A

Report

On

Moodle Working Index [MWI]

I Q A C

Internal Quality Assurance Cell
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE

Internal Quality Assurance Cell

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

Race Course Road, Gola Ka Mandir, Gwalior, M.P. 474005

Website: www.mitsgwalior.in

Improvement in Digital Teaching - Learning Practices through MWI

The Objective of the Practice: MOODLE Working Index (MWI) was computed to motivate the faculty members for using MOODLE.

Ten basic activities were identified for computing the MWI as follows

1. *Starting the Course page by Faculty (Course code & name)*
2. *Adding students & marking attendance*
3. *Availability of the Course Outcomes (COs) on faculty page*
4. *Availability of the Syllabus*
5. *Availability of the Lecture Plan*
6. *Question Bank*
7. *Course files (PPT, Lecture Notes ,Study material, Reference books , Unit wise Quiz and Assignment) Unit -1 , Unit- 2,..... Unit -N*
8. *Conduction of Quiz*
9. *Giving & checking Assignments*
10. *Taking Feedback*

For MWI computation:

- Faculty members completing 10 to 6 activities are grouped under "Excellent
- Faculty members completing 5 to 1 activities are grouped under "Good"
- Faculty members who are not working on MOODLE are grouped under "Poor"

Civil Engineering
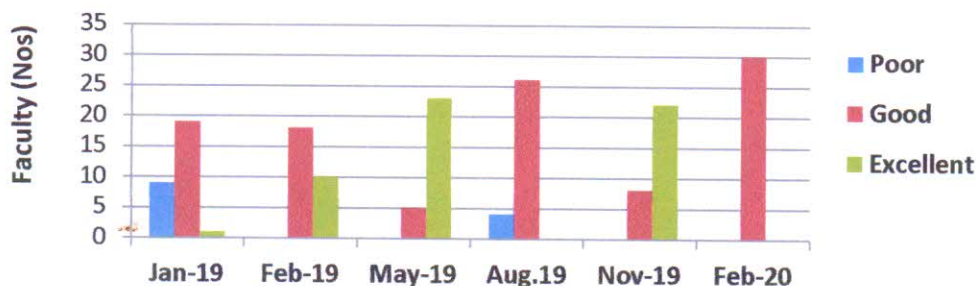
Civil Engineering

	Poor	Good	Excellent
Jan-19 (Semester Beginning)	9	19	1
Feb-19	0	18	10
May-19 (Semester End)	0	5	23
Aug.19 (Semester Beginning)	4	26	0
Nov-19	0	8	22
Feb-20 (Semester End)	0	30	0

(Dr. M. Pandit)
Dean Academics.
10/2/2021.

Dr. R. K. Pandit
(Director)
10.2.23

Mechanical Engineering
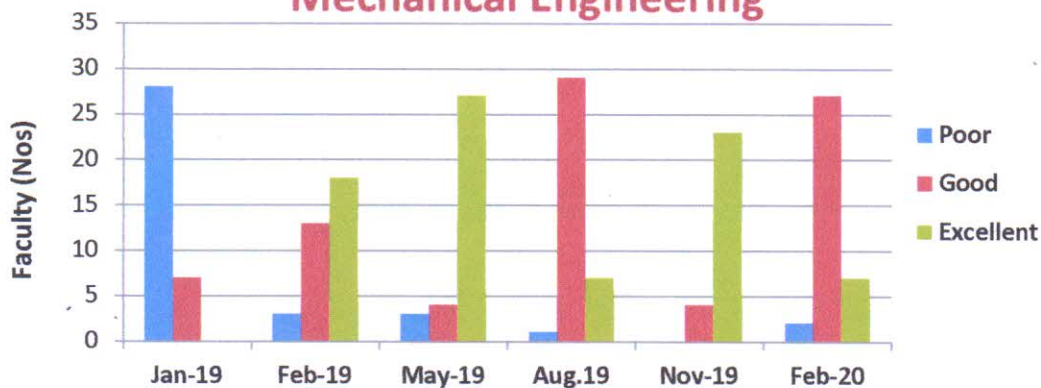
Mechanical Engineering

	Poor	Good	Excellent
Jan-19 (Semester Beginning)	28	7	0
Feb-19	3	13	18
May-19(Semester End)	3	4	27
Aug.19 (Semester Beginning)	1	29	7
Nov-19	0	4	23
Feb-20(Semester End)	2	27	7

Automobile Engineering
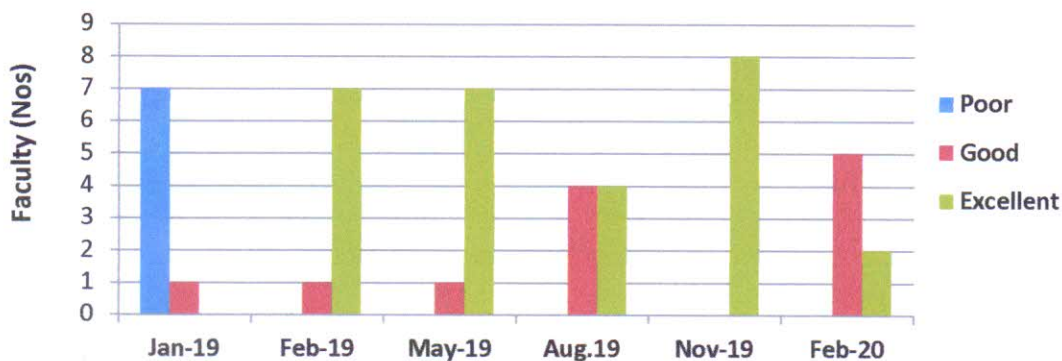
Automobile Engineering

