rs.1,00,000.

Currently VESIT received Rs.50,000,- as a sanctioned fund on 01/06/2021 for the proposal "Surya Sakshamta: Pragati Ka Sulabh Marg". Three(03) proposals are still in process.

Title of the project: Surya Sakshamta:

Village where it is to be implemented: Ambiste Kh, Tahsil- Vada, Dist- Palghar, Maharashtra, India.

Team members of UBA team:Dr.Gresha Bhatia,Mrs.Indu Dokare and Dr.Sushil

Co-ordinator of UBA team:Mrs.Manisha Joshi.

Pragati Ka Sulabh Marg Village where it is to be implemented: Ambiste Kh, Tahsil- Vada, Dist- Palghar, Maharashtra, India Brief description of the problem: Unnat Bharat Abhiyan is a flagship programme of the ministry of Human Resource Development, with the intention to enrich India. Under this scheme, Vivekanand Education Society's Institute of Technology, Chembur, Mumbai, has adapted a village named- Ambiste Kh, Tahsil- Vada, DistPalghar, Maharashtra. For developing a village, it is necessary to promote development of rural areas based on local resources and decentralized, eco-friendly technologies so that the village can fulfill its needs locally. In this village, a separate team was assigned to collect the data from every house in the village. During the village survey, it was identified that there's a need to improve lighting during night time, which is a reason for many issues. The Baseline Survey has identified that non availability of street lights and insufficient power supply are the major issues in the adopted villages. Solar energy is a best suited renewable source of energy in this region because the average temperature of adopted villages will be ranging from 26 degrees Celsius to 40 degrees Celsius in a year. Solar energy is a major renewable energy source with the potential to meet many of the challenges facing the country. There are many reasons to promote its share in the energy market. This power source is increasing in popularity because it is versatile with many benefits

to people and the environment. It was also identified that the village already had a few solar street lights, but those were not functioning properly. Hence, it was decided to facilitate the solar lights in certain areas of the village to improve the security of the villagers.

VESIT-IIC Receives 4.5 Star Rating

Institute Innovation Council(IIC) VESIT in an instance of absolute prestige has been awarded a 4.5 Golden Star Rating for the academic year 2019-20. The rating was awarded for undertaking various activities prescribed by the Innovation Cell under the Ministry of Education to promote and support Innovation and Start-up on the campus. IIC had conducted various events including workshops, webinars, competitions, and numerous others for student skill development.

Workshop on Intellectual Property Rights(IPR) and IP Management for Startup organized by VESIT IIC in Association with VESIT IQAC on 3 April 2021

The workshop is for startups which gives detailed information about IPR and IP Management and rules in

India and other countries regarding IPR and IP. The speaker of the workshop was Adv. Anand Mahurkar, Founder Partner, AM LEGAL Associates. Total 121 students & 24 faculty members attended the workshop.

Webinar on "Inception, Irrigation, Harvest & Innovation need to build Aatma-nirbhar India"

VESIT IIC in association with Research Forum and IQAC held a webinar on "Inception, Irrigation, Harvest & Innovation need to build Aatma-nirbhar India" on 1st May 2021 at 11:00AM on Google meet.

Speaker Mr. Amit Rambhia is the Chairman and Managing Director of PANACHE DIGILIFE LTD, India's leading one stop ICT hub specialized in designing, manufacturing and distribution. Mr. Amit Rambhia with over 20 years of experience is an innovative and self-driven man, his dedication and hard work is an inspiration to many new entrepreneurs and has instilled his success in the field of business.

He is an accomplished MBA – IIM Indore with Bachelor's Degree in Computer Engineering from University of Mumbai. **He is distinguished alumni of VESIT graduate from Computer Engineering.**

Mr. Amit has been recognized amongst The Most Influential Marketing Leaders by The World Marketing Congress.

Mr. Amit Rambhia started the session with the role of Agriculture in India and made an analogy between agriculture and technology. Keeping the VESIT research motto in picture he explained where VESIT stands and how the quality research and innovation can be improved in our campus.

He explained how to work towards achieving novel solutions to critical problems and needs in the field of engineering. With the help of a video titled "Minimal Fab Changes the World" he showed the importance of technology and how it is making human life easy and healthy.

Mr. Amit Rambhia's PANACHE DIGILIFE LTD selected under production-linked incentive (PLI) Scheme

The Ministry of Electronics and Information and Technology (MeitY) has announced that it has approved 14 companies under the production-linked incentive (PLI) scheme for IT hardware. **Mr. Amit Rambhia's** PANACHE DIGILIFE LTD is one among 14 approved companies.

In next 4 years, the approved companies under the PLI Scheme for IT Hardware are expected to lead to a total production of more than INR 1.61 lakh crore

A total of **59** faculty members from VESIT attended the webinar
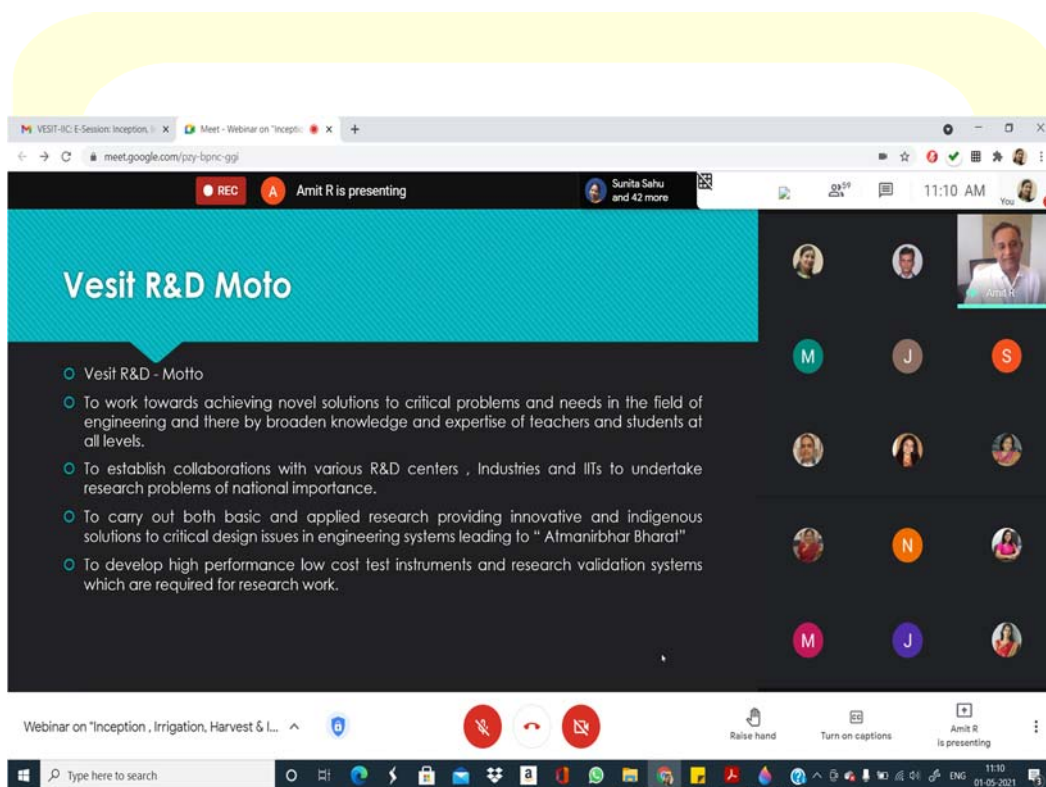
APPLICATIONS RECEIVED FOR COMMERCIALIZATION OF PROJECTS

VESIT called applications for commercialization of projects from faculty. We have received 3 applications.

1. Applicant: Prashant Kanade, Asst. Professor, Computer Engineering

Title of the Project: Green Credit Management System

Project category: Process and Service

Details of the project:

Project aims to record the contribution added by a person or an organization towards a green environment. All green credits will be recorded and reward points will be credited to persons or member organizations accounts. Few activities such as sending waste for recycling, segregation of plastic waste, managing the e-waste as well as insisting on purchasing environmentally friendly products. The project will keep track of all green credits and also validate the same.

Uniqueness / innovativeness as compared to the similar existing product. This is one of the unique ideas that will be implemented along with the Second Year students during the summer internship program of AY 2020-21. Similar concept is popular in Europe and America but not very popular in Asia Pacific.

2. Applicant : Dr. Nadir Charniya & Dr. Anjali Yeole

Title of the Project: Automated Crowd Management in Bus Transport Services

Project category: Product

Details of the project:

Problem Statement:

This project intends to help the commuters to know about the live crowd density in a particular bus which will be displayed on the bus stop and depending on that they can either wait for the next bus or get into the same bus or look for another bus or an alternative mode of transport to reach their destination in time.

This will also enable comfortable travelling for senior citizens, women, and children.

Figure 1   Current Scenario of Overcrowded Buses

3. Applicant : Mrs. Manisha Joshi

Title of the Project: SHOE DISINFECTOR USING UV LIGHT

Project category: Product

Details of the project:

This product will disinfect the shoe sole from bacteria using UV light radiation. The most unique factor of our project is if the person is not wearing shoes then the system will not start due to which the person present on the platform will not be exposed to UV lights that makes the system safe for humans. Basically, the model will look like a Weighing machine.

Disinfection Model of Proposed System

PROJECT SWECHCHHA

On 18th December 2020, **Project Swechchha** was launched and a ceremony was conducted for the same. Project Swechchha is a "Public-Private-User Participatory Model" proposed for monitoring of Operation and Maintenance of Public Toilets. Project Swechchha is conducted by the Department of Information Technology of VESIT with **Municipal Corporation of Greater Mumbai** as a knowledge partner. The CSR- Financial Partner is **Star Union Dai-ichi Life Insurance Co. Ltd. (SUD Life)** who proposed to pro- vide financial assistance of Rupees 24 lakhs for the project VESIT-IT Swechchha.

The objective of project Swechchha is to develop a system/mechanism which will help in collecting as well as upgrading the dynamic field and user data/information in a collaborative way between MCGM, CBOs and the users of CTs and PTs. The tools/mechanism are an IT-based solution - Web Portal and Mobile App.

The project will be routed through 4 Phases:

Phase-1: Data gathering (User, CT and PT) in the Physical form and verification of the same.

