Velagapudi Ramakrishna Siddhartha Engineering College

Department of CSE and Internal Quality Assurance Cell

REPORT ON
Three Day Faculty Development Program (FDP)
ON

"OBE: Importance of Outcomes, Assessment, and Evaluation for Accreditation"

14th – 16th August 2020

Under AICTE MARGDARSHAN

IQAC cell and Department of Computer Science and Engineering, VRSEC has successfully organized a Three-day FDP on **"OBE: Importance of Outcomes, Assessment and Evaluation for Accreditation"** exclusively for Margdarshan Mentee Colleges from **14th - 16th August 2020.**

A total of 365 participants from 11 mentee colleges and host institutions have been deputed and attended the program.

THE OBJECTIVES OF THIS FDP ARE:

1. To understand the NBA Accreditation Processes

2. Demonstrate how to write the vision, mission statements

3. Demonstrate how to write PSOs and forming various committees

4. Able to illustrate CO framing, mapping Cos with POs

5. Able to measure CO and PO attainment processes

6. Building course files and program files.

COURSE SCHEDULE

Day 1: 14th August 2020		
Timing	**Name of the Event**	**Name of the Speaker**
2:10 PM to 2:15 PM	Registration/Inauguration	
2:15 PM to 3:30 PM	NBA Accreditation Process	Dr.G.Varaprasad
Break		
3:45 PM to 5:00 PM	Framing Vision, Mission, PEOs, PSOs, and Various Committees	Dr.G.Varaprasad
Day 2: 15th August 2020		
2:00 PM to 3:25 PM	CO Framing and CO-PO	Dr.G. Varaprasad

|	Mapping	
Break		
3:40 PM to 5:00 PM	CO Attainment Process	Dr.G. Varaprasad
Day 3: 16th August 2020		
2:00 PM to 3:25 PM	PO Attainment Process	Dr.G. Varaprasad
Break		
3:40 PM to 5:00 PM	Building Course File and Program File.	Dr.G. Varaprasad
5:15 PM to 5:30 PM	Valedictory	