	Poor	Good	Excellent
Jan-19 (Semester Beginning)	7	1	0
Feb-19	0	1	7
May-19(Semester End)	0	1	7
Aug.19 (Semester Beginning)	0	4	4
Nov-19	0	0	8
Feb-20(Semester End)	0	5	2

Electrical Engineering
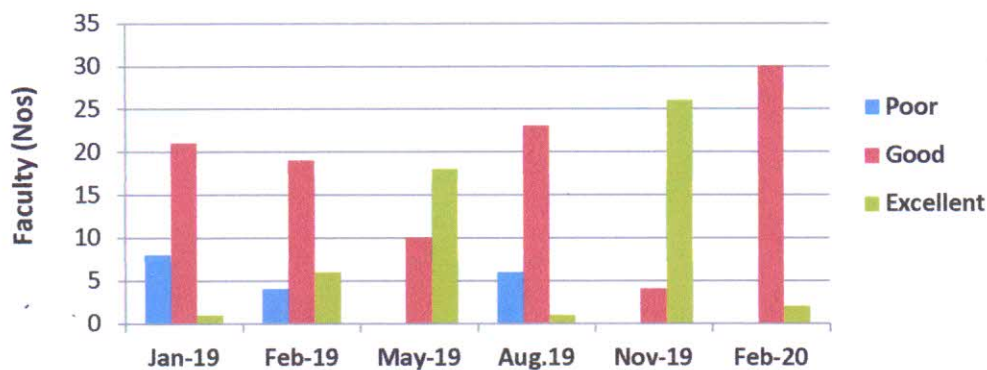
Electrical Engineering

	Poor	Good	Excellent
Jan-19 (Semester Beginning)	8	21	1
Feb-19	4	19	6
May-19(Semester End)	0	10	18
Aug.19 (Semester Beginning)	6	23	1
Nov-19	0	4	26
Feb-20(Semester End)	0	30	2

Electronics Engineering
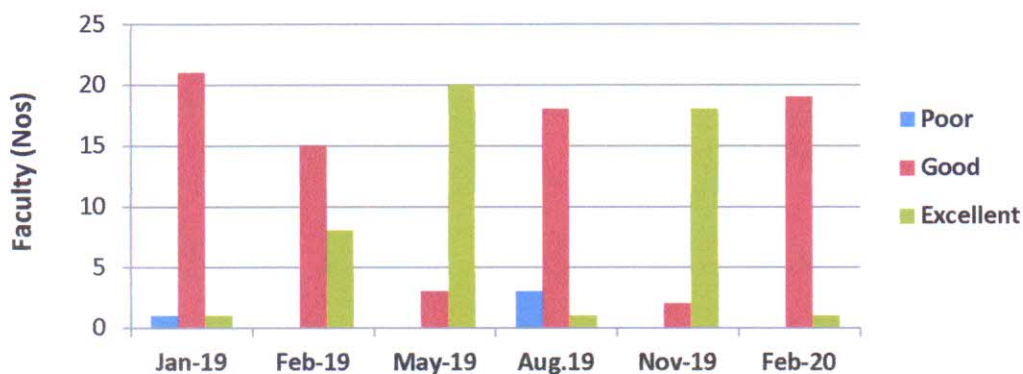
Electronics Engineering

	Poor	Good	Excellent
Jan-19 (Semester Beginning)	1	21	1
Feb-19	0	15	8
May-19(Semester End)	0	3	20
Aug.19 (Semester Beginning)	3	18	1
Nov-19	0	2	18
Feb-20(Semester End)	0	19	1

Eletronics and Telecom. Engineering
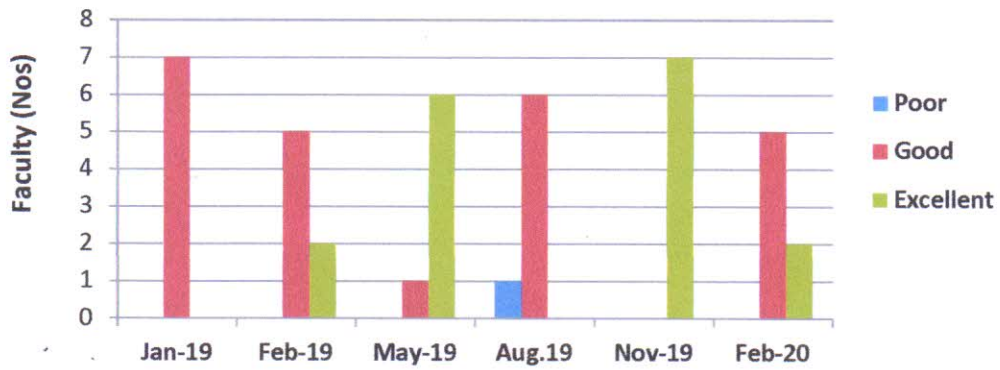
Electronics and Telecommunication Engineering