Phase-2: Digitization of the data/Feeding the data to the system

Phase-3: Training for the stakeholders

Phase-4: Data Analytics, report generation, hand-holding and support

The guests of the ceremony were **Mr Gnana William**: Chief Internal Auditor of SUD Life Insurance Company Limited and Trustee of SUD Life Foundation, **Mr Abhay Tiwari**: Chief Actuary and Joint President of SUD Life Insurance Company Limited, **Mr Rakesh Kumar**: Company Secretary of SUD Life Insurance Company Limited and Managing Trustee of SUD Life Foundation, **Mr Rajesh Mourya**: Manager, CSR, SUD Life Insurance Company Limited, **Mr Anand Jagtap**, Ex MCGM - OSD Slum Sanitation Program, Advisor - Project Swechchha, he has worked for the last 23 years in informal human settlements as well as **Dr. (Mrs.) J.M Nair**, Principal-VESIT, **Dr. (Mrs.)Vijayalakshmi**, Vice Principal VESIT and **Dr. (Mrs.) Shalu Chopra**, Head of Department of Information Technology.

AICTE SPONSORED ONLINE STTP ON GREEN IOT

The third edition of the **AICTE** (All India Council for Technical Education) sponsored online **Short Term Training Program** (STTP) on **Green IoT** was organized by the Department of Electronics and Telecommunication Engineering in collaboration with the Department of Electronics Engineering and the Department of Instrumentation Engineering in association with VESIT Internal Quality Assurance Cell (VESIT-IQAC) and VESIT Institution's Innovation Council (VESIT-IIC) on 7th-12th December 2021.

Course Objectives:
1. Acquainting participants with the technology of Internet of things (IoT) and exposure to recent trends in IoT.
2. Introducing and exploring the technologies supporting Green IoT
3. Exposure to security and privacy in IoT and Green initiative.
4. Demonstrating Hardware and Software platforms and tools for IoT.
5. Providing exposure and demonstration on IoT applications and Artificial Intelligence (AI) based predictive analytics using IoT.

Course Outcomes:
1. Good understanding of IoT Technology, emerging trends in IoT and various concept and features of Green IoT technology.
2. Comprehend and apply different hardware and software tools used for implementation of IoT.
3. Good understanding of cloud platform for IoT, security and privacy in IoT, and Green initiatives towards IoT.
4. Apply predictive data analytics with the fusion of AI and IoT using Cloud and programming in python.
5. Develop IoT applications with the aid of IoT tools and AI tools.

Sr. no.	Speakers	Topics covered
1	**DR. ABHAY KSHIRSAGAR,** V E S INSTITUTE OF TECHNOLOGY, CHEMBUR, MUMBAI	**WSN, IoT, Levels of IoT, Applications od IoT.**
2	**DR. Y SRINIVASA RAO,** SADAR PATEL INSTITUTE OF TECHNOLOGY, MUMBAI	**IoT and Case studies on biomedical applications of IoT**
3	**DR. ANJALI YEOLE,** V E S INSTITUTE OF TECHNOLOGY, CHEMBUR, MUMBAI	**Security in IoT, COOJA Simulator**
4	**Mr. SHASHANK KARMARKAR,** RADISYS INDIA, MUMBAI	**IoT analytics**
5	**MR. DHANANJAY JADHAV,** SIEMENS LTD, MUMBAI	**IoT HW, Edge technology**
6	**MR. ANURAG CHUGH,** TARANA WIRELESS, PUNE	**IoT protocols and Applications**
7	**DR.SAURABH N. MEHTA,** VIDYALANKAR INST OF TECHNOLOGY, WADALA, MUMBAI	**Open source tools for IoT and HW**
8	**MR. N. GOPALAKRISHNAN,** V E S INSTITUTE OF TECHNOLOGY, CHEMBUR, MUMBAI	**Intelligent transport design AIS140**
9	**MR.NISHANT MANOJ SINGH,** TECHNICAL TRAINER, MUMBAI	**Cloud computing and hands-on training**
10	**MR. AMIT RAMBHIYA,** PANACHE DIGILIFE LTD, MUMBAI	**IoT in industrial applications**
11	**DR. NADIR N CHARNIYA,** V E S INSTITUTE OF TECHNOLOGY, CHEMBUR, MUMBAI	**Fusion of IoT with Machine learning and Deep learning**

AICTE Sponsored **Short Term Training Program (STTP)** On **"BlockChain and its Application"**

VESIT received a grant of **Rs. 403333 /-** (Rupees Four Lakh Three Thousand Three Hundred Thirty Three Only) from **AICTE** for conducting **Short Term Training Program** On **"BlockChain and its Application"** **Dr. M Vijayalakshmi** was the co-ordinator of the STTP. The STTP was planned to conduct in **4 Phases (Online)** and the details of the phases are as follows:

- Phase - I : (29th March to 3rd April 2021)
- Phase- II : (26th April - 1st May 2021)
- Phase - III : (12th July - 17th July 2021)
- Phase - IV : scheduled in the 2nd week of August 2021.
- Phase - I : **41 candidates** qualified the Quiz and there were participants from Maharashtra, Karnataka & Tamil Nadu
- Phase - II- **87 candidates** qualified the Quiz and there were participants from Tamil Nadu, Uttar Pradesh, Madhya Pradesh & Maharashtra.
- Phase III - **51 candidates** qualified the Quiz and there were participants from Tamil Nadu, Uttar Pradesh, Madhya Pradesh, Andhra Pradesh, Haryana, Gujarat & Maharashtra.

The schedule for the three phases is attached below.

SCHEDULE for Phase - 1 : Introduction to Blockchain Technology (29th March to 3rd April 2021)

Date / Day	2:00 pm - 3:00 pm	3:00 - 3:50 pm	4:00 - 5:00 pm	5:00 - 6:00 pm
29th March 2021 (Monday)	**Inauguration Function Cryptographic Primitives used in Blockchain** Dr. Sanjeet Kumar Nayak (IIIT Kanchipuram)		**Blockchain Architecture Design** Dr. Shashidhar R (Bennett University)	**Hands-on Session -1 Installation of Cryptocurrency and performing transactions** Dr. Shashidhar R (Bennett University)
30th March 2021 (Tuesday)	**Introduction to Bitcoin Mining** Dr. Shashidhar R (Bennett University)	**Introduction to Consensus Protocols** Dr. Shashidhar R (Bennett University)	**Hands-on Session - 2 Creating Private Blockchain Network using Go Ethereum** Dr. Shashidhar R (Bennett University)	**Hands-on Session - 3 Importing Ethereum accounts using Metamask** Dr. Shashidhar R (Bennett University)
31st March 2021 (Wed)	**Introduction to Smart Contracts** Dr. Shashidhar R (Bennett University)	**Hands-on Session 4 Creating Smart Contracts in Remix IDE** Dr. Shashidhar R (Bennett University)	**Introduction to Solidity Programming** Dr. Shashidhar R (Bennett University)	**Hands-on Session - 5 Solidity Programming** Dr. Shashidhar R (Bennett University)
1st April 2021 (Thur)	**Advanced Solidity Concepts** Dr. Shashidhar R (Bennett University)	**Hands-on Session - 6 Ethereum Virtual Machine & Public Test Networks** Dr. Shashidhar R (Bennett University)	**Blockchain Use Cases** Dr. Sanjeet Kumar Nayak (IIIT Kanchipuram)	**Hands-on Session - 7 Implement various Blockchain Use cases** Dr. Sanjeet Kumar Nayak (IIIT Kanchipuram)
2nd April 2021 (Friday)	**Complete Blockchain Developer Tool Kit** Dr. Shashidhar R (Bennett University)	**Hands-on Session - 8 Developing & Compiling Contracts using Truffle** Dr. Shashidhar R (Bennett University)	**Hands-on Session - 9 Contract Migration & Deployment of Scripts** Dr. Shashidhar R (Bennett University)	**Hands-on Session - 10 Testing Contracts using Truffle** Dr. Shashidhar R (Bennett University)
3rd April 2021 (Sat)	**Introduction to Decentralized Applications (DAPPS)** Ms. Sumithra V (Honeywell, Bangalore)	**Hands-on Session -11 Creating Front End Applications** Ms. Sumithra V (Honeywell, Bangalore)	**Hands-on Session -12 Running & Testing Decentralized Applications** Ms. Sumithra V (Honeywell, Bangalore)	**Online Test on Blockchain Valedictory Function and Feedback Session**

SCHEDULE for Phase- 2 :

Blockchain Platforms & Applications (26th April - 1st May 2021)

Date / Day	2:00 pm - 3:00 pm	3:00 - 3:50 pm	4:00 - 4:50 pm	5:00 - 6:00 pm
26th April 2021 (Monday)	**Inauguration Function** **Introduction to Bitcoin Scripts** Dr. Shashidhar R (Bennett University)		**Introduction to Bitcoin Legal Issues** Dr. Shashidhar R (Bennett University)	**Understanding the Mechanics of Bitcoin** Dr. Shashidhar R (Bennett University)
27th April 2021 (Tuesday)	**Research Trends in Blockchain Healthcare** Dr. Shashidhar R (Bennett University)	**Research Trends in Blockchain Cyber Security** Dr. Shashidhar R (Bennett University)	**Research Trends in Blockchain IoT & AI** Dr. Shashidhar R (Bennett University)	**Research Trends in Blockchain 5G Networks** Dr. Shashidhar R (Bennett University)
28th April 2021 (Wednesday)	**Introduction to building Decentralized Applications on Blockchain** Dr. Shashidhar R (Bennett University)	**Hands-on Session - 1 Blockchain DApp for Selling & Purchasing products using cryptocurrencies** Dr. Shashidhar R (Bennett University)	**Hands-on Session - 2 Blockchain for Identity Management** Dr. Shashidhar R (Bennett University)	**Hands-on Session - 3 Blockchain for Voting System** Dr. Shashidhar R (Bennett University)
29th April 2021 (Thursday)	**Introduction to Hyperledger** Mr. Vikas Kumar / Mr. Jetso Analin (Dvara SmartGold / KubixSquare)	**Hands-on Session - 4 Hyperledger Basics** Mr. Vikas Kumar / Mr. Jetso Analin (Dvara SmartGold / KubixSquare)	**Introduction to Chaincode** Mr. Vikas Kumar / Mr. Jetso Analin (Dvara SmartGold / KubixSquare)	**Hands-on Session - 5 Using Chaincode to Read the History of Assets** Mr. Vikas Kumar / Mr. Jetso Analin (Dvara SmartGold / KubixSquare)
30th April 2021 (Friday)	**Hyperledger Fabric** Mr. Vikas Kumar / Mr. Jetso Analin (Dvara SmartGold / KubixSquare)	**Hands-on Session - 6 CouchDB as a State Database** Mr. Vikas Kumar / Mr. Jetso Analin (Dvara SmartGold / KubixSquare)	**Hands-on Session - 7 Programmatic Access Control: Client Identity** Mr. Vikas Kumar / Mr. Jetso Analin (Dvara SmartGold / KubixSquare)	**Hands-on Session - 8 Chaincode Specifics & Unit Testing** Mr. Vikas Kumar / Mr. Jetso Analin (Dvara SmartGold / KubixSquare)
1st May 2021 (Saturday)	**Online Test on Blockchain**	**Valedictory Function and Feedback Session**		