Speaker for these 3 days:
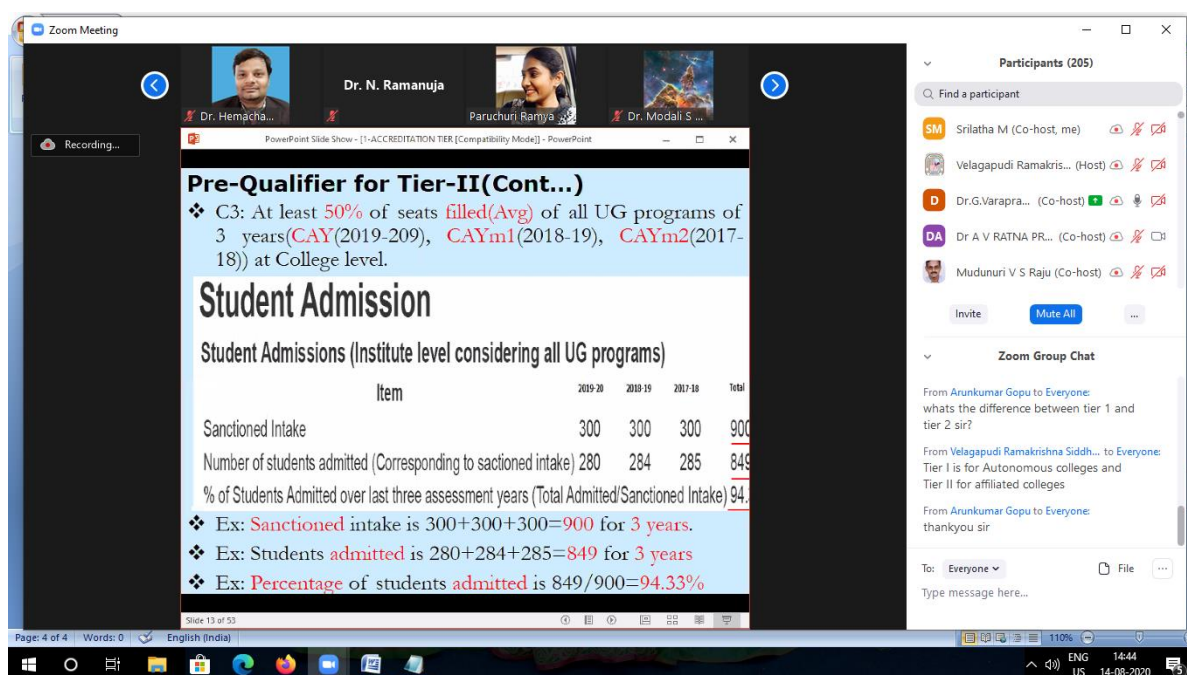Dr.G.Varaprasad
Professor, BMS College of Engineering, Bangalore.
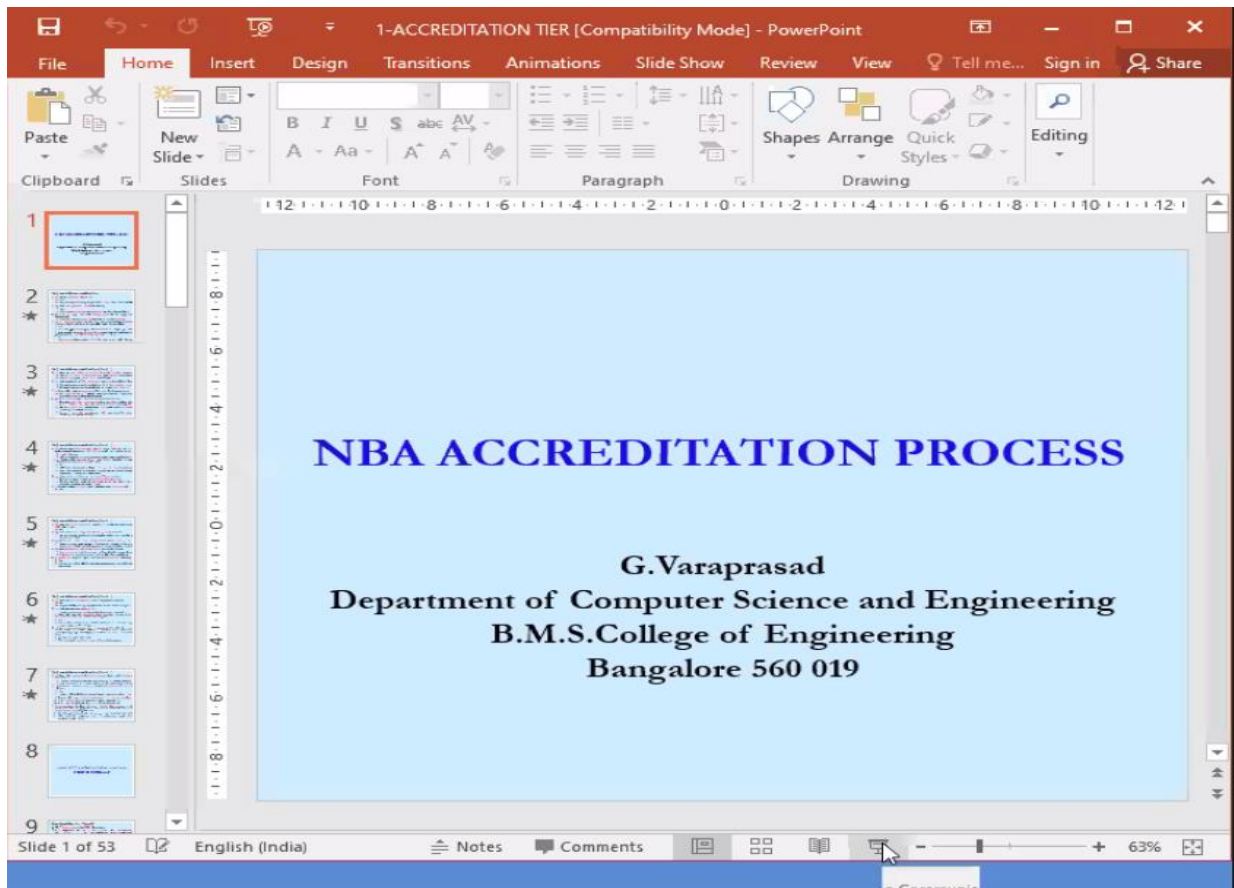
Day 1: 14th August 2020

Topic: NBA Accreditation Process, Framing Vision, Mission, PEOs, PSOs, and Various Committees.