	Poor	Good	Excellent
Jan-19 (Semester Beginning)	0	7	0
Feb-19	0	5	2
May-19(Semester End)	0	1	6
Aug.19 (Semester Beginning)	1	6	0
Nov-19	0	0	7
Feb-20(Semester End)	0	5	2

CSE/IT
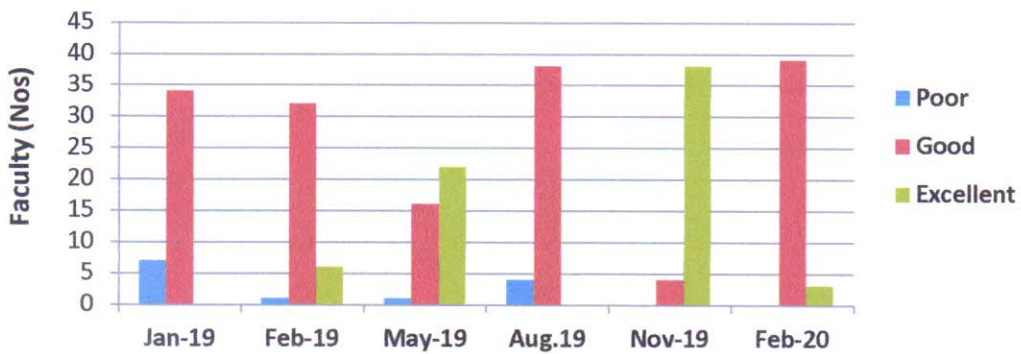
CSE/IT

	Poor	Good	Excellent
Jan-19 (Semester Beginning)	7	34	0
Feb-19	1	32	6
May-19(Semester End)	1	16	22
Aug.19 (Semester Beginning)	4	38	0
Nov-19	0	4	38
Feb-20(Semester End)	0	39	3

Chemical Engineering
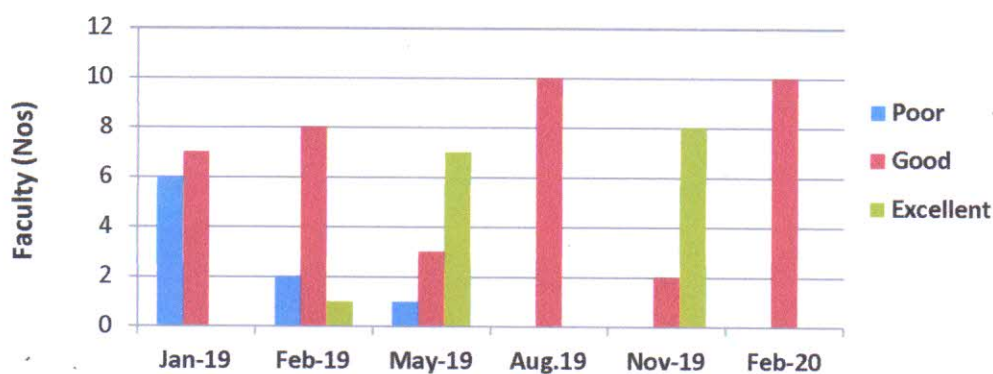
Chemical Engineering

	Poor	Good	Excellent
Jan-19 (Semester Beginning)	6	7	0
Feb-19	2	8	1
May-19(Semester End)	1	3	7
Aug.19 (Semester Beginning)	0	10	0
Nov-19	0	2	8
Feb-20(Semester End)	0	10	0

Humanities
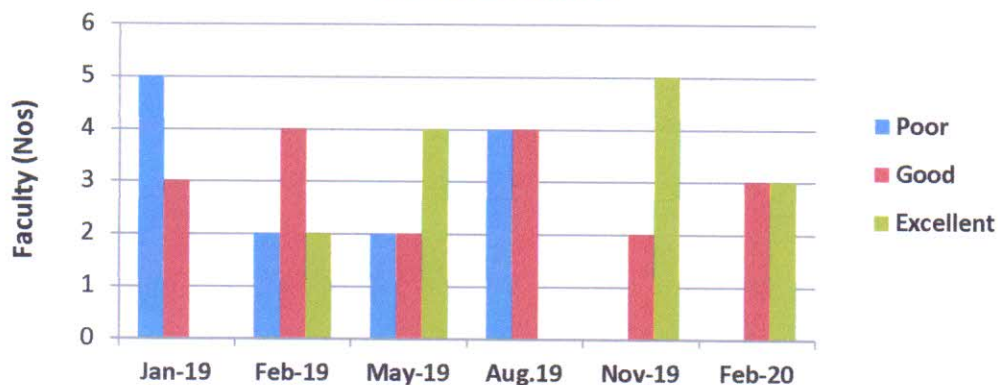
Humanities

	Poor	Good	Excellent
Jan-19 (Semester Beginning)	5	3	0
Feb-19	2	4	2
May-19(Semester End)	2	2	4
Aug.19 (Semester Beginning)	4	4	0
Nov-19	0	2	5
Feb-20(Semester End)	0	3	3