SCHEDULE for Phase - 3 :

Decentralized Application Design & Development using Blockchain (12th -17th July 2021)

Date / Day	2:00 pm - 3:00 pm	3:00 - 3:50 pm	4:00 - 4:50 pm	5:00 - 6:00 pm
12th July 2021 (Monday)	**Inauguration Function Blockchain & Hyperledger Recap** Mr. Jetso Analin (Blockology)	**An Overview of Hyperledger Fabric** Mr. Jetso Analin (Blockology)	**Hands-on Session - 1 Interaction with HL Fabric CA from an Application** Mr. Jetso Analin (Blockology)	**Hands-on Session - 2 Events Processing & Private Data Collections** Mr. Jetso Analin (Blockology)
13th July 2021 (Tuesday)	**Hyperledger Chaincode Development using GoLang** Mr. Jetso Analin (Blockology)	**Hands-on Session - 3 Chaincode Instance Registration** Mr. Jetso Analin (Blockology)	**Functions in Chaincode Interface** Mr. Jetso Analin (Blockology)	**Hands-on Session - 4 Logging Chaincode Functions & Controlling the log levels** Mr. Jetso Analin (Blockology)
14th July 2021 (Wednesday)	**Introduction to Chaincode Stub Interface** Mr. Jetso Analin (Blockology)	**Functions in Chaincode Stub** Mr. Jetso Analin (Blockology)	**Hands-on Session - 5 Getting Transaction Proposal Information in GoLang Framework** Mr. Jetso Analin (Blockology)	**Hands-on Session - 6 Testing GoLang Framework** Mr. Jetso Analin (Blockology)
15th July 2021 (Thursday)	**Introduction to InterPlanetary File System (IPFS) with Workflow** Mr. Soham S Zemse (Blockology)	**Hands-on Session - 7 IPFS Installation** Mr. Soham S Zemse (Blockology)	**Hands-on Session - 7 Getting Started with IPFS - JS** Mr. Soham S Zemse (Blockology)	**Hands-on Session - 8 Running Javascript project using IPFS** Mr. Soham S Zemse (Blockology)
16th July 2021 (Friday)	**Introduction to Blockchain-as-a-Service** Mr. Jetso Analin (Blockology)	**Hands-on Session - 9 Azure Blockchain Solutions** Mr. Jetso Analin (Blockology)	**Scalability issues in Blockchain** Mr. Jetso Analin (Blockology))	**Hashgraphs vs Blockchain** Mr. Jetso Analin (Blockology)
17th July 2021 (Saturday)	**National Education Policy Session** Dr. T. Rajani Mangala (VESIT)		**Online Test on Blockchain**	**Valedictory Function and Feedback Session**

ATAL Sponsored One Week Faculty Development Program on "Electric Vehicles"

VESIT Renaissance Cell (In association with Department of EXTC Engineering, Instrumentation Engineering, VESIT-IIC and IQAC) of VESIT, Mumbai, Maharashtra organised *AICTE Training And Learning Academy (ATAL) Sponsored One Week Faculty Development Program (online) on "Electric Vehicles" (5th July to 9th July 2021)*

ABOUT FDP

The electric vehicle industry is a growing industry in India. The central and state governments have launched schemes and incentives to promote electric mobility in the country and some regulations and standards are also in place. Electric vehicles are the future of transportation. Electric mobility has become an essential part of the energy transition and will imply significant changes for vehicle manufacturers, governments, companies, and individuals. There are challenges like lack of charging infrastructure, high initial cost, and lack of electricity produced from renewable energy. Still, e-commerce companies, car manufacturers, app-based transportation network companies, and mobility solution providers have entered the sector and are slowly building up electric car capacity and visibility. Also, Electric Vehicles (EV) are one of the growing popular options for people who are conscious about environmental pollution, global warming, and health issues. The global share of Electric vehicles will increase from 2% in 2020 to 22% in 2030.

The ability to deliver the technical information of this major area to the right audience at the right time is a valuable skill. This Faculty Development Program (FDP) is designed to enrich and augment the knowledge of the participants and provide a basic platform to carry out research in these fields which will further bolster the development of the country.

OBJECTIVE:

Electric Vehicles have completely different systems & architecture compared to the petrol or diesel vehicles. EV is a very complicated system than ICVs.The key objective of this faculty development program is the dissemination of the technical skills and knowledge in the concerned field among academicians and researchers and thereby reforming our nation to adapt itself to the new era of vehicular transportation by its own developed skills. This training program intends to impart a broad theoretical, practical, and design background in the area of Electrical Vehicles. It investigates the vivid opportunities available in EV sector, that one needs to have a deeper understanding of the system- its opportunities, challenges and benefits, industrial perspectives, issues and trends in EV Protection schemes, Electric Vehicle Charging infrastructures and Magnetics Design etc.

Schedule of the program was as follows:

Day 1, Monday (05/7/2021)		
1	9.00 am to 11.00 am	Inauguration, Welcome Address Topic: Introduction to electric vehicle. Speaker**: Mr. Rakesh Tyagi** Customer Service Manager, AVL India Private Limited
2	11.15 am to 1.15.pm	Topic: Trends & Opportunities for EV's in emerging markets, especially last mile transportation. Speaker: **Mr. Christie Fernandez,** Founder: Sooorya EV Pte.Ltd., Singapore

3	2.00 pm to 4.00 pm	Topic: Development of charging protocols, different types of chargers available and types of EV supported by different chargers. Speaker: **Ms. Bhavana Shrivastva,** Head- Client Services, Magenta Power and Mr. Prasad Gangurde, Head – Technical Sales , Magenta Power
Day 2, Tuesday (06/7/2021)		
1	9.00 am to 11.00 am	Topic: Motor Concept Design using JMAG FEA Tool. Speaker: **Mr. Sadeep Sasidharan,** Sr. Application Engineer for JMAG Team in PWSIM Engineering Solutions Pvt. Ltd, Bangalore.
2	11.15 am to 1.15.pm	Topic: Testing of battery, E-motor and inverters, Speaker: **Mr. Rakesh Tyagi** Customer Service Manager, AVL India Private Limited
3	2.00 pm to 4.00 pm	Topic: Modelling and simulation of Electric vehicles using Matlab/ Simulink. Speaker: **Dr. M. Siva Kumar.** Engineer at SCSVMV university
Day 3, Wednesday (07/7/2021)		
1	9.00 am to 11.00 am	Topic: Electric Vehicle Topology and Vehicle Modelling. Speaker: **Mr. Prasanth Pathiyil,** CoE Electrification | Bosch |Mahindra
2	11.15 am to 1.15.pm	Topic: DC Fast Charging Strategies for Electrified Transportation and Autonomous E-mobility. Speaker: **Dr. Sheldon Williamson,** Professor with the Smart Transportation Electrification and Energy Research Group, Department of Electrical, Computer, and Software Engineering, University of Ontario Institute of Technology Oshawa, ON, Canada.
3	2.00 pm to 4.00 pm	Topic: Smart Health-Conscious Battery Management Systems for Transportation Electrification and Autonomous E-mobility. Speaker: **Dr. Sheldon Williamson,** Professor with the Smart Transportation Electrification and Energy Research Group, Department of Electrical, Computer, and Software Engineering, University of Ontario Institute of Technology Oshawa, ON, Canada**.**

		Day 4, Thursday (08/7/2021)
1	9.00 am to 11.00 am	Topic: Energy management and measurement aspects of EV. Speaker: **Mr. Vipinkumar Pawar,** Phd Scholar, University of Mumbai Co-Ordinator, ISRO-IIRS Outreach Program, ISRO, Dehradun, India Reviewer, Giscience & Remote Sensing, Taylor & Francis Reviewer, IEEE, Geoscience and Remote Sensing Reviewer, Elsevier Remote Sensing Research Associate, Institute of Investigation in Remote Sensing & GIS, Netherland
2	11.15 am to 1.15.pm	Topic: Qualitative Analysis of batteries for EV applications. Speaker: **Mr. Gajanan Kulkarni,** KPIT technologies LTD, SME Electrical Systems
3	2.00 pm to 4.00 pm	Topic: EMI / EMC aspects related to Electrical Vehicles. Speaker: **Dr. Shreenivas Jog** Professor (E&TC) at Dr. D. Y. Patil Institute of Tech. Pimpri, Pune, Senior Member IEEE and past Chairman IETE Pune, Member-Society of EMC Engineers India.
	Day 5, Friday (09/7/2021)	
1	9.00 am to 11.00 am	Stress Management/ Yoga / Meditation. Speaker: **Mrs. Pallavi Pawar,** Yoga Trainer
2	11.15 am to 1.15.pm	Topic: Converting an ICE vehicle to an EV- A manufacturer's perspective- A case study Speaker: **Mr. Yogesh Soman,** Program Management Professional, Mahindra & Mahindra.
3	2.00 pm to 4.00 pm	ASSESSMENT AND VALEDICTORY FUNCTION

ATAL Sponsored One Week Faculty Development Program on '**Cyber Security**'

VESIT Renaissance Cell (In association with Department of Electronics Engineering, MCA and VESIT-IIC) of Mumbai, Maharashtra is organizing *AICTE Training And Learning Academy Sponsored One Week Faculty Development Program (Online) on Cyber Security* (5th July to 9th July 2021)

ABOUT FDP

Cyber security program is to promote research aspects in internet security, familiarize with tools available for network scanning ,identify and synthesize needs for Web, Mobile and Wi-Fi security techniques, share information and practical awareness for CyberBullying and Ethical Hacking. The FDP will start with an overview of cyber security, information security and cryptography aspects to help the audience understand the importance of these aspects in real life scenarios. The FDP will leverage the power of Blockchain and its applications. This FDP is planned into two parts: technical session and hands-on sessions.

Objective

Increased Internet penetration for applications such as e-Governance, e-Commerce, e-Banking, digital payments, e-Learning, smart cities etc, has resulted in an exponential rise in sophisticated attacks on Information technology (IT) infrastructure. This has led to Cyber Security as an important aspect to secure our computers and networks. Both government & industry are becoming the victims of cyber criminals, including companies working in security technology. Cyber Security is going to be a much more serious problem in the coming years. Hence it becomes more important & essential to be aware of the challenges and methods to meet the new age attacks.