The session started by Dr. M.V.Raju IQAC coordinator stating the importance of accreditation and outcome-based education, and the Dr. A.V Ratna Prasad, principal VRSEC explained the objective of the program, effective utilization of FDP by each faculty.
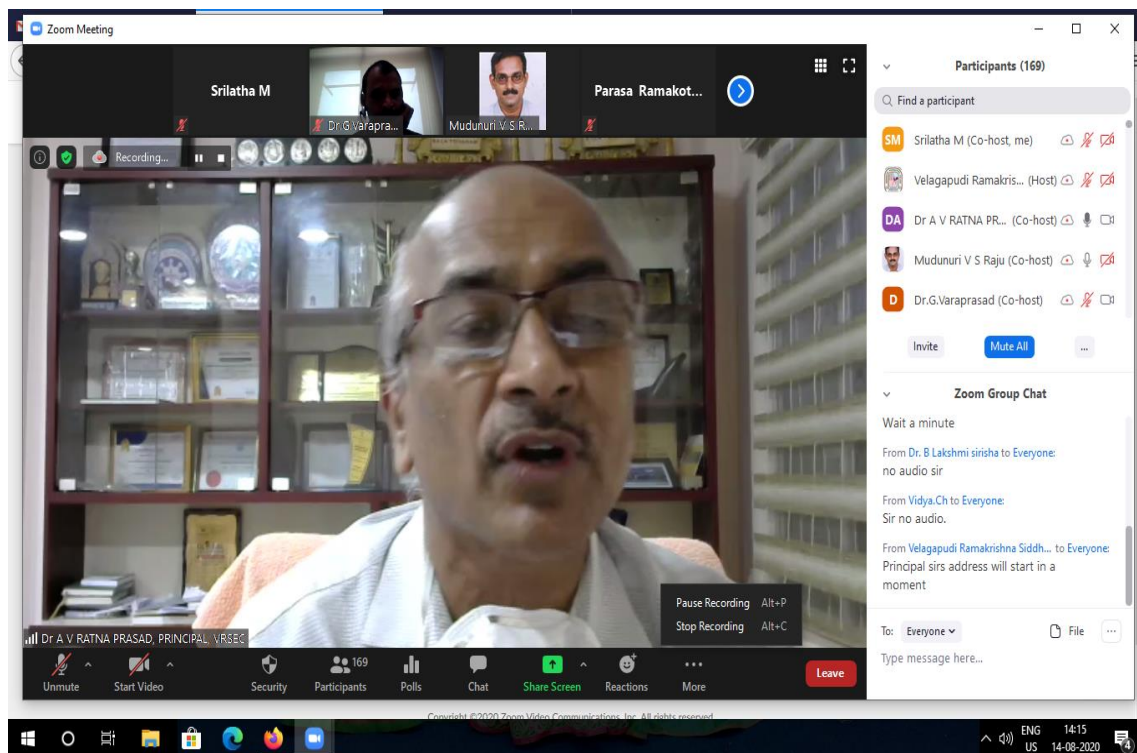
In the first half of the session, the speaker Dr. G. Vara Prasad delivered a brief lecture on Tire 1 and Tire 2 accreditation processes, the colleges which come under tire 1 and tire2 accreditation, the validity of accreditation period, pre-qualifiers for Tire1 and 2, list of criteria's and the weightage for each criterion in both Tire 1 and Tire 2 accreditation.

In the second half, the complete session was oriented about how to write vision statements, mission statements concerning an institution's objective.