Applied Sciences
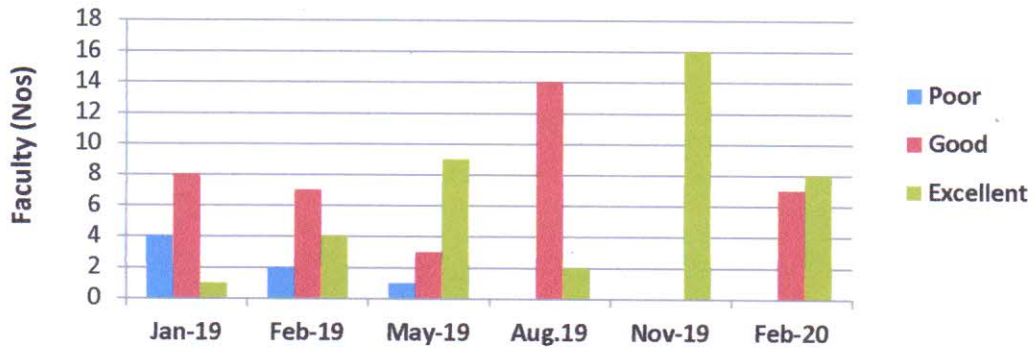
Applied Sciences

	Poor	Good	Excellent
Jan-19 (Semester Beginning)	4	8	1
Feb-19	2	7	4
May-19(Semester End)	1	3	9
Aug.19 (Semester Beginning)	0	14	2
Nov-19	0	0	16
Feb-20(Semester End)	0	7	8

Architecture
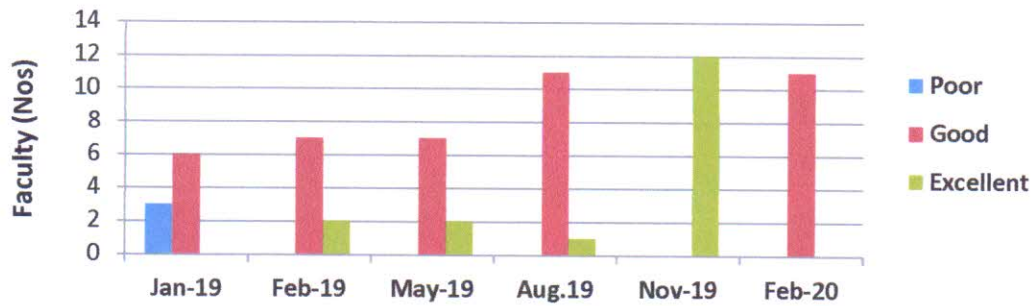
Architecture

	Poor	Good	Excellent
Jan-19 (Semester Beginning)	3	6	0
Feb-19	0	7	2
May-19(Semester End)	0	7	2
Aug.19 (Semester Beginning)	0	11	1
Nov-19	0	0	12
Feb-20(Semester End)	0	11	0

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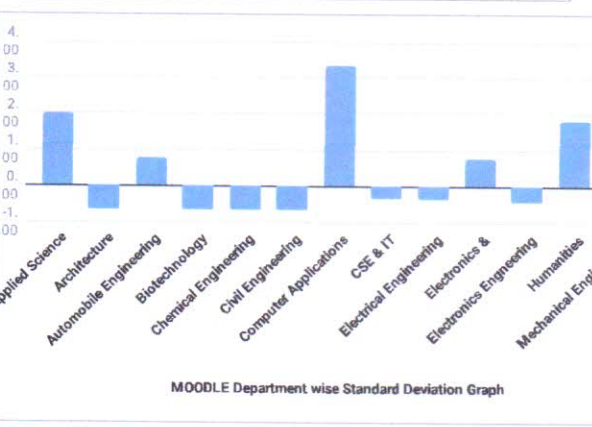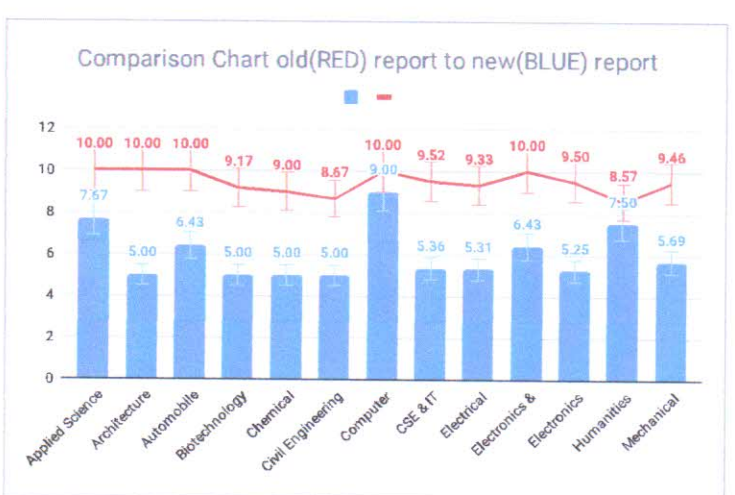(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