Schedule of the program was as follows:

Session No.	Time	Activity/ Session by
Day 1, Monday (05/7/2021)		
1	9.30 to 11.00 am	Inauguration, Welcome Address Topic: Security Development Life Cycle Speaker: **Dr. Soumyo Maity, Technical Lead for Security Development Lifecycle, Dell Technologies**

2	11.15 am to 1.15.pm	Topic : Security Development Life Cycle Speaker: **Dr. Soumyo Maity, Technical Lead for Security Development Lifecycle, Dell Technologies**
3	2.00 to 4.00 pm	Topic: Threat Intelligence Speaker: **Mrs Grace Abraham, Information Security Specialist**

Day 2, Tuesday (06/7/2021)

1	9.00 to 11.00 am	Topic: Web Security,WiFi Security Speaker: **Mr. Nilesh Dalvi, Ethical Hacking and Information Security Trainer, Infinity IT Academy**.
2	11.15 am to 1.15.pm	Topic: Ethical Hacking Speaker: **Mr. Nilesh Dalvi, Ethical Hacking and Information Security Trainer, Infinity IT Academy**.
3	2.00 to 4.00 pm	Topic: Mobile Security, Cyber Bullying Speaker: **Mr. Sukdev Katale, CTO & Security Analyst Lead, Lumiverse Solutions Pvt Ltd.**

Day 3, Wednesday (07/7/2021)

1	9.00 to 11.00 am	Topic: Blockchain Speaker : **Mr. Chintan Dave, Certified Blockchain Trainer and Solution Architect, AVII Technolabs Private Limited**
2	11.15 am to 1.15.pm	Topic: Blockchain Applications Speaker : **Mr. Chintan Dave, Certified Blockchain Trainer and Solution Architect, AVII Technolabs Private Limited**
3	2.00 to 4.00 pm	Topic: Handson session on Blockchain Speaker : **Mr. Chintan Dave, Certified Blockchain Trainer and Solution Architect, AVII Technolabs Private Limited**

		Day 4, Thursday (08/7/2021)
1	9.00 to 11.00 am	Topic: Cyber attacks on common man and it's mitigation **Speaker: Dr. Prashant Lokhande, Consultant Cyber Crime Branch, Navi Mumbai**
2	11.15 am to 1.15.pm	Topic: Cyber Forensic and Risk Assessment **Speaker: Mr. Aashish Panchwadkar, Cyber Consultant**
3	2.00 to 4.00 pm	Topic: Operational Technology Security **Speaker :Mr. Yogendra khaire , Security expert, Adani electricity**
		Day 5, Friday (09/7/2021)
1	9.00 to 11.00 am	Topic: Stress Management/Meditation **Speaker : Mrs. Pallavi Pawar, Yoga Trainer**
2	11.15 am to 1.15.pm	Topic: Cyber Laws **Speaker : Mr. Vicky Shah, Cyber Lawyer**
3	2.00 to 4.00 pm	Assessment and Valedictory Function

ARTIFICIAL INTELLIGENCE FOR HEALTHCARE

A 30 Hrs. Certificate course entitled Artificial Intelligence For Healthcare was jointly organized by VES College of Pharmacy & VESIT during 24th June 21 to 1st July 2021

Detailed schedule of course was as follows :

Sr. No	Date	Timing	Topic	Faculty In charge	Content
1	24th June 2021	10.00 AM – 11.30 AM	Introduction and Overview of the Course	Dr. M. Vijayalakshmi	Basics of AI (Artificial Intelligence) and ML (Machine learning) ● Introduction to AI ML ● Why is it important to Healthcare?
		11.45 AM - 01.15 PM	Basic Artificial Intelligence	Dr. M. Vijayalakshmi	● Problem solving search. ● Knowledge representation
		2.30 PM – 04.00 PM	Basic Artificial Intelligence	Dr. M. Vijayalakshmi	● Rule based systems and Planning. ● Probability and reasoning
2	25th June 2021	10.00 AM – 11.30 AM	Machine Learning - Basic Algorithms	Dr. Sujata Khedkar	● What is Machine Learning? ● Types of Learning ● Classification -Decision Tree, Bayesian Classifier, Regression
		11.45 AM - 01.15 PM	Machine Learning - Basic Algorithms	Dr. Sujata Khedkar	● Clustering – Kmeans, K-Medians, Hierarchical Clustering
		2.30 PM – 04.00 PM	Machine Learning - Basic Algorithms	Dr. Sujata Khedkar	● Frequent Pattern Mining
3	26th June 2021	10.00 AM – 11.30 AM	Machine Learning - Advanced Algorithms	Dr. Sujata Khedkar	● Support Vector Machines ● Introduction to Reinforcement learning
		11.45 AM - 01.15 PM	Machine Learning - Advanced Algorithms	Dr. M. Vijayalakshmi	● DBSCAN Mixture Models for Clustering ● Anomaly Detection
		2.30 PM – 04.00 PM	Introduction to Neural Networks and Deep Learning	Dr. Nadir Charniya	● Neural Networks – learning Models. ● Deep Neural Network

Since 1962

4	**28th June 2021**	10.00 AM – 11.30 AM	Deep Learning Algorithms and Applications	**Mrs Asha Bharambe**	● Convolution Neural Networks ● Recurrent Neural Networks and Natural Language Processing
		11.45 AM - 01.15 PM	Deep Learning Algorithms and Applications	**Mrs Sangeeta Oswal**	● Commonly Used and Advanced Neural Network Architectures ● Computer Vision
		2.30 PM – 04.00 PM	Internet of Things, mHealth and wearables in healthcare	**Dr. Nadir Charniya**	● Introduction to IoT, ● Process flow and Tools in IoT, Connected world ● Use cases, Remote Patient Monitoring
5	**29th June 2021**	10.00 AM – 11.30 AM	Internet of Things, ThingSpeak demo and Hands-on	**Dr. Nadir Charniya**	● IoT data series streaming and visualization on Cloud, ● Demonstration and hands-on using ThingSpeak and Google Colab platform.
		11.45 AM - 01.15 PM	Designing a Healthcare Machine Learning Workflow	**Dr. Sujata Khedkar**	● Common Sources of Healthcare Data ● Data available from Healthcare systems ● Data Pre-processing
		2.30 PM – 04.00 PM	Designing a Healthcare Machine Learning Workflow	**Dr. Sujata Khedkar**	● Handling unstructured healthcare data ● Creating analysis ready datasets-Electronic Health Records and AI ● Electronic phenotyping
6	**30th June 2021**	10.00 AM – 11.30 AM	AI Software and platforms for Health care applications	**Mrs Asha Bharambe**	● Overview of Data analytics tools like Python R. ● Statistical and Visualization tools
		11.45 AM - 01.15 PM	AI Software and platforms for Health care applications	**Mrs Sangeeta Oswal**	Open source healthcare.ai Framework
		2.30 PM – 04.00 PM	AI Software and platforms for Health care applications	**Mrs Sangeeta Oswal**	Healthcare datasets

7	1st July 2021	10.00 AM – 11.30 AM	Case studies and Future trends in AI Healthcare	Dr. M. Vijayalakshmi Mrs. Asha Bharambe	Several Actual AI applications can be introduced, and students can see the whole lifecycle of an AI in healthcare scenario
		11.45 AM - 01.45 PM	Case studies and Future trends in AI Healthcare	other faculty	Several Actual AI applications can be introduced, and students can see the whole lifecycle of an AI in healthcare scenario

PANEL DISCUSSION ON 'INNOVATION AND STARTUP ECOSYSTEM ENABLERS'

VESIT E-Cell organized **Panel Discussion** on 'Innovation and Startup Ecosystem Enablers' in association with VESIT - Institution's Innovation council and VESIT - Internal Quality Assurance Cell on 17th April 2021

Following Guest members were participated in the discussion

Dr. Hemang Shah, India Engineering, Lead (Startup, Innovation),

Qualcomm Technology, Licensing, India

Mr. Anand Mahurkar, Adv., IPR, AM, Legal Associates Pune

Mr. Pankaj Sikka, Incubation Centre Consultant,

Chief Visionary and Brand Strategist,Mumbai

Ms. Bhuvaneshwari Shankar, CA, Srividya Bhuwaneshwari and Associates, Mumbai

Mr. Rakesh Barai, Technology Head, Tyre Express, Mumbai

The objective of the event was to boost StartUp ecosystem in VESIT and to help VESITians in understanding fundamentals issues in Starting a Business. The event was conducted online using Google Meet platform between 11 am to 12:30 pm. Around 60 Students and Faculty members attended the event.

The discussion touched a great set of topics, a few of them are listed here.

Mr. Pankaj Sikka explained about the key points that an investor or a mentor looks for in a potential Startup. Adv. Anand Mahurkar pointed out importance of patents in Startup development and funding. CA Srividya Bhuvaneshwari commented on importance of paperwork and deeds between partners of a Startup. She also commented on legal aspects of these deeds and paperwork. Dr. Hemang Shah commented on how much further Studies will help Students if they want to pursue their own venture. Mr. Rakeshkumar Barai explained about the prerequisites to seek the funding and its different options.

SEMINAR ON **NATIONAL EDUCATION POLICY 2020**

New **National Education Policy** (NEP), 2020 with an aim to introduce several changes in the Indian education system from the school to college level. In order to discuss the highlights and implications of NEP 2020, VESIT organised a webinar for faculty members on **'National Education Policy 2020'** in association with **VESIT-Internal Quality Assurance Cell** (IQAC) and **Institution's Innovation Council** (IIC). It was a two hours webinar conducted on 22nd December 2020 from 3:00 pm to 5:00 pm.

The resource person for the day was **Prof. T Shakila Shamshu.** Officer on Special Duty (New Education Policy) in the Department of Higher education, Government of India.

Seminar on National Innovation & Startup Policy (NISP) (30/01/2021)

The **Institution's Innovation Council (IIC)** in association with **Internal Quality Assurance Cell (IQAC)** organized e-sessions on **'Identifying Intellectual Property Component at an early stage of Innovation'** and **'National Innovation and Startup Policy'** on 30th January 2021. Interested participants had to register via a Google Form link which was made available on the respective posters.

National Innovation and Startup Policy (NISP)
The NISP, which was launched on September 11, 2019, for students and faculty has been constantly intending to promote Innovation and Entrepreneurship throughout the country. **Prof. Kiran T. Talele** was the speaker for this webinar. It took place from 11:00 am to 12:30 pm.