Next, the speaker has explained the procedure to be followed to write a vision statement and mission statement, the common mistakes which are generally reflected in PSOs, various committees for PEOs and PSOs.
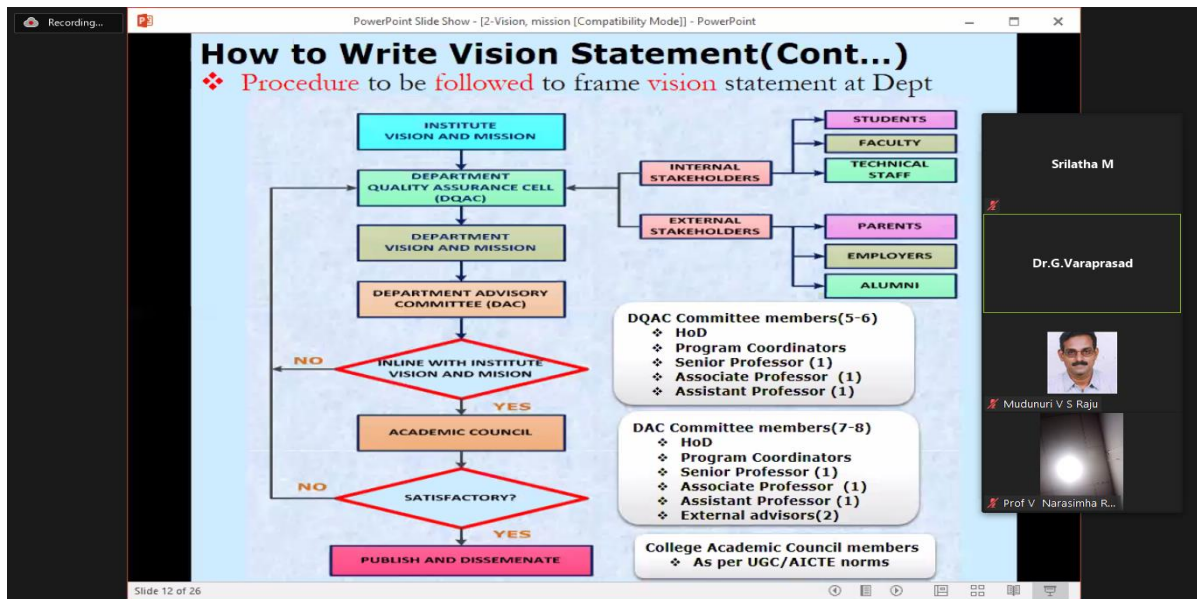
Day 2: 15th August 2020

Topic: CO Framing, CO-PO Mapping, and CO Attainment Process

On the second day of the first session, the speaker has taken enlighten sessions on writing course outcomes following the Bloom's Taxonomy, how any Ops can be mapped to a single course, rules to be followed while writing Cos, assessment tools to evaluate COs, mapping a CO with POs.

Finally illustrated CO attainment processes concerning direct and indirect assessment tools.

Direct Assessment Tools for CO(cont.)

❖ Direct Assessment- CIE-Assignment (2 assignments given)

❖ C1: If student scores less than 60% of marks on assignment, then attainment value(AT) is 0

❖ C2: If student scores more than or equal 60% of marks on assignment, then attainment value(AT) is 1

❖ Attainment =Average value of AT X 3 of all students

❖ CO Attainment is (10/10)X3=3& CO4 Attainment is (9/10)X3=2.7

		COs mapped	CO4			CO5		
			Assignment 1			Assignment 2		
		Maximum Marks	3			2		
SN	USN/Reg no.	Student Name	Q1a	%	AT	Q1a	%	AT
1	1NM14CS001	KRISHNAMURTHY Y G	3	100	1	2	100	1
2	1NM14CS002	M PRASHANTH	2	66.7	1	1	50	0
3	1NM14CS003	MADHURI P A	3	100	1	2	100	1
4	1NM14CS004	MANOJ V	3	100	1	2	100	1
5	1NM14CS005	MEGHANA S VASTRAMATH	2	66.7	1	2	100	1
6	1NM14CS006	MOHAN H HALUBAI	3	100	1	2	100	1
7	1NM14CS007	MOOLA OMKAR TEJA	3	100	1	2	100	1
8	1NM14CS008	MUHAMED BASHEER	2	66.7	1	2	100	1
9	1NM14CS009	N NIKHIL JAIN	3	100	1	2	100	1
10	1NM14CS010	NIDHI JAGADEESHA	3	100	1	2	100	1
			ATX3=	3				2.7
				CO4				CO5

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Indirect Assessment Tools for CO(Cont...)