MOODLE WORKING INDEX   Jan-Feb   **last update   29-Feb-2020**

| MOODLE Faculty Working Index | MWI | | | | | | | | | | | | Total Faculty | | | | | | Department | |
Department Name	0	1	2	3	4	5	6	7	8	9	10	Grand Total	Not working (0)	Good (5)	Excellent (10)	MWI	Std. Dav from Avg.	Dec-2019 MWI	Not Working in %	Working in %
Applied Science					1		1	5	4	4		15	0	7	8	7.67	2.01	10.00	0.00	100.00
Architecture					2	1		8				11	0	11	0	5.00	-0.66	10.00	0.00	100.00
Automobile Engineering					2		1	2	1		1	7	0	5	2	6.43	0.77	10.00	0.00	100.00
Biotechnology					2		1	3				6	0	6	0	5.00	-0.66	9.17	0.00	100.00
Chemical Engineering					1	2	1	6				10	0	10	0	5.00	-0.66	9.00	0.00	100.00
Civil Engineering					6	2	2	20				30	0	30	0	5.00	-0.66	8.67	0.00	100.00
Computer Applications							1	4				5	0	1	4	9.00	3.34	10.00	0.00	100.00
CSE & IT					2	10	9	18	2	1		42	0	39	3	5.36	-0.30	9.52	0.00	100.00
Electrical Engineering					3	9	10	8	1	1		32	0	30	2	5.31	-0.35	9.33	0.00	100.00
Electronics & Telecommunication							1	4	2			7	0	5	2	6.43	0.77	10.00	0.00	100.00
Electronics Engneering							5	14	1			20	0	19	1	5.25	-0.41	9.50	0.00	100.00
Humanities						1		2	2	1		6	0	3	3	7.50	1.84	8.57	0.00	100.00
Mechanical Engineering	1			1	4	4	6	13	1	1	5	36	2	27	7	5.69	0.03	9.46	5.56	94.44
Grand Total	1	0	0	1	23	29	37	104	18	8	6	227	2	193	32	5.66			0.88	99.12

Institute MOODLE Working Index

Excellent (10) 14.1%
Not working (0) 0.9%
Good (5) 85.0%

Department MOODLE Index

Mechanical Engineering 7.2%
Humanities 9.5%
Electronics Engneering 8.7%
Electronics & 8.2%
Electrical Engineering 6.8%
CSE & IT 6.8%
Applied Science 9.7%
Architecture 5.4%
Automobile Engineering 8.2%
Biotechnology 6.4%
Chemical Engineering 5.4%
Civil Engineering 6.4%
Computer Applications 11.4%

Excellent — Good — Not working

Deartment Wise MOODLE WORKING CHART

Comparison Chart old(RED) report to new(BLUE) report

MOODLE Department wise Standard Deviation Graph

Department wise MOODLE Ranking

Rank	Department	MWI
1	Computer Applications	9.00
2	Applied Science	7.67
3	Humanities	7.50
4	Automobile Engineering	6.43
5	Electronics & Telecommunication	6.43
6	Mechanical Engineering	5.69
7	CSE & IT	5.36
8	Electrical Engineering	5.31
9	Electronics Engneering	5.25
10	Architecture	5.00
11	Biotechnology	5.00
12	Chemical Engineering	5.00
13	Civil Engineering	5.00