Mr. Talele stressed that the idea of startup culture should be inculcated in the minds of students during their academic phase itself. Research phase, Prototype development and then finally product development are the steps involved in innovative startups. Development of technology and commercialization of technology and product , both are equally important for successful entrepreneurs.

Seminar on Intellectual Property Rights (IPR) (30/01/2021)

Identifying Intellectual Property Component at an early stage of Innovation

Dr. Deepak Mehra, Innovation and IPR Catalyst was the speaker for this session which took place from 2:00 to 3:30 p.m. He holds a PhD in Industrial Innovation and is the founder of the company 'VIDURNEETI' which is known for Patent, Trademark & GI Consultancy.
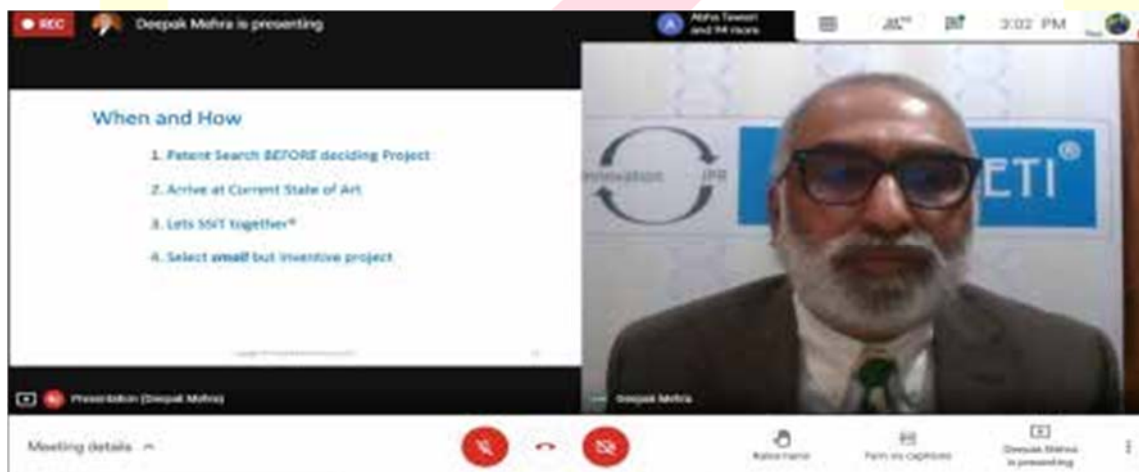
Dr.Deepak Mehra explaining IPR

Innovation comprises several kinds of Intellectual Property - be it a product or a process innovation, or anoriginal shape and appearance, a material composition or a computer program. Each kind of Intellectual Property - Patent, Design, Integrated Circuit, Biodiversity and copyright, that brings technical advancement, needs to be understood so it can be appropriately identified and refined for valuation and GLOBAL protection. An early understanding is expected to result in fast tracking of commercialization of Innovation and corresponding IPR.

6 Weeks 'Personal and Professional Achievement' program

conducted to improve upon linguistic and soft skills of students. 15th February 2021 with its first session led by Padmaja Borwankar

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INSTRU – INTERNATIONAL TALK SERIES

Instru-international talk series was an interactive talk series organized by the Department of Instrumentation in association with VESIT-IQAC and VESIT-IIC. This 6 day talk series from 7th - 12th September 2020 covered a wide array of topics like machine learning, silicon designing and career prospects in fields such as biomedical engineering, sales and marketing, from International Experts and Alumni.

THE FIRST SESSION of the Instru- International Talk Series was kickstarted on the topic of **Machine Learning and how to get a job in it** on 7th September 2020 at 09:00AM. In this session our alumnus from 2013 batch of Instrumentation Branch, **Mr. Tanvir Shaikh** currently working as a Lead Data Scientist at the Finance Department, Genentech/ Roche, USA presented us with a very informative Session on Machine Learning and how we can get jobs related to Machine Learning. He gave us a basic overview on how Machine Learning works in an easy-to-understand way and also told how it can do different things/ outcomes and also predict future outcomes.

THE SECOND SESSION was based on the topic of **Introduction to Silicon Design Process from Thought to Chip** on 8th September 2020 at 09:00AM. This session was addressed by **Mr. Avinash Somanathan** from the 2015 batch of Instrumentation Branch. Mr. Avinash currently works at Samsung Electronics as a GPU Physical Design Engineer. In this session he explained how a chip is made from thought to a final working device very beautifully. He explained the thought process behind the design and making of the chip be it a Microcontroller or a Microprocessor or even a Processor.
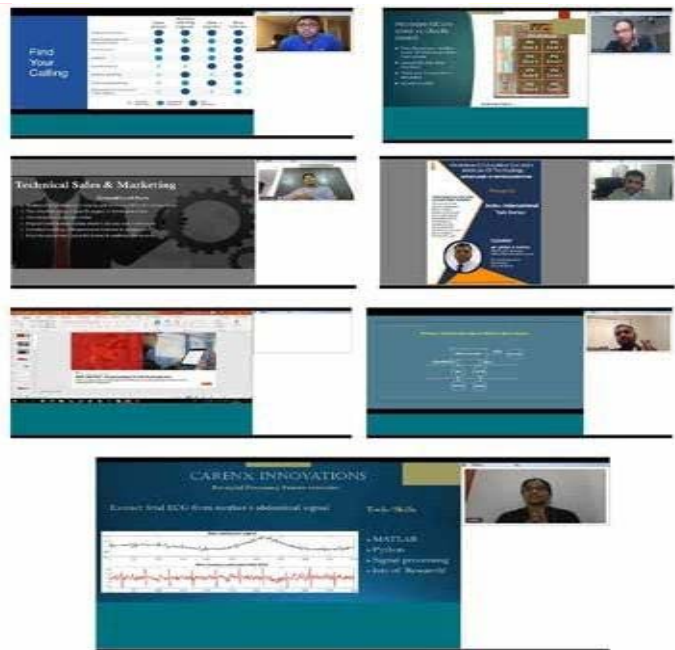
Screenshot of the Instru-International Talk Series event

THE THIRD SESSION was based on the topic of **Sales & Marketing in the Field of Instrumentation** on 9th September 2020 at 09:00AM. This session was addressed by **Mr. Pranit Kotgire** from the 2018 batch of Instrumentation Branch. Mr. Pranit currently works with Crystal International Technology located in Oman as a Technical Sales Engineer. In this session, he explained how Sales and Marketing can be a lucrative career option and how we can make a switch to Sales and Marketing if we want to.

THE FOURTH SESSION was based on the topic of **Discussion or Chat with a Department Alumnus** on 9th September 2020 at 02:30PM. This session was addressed by **Mr. Ganesh R. Rapelli** from the 1999 batch of Instrumentation Branch. Mr. Ganesh currently works as R&D Product Manager at ABB Ability Innovation Center located at Bangalore, India. In this session he had a talk/ discussion with the students covering top- ics like tips and tricks to get placed in campus placement, suggestions regarding higher studies, etc.

THE FIFTH SESSION was based on the topic of **Augmented Reality and Mobile Solutions for Field Operators** on 10th September 2020 at 02:30PM. This session was addressed by **Dr. Zied M. Ouertani** who is Global Technology Manager, Chemicals and Refining Energy Industries in ABB, Frankfurt, Germany. This innovative session focused on AFP or Augmented field procedures, an innovative "ABB Ability" based Digital Solution that is devised for improving safety, reducing unscheduled downtime and increasing operational efficiency.

THE SIXTH SESSION was based on the topic of **Engineer your career** on 11th September 2020 at 09:00AM. This session was addressed by our alumnus **Mr. Sriram Viswanathan** who is a software Engineer, Robotics & Digital Solutions in Verb Surgical, United States of America. This session consisted of technical information as well as his personal experience in the field of Robotics & Digital Solutions as a software engineer. He also shared information about his work which applies knowledge of robotics in the field of surgery.

Last session was based on the topic of **From Instrumentation to Biomedical** on 12th September 2020 at 09:00AM. This session was addressed by our alumnus **Ms. Radhika Mujumdar** who is a Biomedical Re- search Engineer at University of Buffalo, United States of America. This innovative session consisted of A brief discussion on job prospects, research, opportunities and challenges when considering a career in Biomedical Engineering.

Each session was concluded with interactive questions and answers sessions with attendees where participants' doubts and questions were addressed in brief followed by a vote of thanks.

e-Praxis 2021

e-Praxis'21 was conducted by VESIT Renaissance Cell (VRC) in association with VESIT -IIC and VESIT-IQAC. This year, due to Covid'19 Pandemic Praxis is switch to e- Praxis. All technical events were held online. e-Praxis'21 was held on 21st - 22nd April 2021, with the Pre e-Praxis'21 events were held on 17th -18th April 2021.

Participation details

Pre-e-Praxis'21 Events				
Sr. No	Date	Event Name	Timing	participation details (count)
1	2nd - 4th Apr 2021	e-cell & VRC : VESIT HACKS	whole day	108
2	17th April 2021 - 18th April 2021	CSI : CodeKnights	17th April 2021 - 7pm to 18th April 2021 - 7am	132
3	17th April 2021	ISTE : Meetrix	3PM to 5:30PM	82
4	18th April 2021	ISTE: Trading workshop	11.30am to 1.00 pm	174
5	17th April 2021	ISA : Leaflet.js	10:30am - 12pm & 1pm - 2:30pm	66
e-Praxis'21 Events :Day 1				
Sr. No	Date	Event Name	Timing	participation details (count)
1	21st Apr 2021	VRC : e-VES Robotics Challer	9.30 am - 12.30 pm	52
2	21st Apr 2021	VRC : AD Venture	11.30 am -12.30 pm	11
3	21st Apr 2021	CSI : Sherlock & Watson	12.30 pm - 3.30 pm	58
4	21st Apr 2021	CSI : IQuaranteen	12.30 pm - 3.30 pm	80
5	21st Apr 2021	IEEE : Mastermind	3.30 pm - 6.30 pm	161
6	21st Apr 2021	IEEE : Case Closed	3.30 pm - 6.30 pm	96
e-Praxis'21 Events :Day 2				
Sr. No	Date	Event Name	Timing	participation details (count)
1	22nd Apr 2021	VRC : e-VES Robotics Challer	9.30 am - 12.30 pm	52
2	22nd Apr 2021	VRC : Brain Game : Spin-A-Yarn: Creative thinking,Current Trends Crossword	10.30 am -12.30 pm	88
3	22nd Apr 2021	ISA : Hardware Auction	12.30 pm - 3.30 pm	22
4	22nd Apr 2021	ISA : Filter It Out	12.30 pm - 3.30 pm	32
5	22nd Apr 2021	ISTE : Dalal Street	3.30 pm - 6.30 pm	225
			Total	**1439**