❖ In course end survey:

❖ In CN course, no.of students are 10, let us assume that all 10 students submitted "course end survey forms".

Indirect Survey(ID)	CO	Exc	Good	Poor	Eff	Per
	CO1	8	2	0	2.8	93.33
	CO2	7	2	1	2.6	86.67
	CO3	9	0	1	2.8	93.33
	CO4	8	1	1	2.7	90
	CO5	9	1	0	2.9	96.67
		3	2	1	Att	%

❖ CO2=((7*3)+(2*2)+(1*1))/10=26/10=2.6 or 2.6/3=86.67%

❖ CO2 attainment is 2.6 (in the scale of 3).

❖ CO2 attainment is 2.6/3=86.67 (in percentage).

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Day 3: 16th August 2020

Topic: PO Attainment Process, Building Course File and Program File

On the last day of FDP, the speaker continued with PO attainment processes with assessment tolls and weights used to measure PO values in terms of direct and indirect assessment tools.

FAQ on Program Outcome

- ❖ Q: Should I measure PO/PSO in scale of 3 or percentage.
  - ❖ Both can be acceptable
  - ❖ Since CO-PO mapping has done in scale of 3 (It is preferable).
  - ❖ All 12 POs and PSOs should be measured
- ❖ Q: What are assessment tools & weights used to measure PO value
  - ❖ Direct assessment tools=80%
  - ❖ Indirect assessment tools=20%
- ❖ Q: Can we use only indirect assessment tool to measure PO/PSO value
  - ❖ No.
- ❖ Q: When we should measure all PO/PSO value.
  - ❖ Generally, all POs/PSOs are to be measured at end of the year.
- ❖ Q: What is target value, I can keep for a PO/PSO.
  - ❖ Target value of PO/PSO can keep based on previous results

Next, the speaker explained about a list of direct assessment tools and indirect assessment tools for a PO, calculating the PO attainment level, 3 levels of academic audits.

Final PO Attainment Level

- ❖ Direct assessment(DA) tools weightage is 80%.
- ❖ Indirect assessment(IA) tools weightage is 20%.
- ❖ Final PO attainment is DA*80%+IA*20%.

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct	2.925	2.59	2.98	2.72	2.62	2.73	2.725	2.74	2.64	2.9	2.81	2.51
Indirect	2.818	2.727	2.64	2.818	2.67	2.673	2.655	2.82	2.73	2.6	2.7091	2.673
Direct (80%)	2.34	2.072	2.38	2.176	2.1	2.184	2.18	2.19	2.11	2.32	2.248	2.008
Indirect(20%)	0.564	0.545	0.53	0.564	0.53	0.535	0.531	0.56	0.55	0.52	0.5418	0.535
Total(80%)+20%)	2.904	2.617	2.91	2.74	2.63	2.719	2.711	2.76	2.66	2.84	2.7898	2.543
%		96.79	87.25	97	91.32	87.7	90.62	90.36	91.9	88.6	94.667	92.994	84.75

- ❖ Ex:PO2 attainment for Direct is 2.59; Scale down(80) is 2.072
- ❖ Ex:PO2 attainment for Indirect is 2.727;Scale down(20) is 0.54
- ❖ PO2 attainment is 2.072+ 0.545=2.617 or 2.617/3=87.25%

In the second half, the speaker presented on various contents to be included in the course file, maintaining a course file, necessity of updating course files every year.

In the valedictory Dr.A.V. Ratna Prasad, Principal addressed about the experiences with in the 3 days of FDP and at the last the vote of thanks given by Dr.D. Rajeshwara Rao, Head Department of CSE.

Co-Ordinators	Chief Co-Ordinator	Principal
Dr. K Suvarna Vani Professor, Department of CSE Ms. Srilatha M Asst Prof, CSE	AICTE Margdarshan Dr. D. Rajeswara Rao Professor & Head Dept of CSE	Dr. A.V Ratna Prasad