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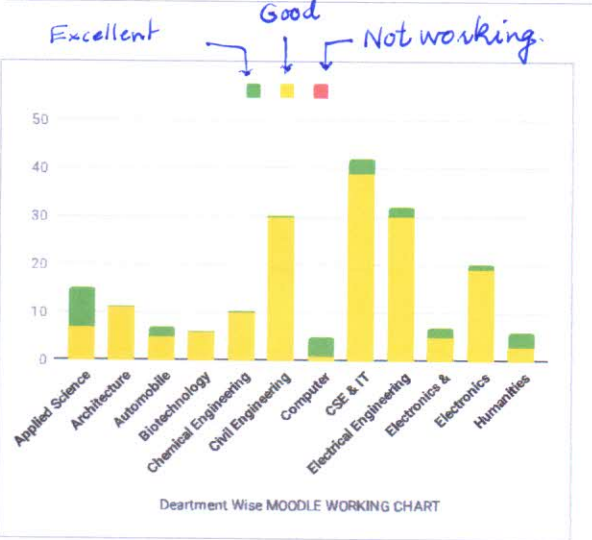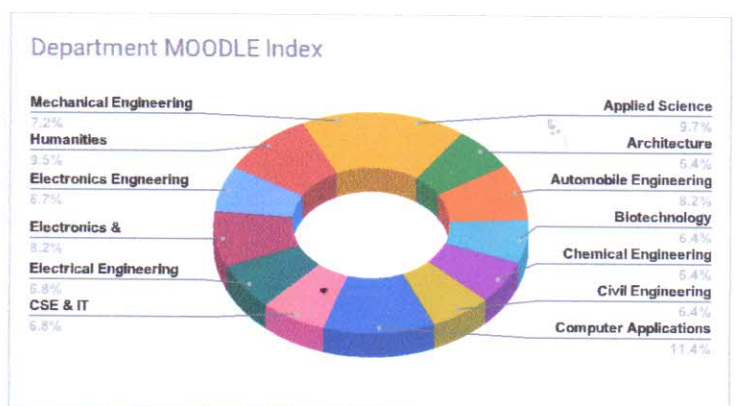(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)
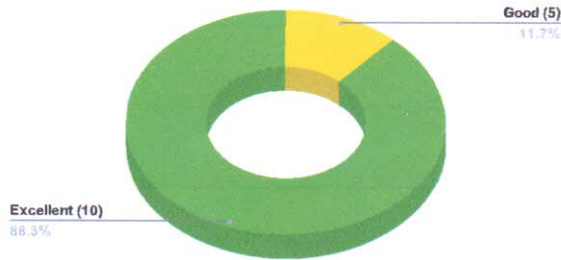
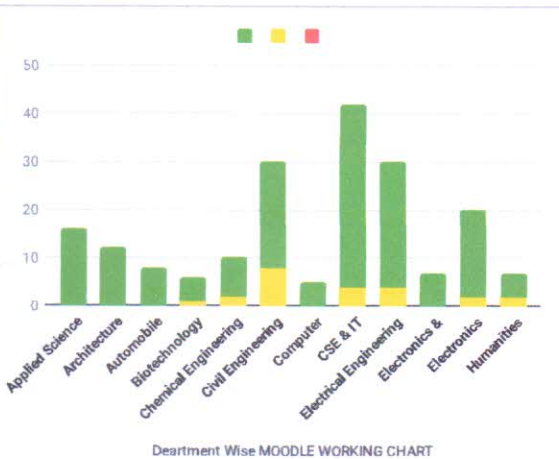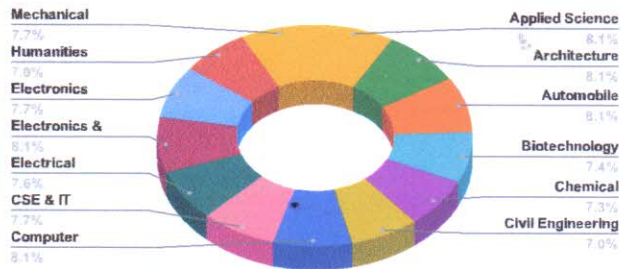**MOODLE WORKING INDEX   Nov-Dec**   **last update   29-Nov-2019**

MOODLE Faculty Working Index	MWI											Grand Total	Total Faculty			MWI	Std. Dav from Avg.	July Report	Department	
Department Name	0	1	2	3	4	5	6	7	8	9	10		Not working (0)	Good (5)	Excellen t (10)				Not Workin g in %	Worin g in %
Applied Science									3	4	9	16	0	0	16	10.00	0.59	5.00	0.00	100.00
Architecture									8	3	1	12	0	0	12	10.00	0.59	2.50	0.00	100.00
Automobile Engineering									2	2	4	8	0	0	8	10.00	0.59	6.25	0.00	100.00
Biotechnology							1	1	1	2	2	6	0	1	5	9.17	-0.25	2.86	0.00	100.00
Chemical Engineering							2	5	1	2		10	0	2	8	9.00	-0.41	4.50	0.00	100.00
Civil Engineering					2	2	4	3	7	12		30	0	8	22	8.67	-0.75	3.70	0.00	100.00
Computer Applications									1		4	5	0	0	5	10.00	0.59	6.25	0.00	100.00
CSE & IT							4	12	10	16		42	0	4	38	9.52	0.11	2.84	0.00	100.00
Electrical Engineering					2		1	1	17	4	5	30	0	4	26	9.33	-0.08	2.50	0.00	100.00
Electronics & Telecommunication										7	7	7	0	0	7	10.00	0.59	3.57	0.00	100.00
Electronics Engneering							2	1	6	11		20	0	2	18	9.50	0.09	3.48	0.00	100.00
Humanities						2			3	2		7	0	2	5	8.57	-0.84	1.25	0.00	100.00
Mechanical Engineering					2		2	3	10	20		37	0	4	33	9.46	0.05	4.24	0.00	100.00
Grand Total	0	0	0	0	2	4	5	16	56	52	95	230	0	27	203	9.41			0.00	100.00

Institute MOODLE Working Index

Good (5) 11.7%
Excellent (10) 88.3%

Department MOODLE Index

Mechanical 7.7%
Humanities 7.0%
Electronics 7.7%
Electronics & 8.1%
Electrical 7.6%
CSE & IT 7.7%
Computer 8.1%
Applied Science 8.1%
Architecture 8.1%
Automobile 8.1%
Biotechnology 7.4%
Chemical 7.3%
Civil Engineering 7.0%