Youtube links for few events were

BrainGame Link: https://youtu.be/UGHmHUeOgPA

Robotic : https://youtu.be/Bx7euqci2Dg

https://youtu.be/PoNYL6CTHGQ

AD venture https://youtu.be/UYQPr0gh5Ok

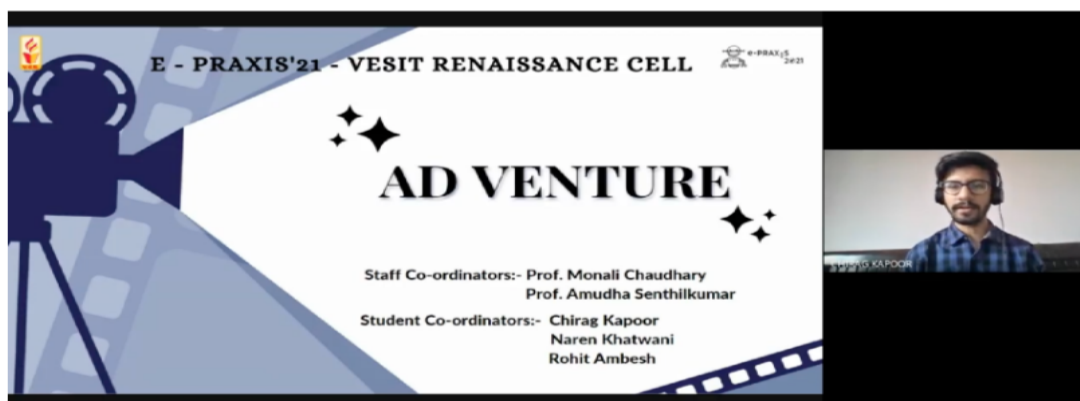Dalat Streate https://youtu.be/r9l8glijN_Y
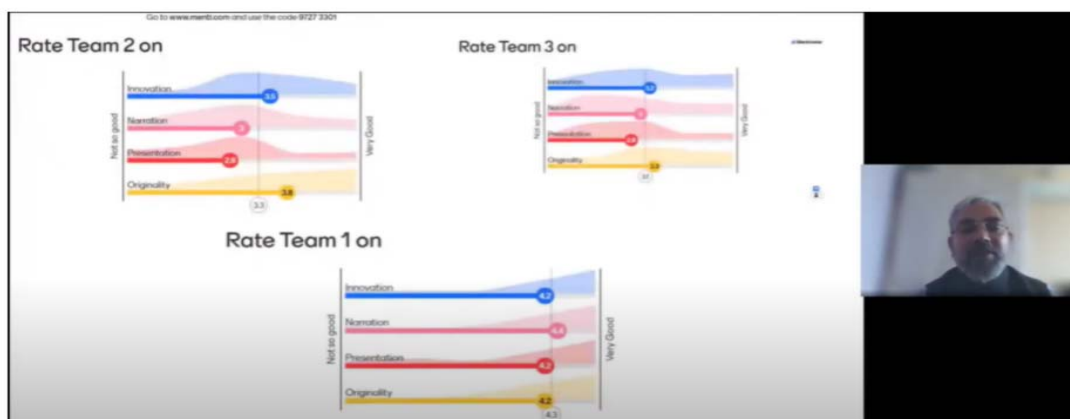
Some Photos e_Praxis

Robotic

Workshop 01 – Simulation and coding of Manual Robot. (Video)
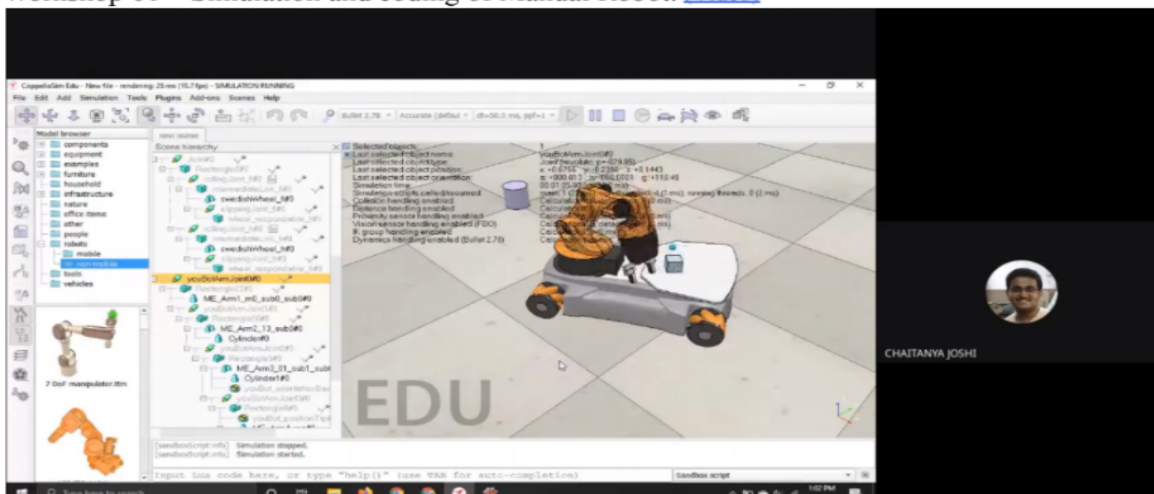
AD venture

BrainGame

Caption : Mr Shreekant Shiralkar focussing on the importance of creative learning through results

**For more details visit website https://sites.google.com/ves.ac.in/e-praxis-21/home**

VESIT - LOOKING BEYOND SYLLABUS (LBS) REPORT 2020-21

It's an Institute level competition with the purpose of motivating students to come up with new project ideas, which can be converted into real time applications or products. Through LBS, VESIT offers an opportunity to the students to contribute to the society by providing innovative and efficient solutions for today's needs of the citizens.

The competition in collaboration with IIC, was started by sending an email on 26th Sep 2020 to the eligible students for online registration for the project proposals. 26 faculty from various departments registered for the Mentorship.

Themes for LBS projects this year were:

1. Online education
2. Virtual Lab creation
3. Green innovations in technology
4. Healthcare
5. Data science for society
6. Artificial Intelligence
7. Robotic Process Automation
8. Machine learning
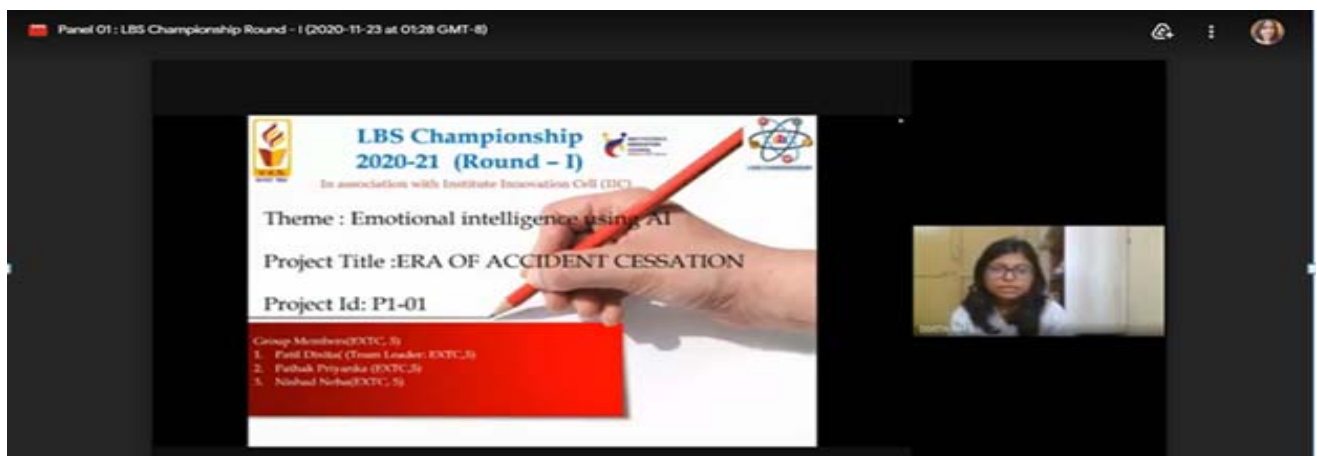
Final stage of the LBS championship was organized on 30th April 2021. Out of 16 Shortlisted teams in the second round 14 teams showcased their projects on the online platform (VESIT YouTube Channel). Winners were selected on the basis of the feedback and assessment by the experts as well as the number of views for the video uploaded on VESIT YouTube Channel. Event started on 30th April 2021 at 10:00 AM and ended on 01 May 2021 at 10:00 AM.

The following selected projects participated in the e-exhibition.

1.   LBS-GR 1- Automated Document Verification System for Admission

2.   LBS-GR 2- Poacher Detection

3.   LBS-GR 3- Healthcare related topics like drug discovery, genomics, track and prevent

             diseases, predictive analytics, medical imaging, monitoring patient's health, etc

4.   LBS-GR 4- DRISHTI (Automated Exam Surveillance System)

5.   LBS-GR 5- Automated waste segregator

6.   LBS-GR 6- MEDICAMENT - Sharing of medicine

7.   LBS-GR 7- MOODSCORE

8.   LBS-GR 8- Asana - Enabling remote fitness

9.   LBS-GR 9- StethAI- Digital Stethoscope with AI

10.   LBS-GR 10- JEEVAN PARITRATA -A ML based accident management system

11.   LBS-GR 11- E2 (Education Made Easy)

12.   LBS-GR 12- Data structures and algorithms Visualisation

13.   LBS-GR 13- Social welfare website

14.   LBS-GR 14- Drizzlr - AeroDrip

Three best projects were declared as winners. The projects were judged based on the feedback received by the judges and the number of views that each project gets. The result was calculated based on 70% of judges' feedback + 30% of the number of views obtained by each project.