Deartment Wise MOODLE WORKING CHART

Department Growth Chart Aug to Nov
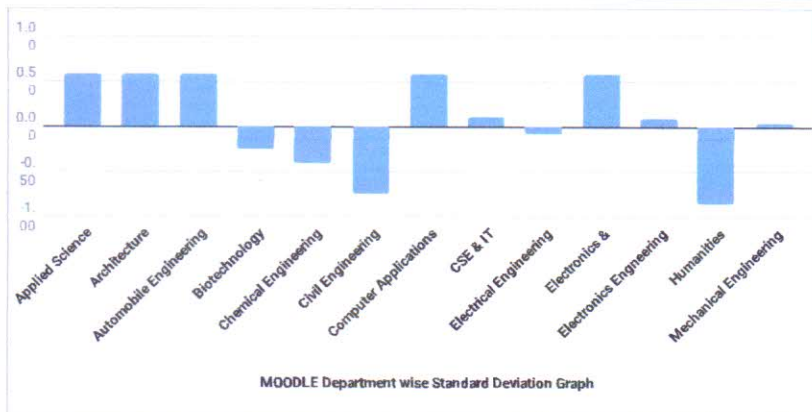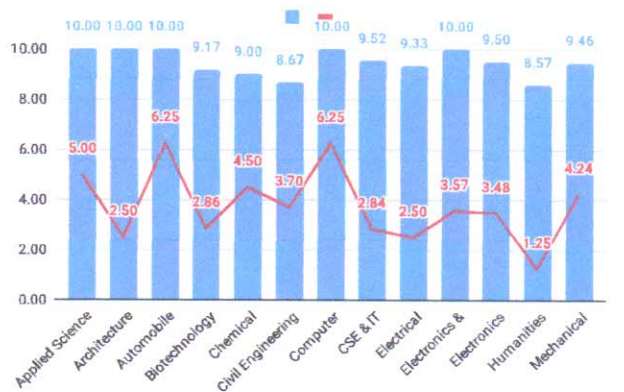
MOODLE Department wise Standard Deviation Graph

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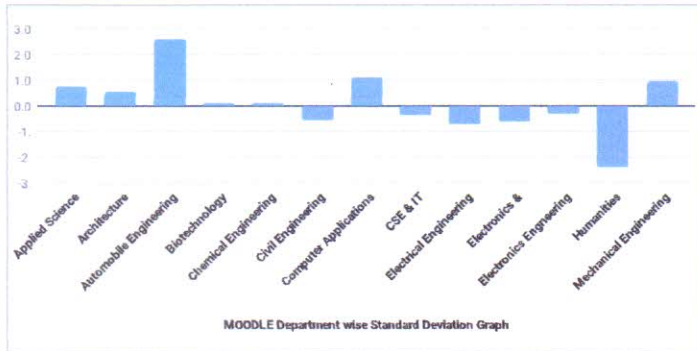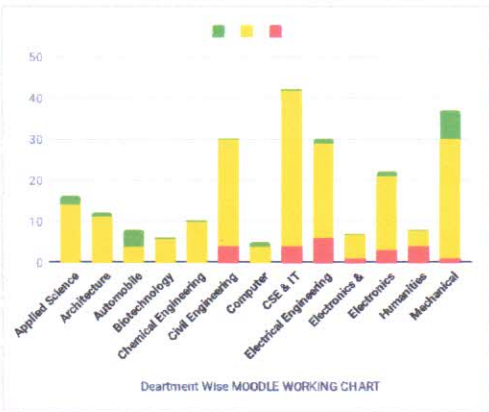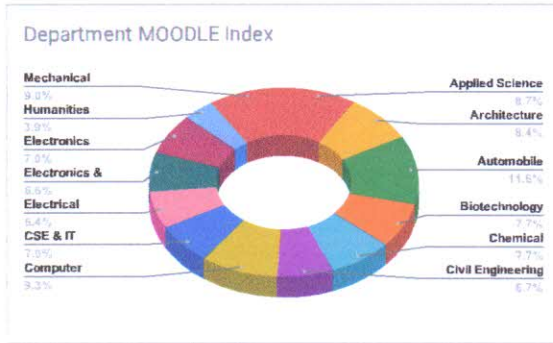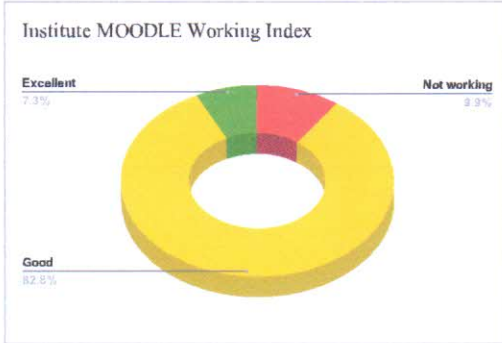
MOODLE WORKING INDEX   **August**   **last update   30-Aug-2019**