WINNER

LBS - GR - 6(P3-04) - MEDICAMENT-Sharing of Medicine

FIRST RUNNER UP

LBS - GR - 4(P2-08) - DRISHTI (Automated Exam Surveillance System)

SECOND RUNNER UP

LBS - GR - 14(P3-03) - Drizzlr - AeroDrip

Ek Bharat Shreshtha Bharat

The broad objectives of the initiative are as follows :

*i. **To CELEBRATE** the Unity in Diversity of our Nation and to maintain and strengthen the fabric of traditionally existing emotional bonds between the people of our Country;*

*ii. **To PROMOTE** the spirit of national integration through a deep and structured engagement between all Indian States and Union Territories through a year-long planned engagement between States;*

*iii. **To SHOWCASE** the rich heritage and culture, customs and traditions of either State for enabling people to understand and appreciate the diversity that is India, thus fostering a sense of common identity*

*iv. **TO ESTABLISH** long-term engagements and,*

*v. **TO CREATE** an environment which promotes learning between States by sharing best practices and experiences.*

SAUR URJA BHARAT

The 3rd event of EBSB was conducted on 24th October, 2020. The participants were encouraged to be a part of the activity where they had to use their marketing strategies for selling a solar powered lamp in the rural areas which were devised by the students of IIT Bombay under the guidance of prof. Chetan Singh Solanki. The judges for the events were **Mr. Prasad Rao** and **Ms Kriti Krishna**.

A virtual toss was done and the team who won the toss gets to decide which team goes first. Every team was given 15 minutes to present their ideas in front of the judges. There was a warning bell after 13 minutes and a final bell after 15 minutes. Any team exceeding the given time limit was negatively marked. The marking scheme was divided into five criterias; content, organisation, delivery, overall impact and handling of questions.

The winners were :-Team IMI: Kumari Nikita Abhirup Sarkar Chhavi Singh

Team VESIT - Avinash Tripathy (D14B), Ayushi Pamnani (D14A) and Isha Gawde (D10A)

Dr. Chetan Singh Solanki of the Energy Swaraj foundation sharing his thoughts on the importance of solar energy

Essay Writing Competition Under ESBS

DY Patil College of Engineering, Pimpri, Pune conducted their first event under the EBSB program from 4th September 2020 to 10th September 2020. They organized an essay writing competition. The topic for the competition was '**Impacts of COVID 19 on Humans and Environment**'. The idea behind organizing this competition was to promote the thoughts of the youth of the nation. They intended students to pen down their thoughts and expressions for the current COVID 19 situation. This essay writing competition was promoted in VESIT through the Literature Circle of the college. The participants were provided with a certificate.

Language and Cuisine

International Management Institute, Bhubaneshwar hosted their second event under the EBSB program in association with VESIT on 19th September 2020. The topic for the event was 'Language and Cuisine'. The idea behind organizing this event was to bring about a cultural exchange between the states of Maharashtra and Odisha. They executed the idea through presentations and a crossword quiz.

The event was hosted on zoom. The zoom meeting had around 118 participants which included students and faculty members from the states of Maharashtra and Odisha.
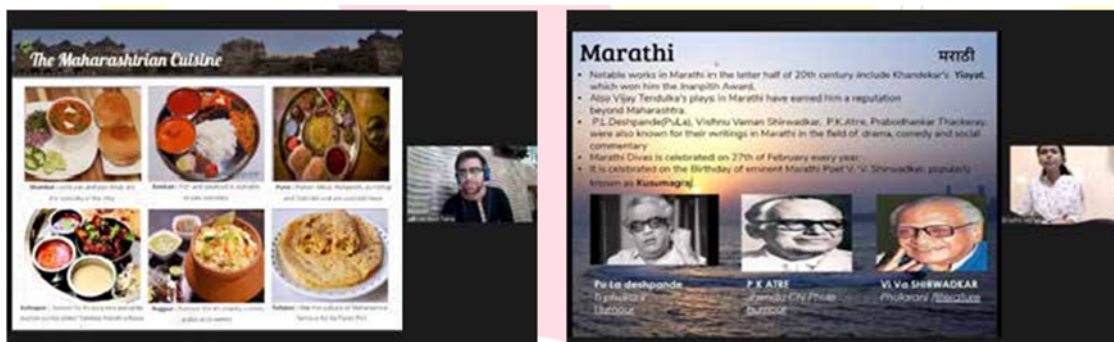
A webinar "*Equipping yourself for the COVID 19 Era*"

A webinar organised by **Ek Bharat Shrestha Bharat (EBSB)** club of International Management Institute (IMI), Bhubaneswar in association with **Isha Foundation** & **VESIT** on the occasion of **7th International Yoga Day.**

The theme of the event was "*Equipping yourself for the COVID 19 Era*".

The Panel Discussion on the topic is '*Restoration of our Collapsing Ecosystem*'

The Panel Discussion on the topic is '*Restoration of our Collapsing Ecosystem*' **was organized under Ek Bharat Shrestha Bharat (EBSB)** to assess the current situation in the states of Maharashtra and Orissa and find suitable solutions for the ecosystem restoration.

The live event was broadcasted on 19th June 2021 at 4.00 pm on YouTube Link:

https://youtu.be/55GFq5mAMlU

CELEBRATION OF ARTIFICIAL INTELLIGENCE DAY

The **Artificial Intelligence and Data Science Department** in association with DTE Maharashtra held the **Artificial Intelligence Day** celebration on 29th January 2021 from 2 p.m. onwards. NASSCOM had earlier celebrated it in association with Engineering colleges of Madhya Pradesh and owing to the overwhelming response they conducted a similar event in association with DTE Maharashtra.

This was conducted under **Microsoft AI Classroom** series for students in association with NASSCOM, future skills supported by GitHub delivered through online Simu-live sessions. Microsoft AI Classroom series is an initiative by Microsoft to skill up students and future developers on new technologies such as Artificial Intelligence, data science and augmented/ virtual reality for a digital workplace. To become creators and innovators of the not too distant future, students need to develop their skills on these technologies.

The three-hour session was packed and covered various key topics to introduce students to Artificial Intelligence, Machine Learning and Data Sciences topics with lab exercises. Each module was introduced by an industry leader and subject matter expert. The session was divided into three modules under Data Science Life Cycle and Cognitive Services, Building Machine Learning Models on Azure and Intelligent Conversational AI along with Industrial talk by industry leaders. The speakers included:

Rohini Srivathsa (National Technology Officer (CTO) Microsoft India)

Amit Aggarwal (CEO IT-ITES Sector Skill Council NASSCOM & Co-Architect, NASSCOM FutureSkills)

Sandeep Alur (Director of Microsoft Technology Center)

Bhavesh Goswami (Founder & CEO CloudThat)

Sangeeta Gupta (NASSCOM, Sr VP & Chief Strategy Officer, NASSCOM)

Ganes Kesari (Gramener, Co-Founder & Chief Decision Scientist, Gramener)

Rangarajan Vasudevan (TheDataTeam, CEO TheDataTeam, Guest Professor IIT Madras)

Sarabjot Singh (Co-Founder & Chief Decision Scientist, Tatras Data)

**Ramswaroop Mishra** (Data, Analytics and AI Competency Head at Wipro Limited)

Yudhisther Yadav (NASSCOM, Head Strategic Initiatives - FutureSkills at NASSCOM)

WEBINAR ON CYBER-SECURITY

IEEE-VESIT, in collaboration with IFCAI Business School, conducted a webinar on Cyber-Security on 2nd December 2020. **Dr. Vanita Joshi, faculty at ICFAI Business school**, started the webinar by interacting with the participants, asking them about their understanding of Cyber Security.

This was followed by an explanation about different types of malware and system vulnerabilities caused by snooping, intrusions, and cyber vandalism. She further explained about crimes such as identity theft, phishing, click fraud, and cyber-terrorism. Loss of revenue, lowered market value, legal liability, and many other points were discussed which gave the participants an idea about how cyber-crimes and cyber-attacks affect businesses.

She talked about recent cyber-attacks like Cosmos Bank (Pune) case study, Canara Bank case study, breach of 1.1 billion records of Indian Aadhar cardholders to name a few. This was followed by an explanation on how these attacks could be prevented using strong passwords, firewall, encryption, multi-factor authenti- cation and so on. The doubts of participants were cleared during the Q&A session.
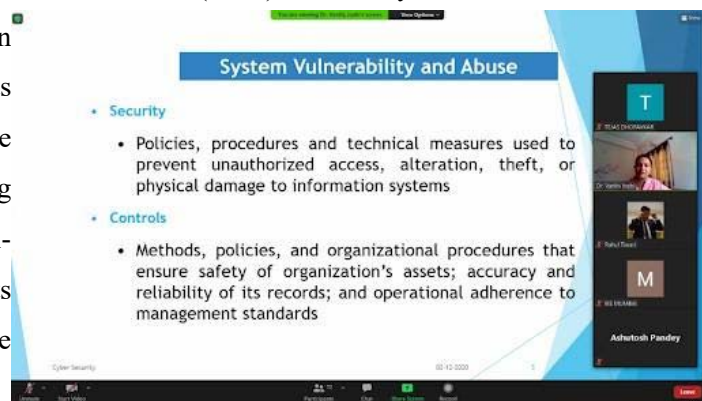

Participants being taught about system vulnerability and abuse during the cyber-security webinar

Workshop on Analog, Digital Electronics and PCB designing

The Tinkerer's lab of the Electronics department (VESIT, Mumbai) conducted a workshop on **Analog, Digital electronics and PCB designing**. The workshop was conducted spanning a period of three days from 22nd -24th August 2020 with each interactive hands-on session lasting about two-and-a- half hours each on the Google meet platform. The target audience was primarily students from the Second and Third year of the electronics engineering department.

The workshop received a huge response of 119 students from second and third-year students. It was free of cost. The students were required to install LTSpice and Eagle software with no other prerequisite taken into consideration.
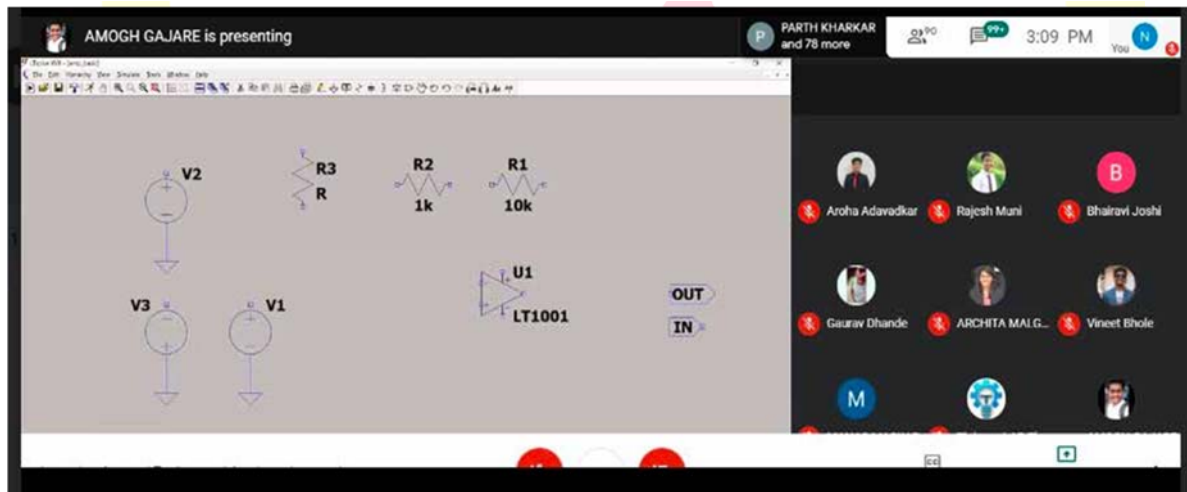
E-Sanchar 2021

E-Sanchar 2021 – A Tech Voyage of Emerging Ideations realizing Solutions,   initiation by the Electronics and Telecommunication department conducted in association with Institute's Innovation Council (IIC) and Internal Quality Assessment Cell (IQAC). It was a 7 days online program conducted from 1st -7th July, 2021.

This event cites an exhibition of few exemplary final year projects by the department. There are 6 major domains offered by the department under E-Sanchar namely Antenna, Wireless Networks, Embedded Systems & VLSI, Internet of things (IOT), Machine Learning & Artificial Intelligence and Signal & Image processing. The academic year 2020-2021 witnessed 18 such mind-blowing projects categorized under 3 Tracks.

Track 1 titled as **'Safety and Disinfection during COVID'19'** realizes solutions to the inefficacies with the pandemic and realizable solutions to cope with them.

Track 2 referred as **'Social Projects'** serves hands to individuals and organizations at large conforming health care sector, supply chain industries, telecommunications, landscape stabilizations etc.

Track 3 titled as **'Security and Surveillance'** as the name suggests tackles the issues related to security breach and leverages the technology through intelligence and real time monitoring in private and public spaces and identifying people which is becoming pervasive and more invasive.

CODE FOR CHANGE HACKATHON.

INVINCIA Code for Change (Organised in collaboration with SoRT Council)

CodeCell Tinker'sin collaboration with V.E.S.I.T. Student Council organized the Code for Change Hackathon.

The objective of the 48 hours competition taking place from 17th - 19th November 2020 was to make students aware of the ongoing social and environmental problems in the country and aid the various organizations which are trying to tackle them by creating digital solutions and platforms for these Non Governmental Organizations. The problem statements were provided by the NGOs which dealt with the cause the specific NGO was working towards.

Website for Human Team Foundation

Problem Statement:

The expectation of the NGO is to have a functioning website that would showcase their past works and align with their main aim. This would include their descriptions and a schedule of their future events. The website will be used by the organization to increase reach and provide potential donors with information. The website should be easily accessible and quick to understand. Participants are allowed to add any extra details and/or functions if they want to.

Website for Freedom for You:

Problem Statement:

The expectation of the NGO is to have a functioning website that would showcase their past works and align with their main aim. This would include their descriptions and a schedule of their future events. The organization would be using the website to show to potential donors. The website should be easily accessible and quick to understand. Participants are allowed to add any extra details and/or functions if they want to.

For Hope

Problem Statement :

Extract Data from Devanagari Text. The problem statement is to develop a tool, application, or script that can process the required input document in the form of a PDF or Image file and extract readable text from it. The 7/12 extract, traditionally called "Satbara Utara" (in the Marathi language), is an extract from the land register of any district, maintained by the revenue department of the government in the state of Maharashtra. It is a revenue document showcasing: Ownership. Occupancy, rights, liabilities, and other agricultural aspects pertaining to land, mainly the agricultural land, prepared for each respective village in which the property is located. However, Non agricultural land also has its own extract. Additionally, it is one of the basic documents of title that serves as evidence of ownership of the agricultural land it represents.

All the winners of the Hackathon were given a chance to work with their respective NGOs and intern for them in bringing their problem statement solution to fruition.

Hacktoberfest Workshop Series

In celebration of **Hacktoberfest** various sessions were organized in the Month of October 2020 to spread aware- ness about **open-source contribution** by guiding students through engaging and interactive sessions. Through these 2-to-3-hour sessions students were provided with invaluable knowledge of how they could contribute to the open-source community. We tried to clear the doubts of all students by creating a two- way rapport with them.

Since the college was closed due to the Covid-19 Pandemic, all sessions were taken online using **Google Meets**. The following seminars were conducted in the month of October

- Getting Started with Open Source and GitHub Workshop
- GSOC Talk Introduction to DevOps and Jenkins
- Fundamentals of Linux

The posters for GSoC Talk Seminar, Introduction to Devops and Jenkins, Fundamentals of Linux seminar events of Hacktober Fest

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JAVA APPIFY

CSI-VESIT organized its JavaAppify 3 days workshop on 4th-6th December 2020. The principal benefit of the workshop was that it also included an Android App Development workshop on the 3rd Day. It was conducted by the Sr. Technical officers and Sr. Web Editors.

It was attended by more than 100 participants.

NODE.JS WORKSHOP

The Node.js workshop was conducted on 22nd November 2020. This project-oriented one day workshop covered the basic concepts of Node.js, Socket.io, and Express.js followed by a quiz to further enhance their learning experience. The participants used HTML and CSS to add aesthetic value to the front-end of the Chatting Application. Using Node.js, Socket.io, and Express.js, the participants completed the crucial back-end of the Chatting Application. The workshop was conducted successfully with the participants getting a hands-on coding experience.

SPOTIFY USING PYTHON

ISTE-VESIT organized a two-day workshop on how to build Spotify using python and python tkinter on 3rd - 4th October 2020. The workshop was conducted on google meet.

Enjoy uninterrupted listening - a full house "Spotify using python" workshop

MACHINERA SERIES:

Aiming to provide students with an insight on the building blocks of Machine Learning from scratch, and we understand it's difficult to cover some of these topics in 1 or 2 days, so this year we have come up with Machinera- an AI series, which is divided into various courses, where students will get to learn various concepts under the umbrella of AI.

On 24th October 2020, ISTE VESIT hosted the first course of the Machinera series on the Google meet platform. This series was open for all SEs and the ISTE members of TE, BE, and MCA.

The second course was conducted on 6th and 7th Feb 2021, which was attended by 75+ students. This course covered Web Scraping & Dataset Generation which covers XPath, CSS Selectors, Beautiful Soup, Selenium, Scrapy, EDA & Data Preprocessing which includes Description of Data, Data Handling, Handling Outliers, Sweetviz, Encoding Categorical Data, Splitting Dataset into Training, Test sets and much more.

CultRatri

As the VESITians longed for a celebration of Navratri in the lockdown, VESIT Cultural Council in association with VESIT Dance Crew (VDC), came up with its brand new event - CultRatri. The online event was conducted on the last day of Navratri i.e. on the 24th October 2020. The online fest brought in various cultural exhibits along with traditional extravagance for VESITians.

INVINCIA

Invincia was planned around Diwali, various pre-events surrounding the festival of lights were held. Students submitted pictures and snippets of vibrant rangolis, colorful outfits, decorated diyas and garnished dishes!

Talent Aid

This event was specifically planned to raise money for the NGO "Kshamata". This was in collaboration with the Social and Responsibility Team (SORT Council).

Musical Misfit

February 13 and February 14, 2021: A fun event was organized in our college named " Musical Misfit". This event was successful enough to attract over 30 teams of registrations making it an event attended by over 100 students.

Each team consists of 1 leader and 2 teammates. Two teams were put in a breakout room i.e six people in one breakout room with one moderator. Three rounds were held between teams namely " Antakshari, Rapid Fire and Musical Charades".

CHESS FOR CHARITY: 21th, November 2020.

The chess wizards of the college came together for good and competed in the event Chess for Charity which was conducted by SoRT VESIT with the VESIT STUDENT COUNCIL under Invincia.

The event was another innovative and fun challenge that directed the thrill of competing in chess tournaments for the betterment of women in need. It was a unique mixture between indoor sports and the spirit of giving back.

Around 45 people participated and donated to the NGO Kshamata with the fundraising Ketto website which was functional from the 18th - 22nd of November, 2020. The players competed in pairs until only 2 winners were left and the finale between the two was live streamed on Youtube.

Members of the student council competing

DID YOU KNOW

The event of VESIT SPORTS COUNCIL, 'Did You Know' was held on 27th September 2020. It was an online event conducted on the Official Sports Council Instagram account.

Phase 1: In Phase 1, a game titled Guess The Player, was organized where certain images of a player along with hints based on the performance and career were posted on Instagram and students were asked to identify the player.

Phase 2: In Phase 2, a game titled POP Quiz, was organized where questions along with four options were posted on Instagram and students were asked to identify and select the right option.

NATIONAL-LEVEL QUIZ ON SAMVIDHAN DIVAS

-
A National-level quiz was held on 26th November 2020, on the occasion of **Samvidhan Divas**, to enhance knowledge and to ignite the appreciative relevance of the Constitution during Lockdown. The quiz was free of cost and was held for all the staff members, students and faculties of participating colleges. Under the guidance of **Internal Quality Cell** (IQAC) in Association with the **Institution's Innovation Cell** (IIC) Library, the quiz was arranged for faculty, students and all the stakeholders of the society.

WEBINAR ON MENSTRUAL HYGIENE

SoRT VESIT with the VESIT STUDENT COUNCIL under **INVINCIA** collaborated with The **Myna Mahila foundation** to conduct a **webinar on Menstrual Hygiene**.

Dr. Shraddha Kale Kapile discussed the myths surrounding menstruation and even discussed personal stories from her childhood. Everything from first period stories to weird myths in households were touched and joked upon, which made everyone comfortable with sharing their stories. The complexities of menstruation and the importance of taking care of your hygiene was discussed at lengths.

Dr. Shraddha Kale Kapile giving the presentation

Promotion about "Free vaccination for the 18-44 Yrs age group"

Free vaccination for 18-44 years age group was started from 21 June 2021. The I&B ministry is issued advertisements in local languages and putting up hoardings. Translation in local languages was available with regional PIB offices in each state.

In this regard, AICTE requested all the institutes to upload the banner on their official website and disseminate this information among all the students, faculty members, staff and others.

VESIT promoted the same through all social media & email.

GANESH POOJA

Ganesh Pooja to mark the completion of renovation work of VESIT Boardroom and Principal/Managing Trustee Office was held on 9th January 2021