MOODLE Faculty Working Index	MWI											Grand Total	Total Faculty			MWI	Std. Dav from Avg.	July Report	Department		
Department Name	0	1	2	3	4	5	6	7	8	9	10	Grand Total	Not working	Good	Excellent	MWI	Std. Dav from Avg.	July Report	Not Working in %	Working In %	
Applied Science					2	1	9	2	2			16	0	14	2	5.63	0.75	5.00	0.00	100.00	Assigned Weights
Architecture					4	3		4	1			12	0	11	1	5.42	0.55	2.50	0.00	100.00	Not working =0
Automobile Engineering					2			2	3		1	8	0	4	4	7.50	2.63	6.25	0.00	100.00	Good = 5
Biotechnology					1	2	3					6	0	6	0	5.00	0.13	2.86	0.00	100.00	Excellent = 10
Chemical Engineering					3	2	1	4				10	0	10	0	5.00	0.13	4.50	0.00	100.00	
Civil Engineering	2	2			1	5	7	13				30	4	26	0	4.33	-0.54	3.70	13.33	86.67	
Computer Applications						1	1	2			1	5	0	4	1	6.00	1.13	6.25	0.00	100.00	
CSE & IT			1	3	12	12	9	5				42	4	38	0	4.52	-0.35	2.84	9.52	90.48	
Electrical Engineering	5		1		7	8	3	5	1			30	6	23	1	4.17	-0.70	2.50	20.00	80.00	
Electronics & Telecommunication		1					2	4				7	1	6	0	4.29	-0.59	3.57	14.29	85.71	
Electronics Engneering	3				3	2	7	6	1			22	3	18	1	4.55	-0.33	3.48	13.64	86.36	
Humanities	3		1		1	1	1	1				8	4	4	0	2.50	-2.37	1.25	50.00	50.00	
Mechanical Engineering		1			8	3	4	14	5	1	1	37	1	29	7	5.81	0.94	4.24	2.70	97.30	
Grand Total	**13**	**4**	**3**	**3**	**44**	**40**	**47**	**62**	**13**	**1**	**3**	**233**	**23**	**193**	**17**	**4.87**				**9.87**	**90.13**

Institute MOODLE Working Index

Department MOODLE Index

Deartment Wise MOODLE WORKING CHART

Department Growth Chart July to Aug

MOODLE Department wise Standard Deviation Graph

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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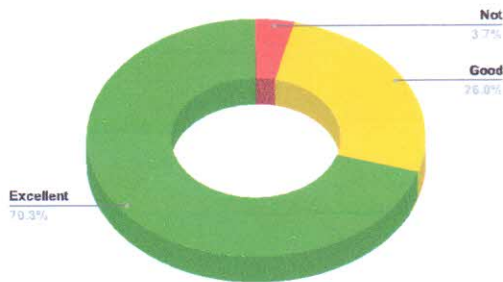
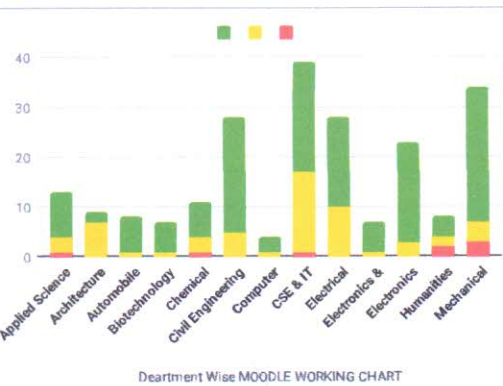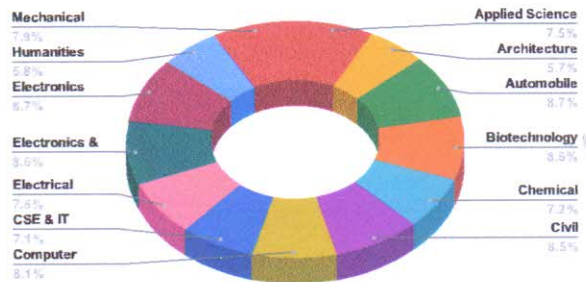**MOODLE WORKING INDEX   MAY**   last update   16-May-2019

MOODLE Faculty Working Index MWI												Total Faculty							
Department Name	0	1	2	3	4	5	6	7	8	9	10	Grand Total	Not working	Good	Excellent	weighted Avg. Feb	Std. Dav from Avg.	weighted Avg. Jan	
Applied Science			1		1		1	1	2	2	5	13	1	3	9	8.08	-0.26	3.85	Assigned Weights
Architecture					3	1	1	2	1	1		9	0	7	2	6.11	-2.22	3.33	Not working =0
Automobile Engineering							1				7	8	0	1	7	9.38	1.04	0.63	Good = 5
Biotechnology						1				2	4	7	0	1	6	9.29	0.95	2.50	Excellent = 10
Chemical Engineering	1					1	1	1		4	3	11	1	3	7	7.73	-0.61	2.69	
Civil Engineering								1	4	11	7	5	28	0	5	23	9.11	0.77	3.62
Computer Applications							1				3	4	0	1	3	8.75	0.42	5.00	
CSE & IT			1		1	3	3	9	9	9	4	39	1	16	22	7.69	-0.64	4.15	
Electrical Engineering						3	4	3	6	7	5	28	0	10	18	8.21	-0.12	3.83	
Electronics & Telecommunication								1			6	7	0	1	6	9.29	0.95	5.00	
Electronics Engneering						1		2	1	6	13	23	0	3	20	9.35	1.01	5.00	
Humanities	1	1				1		1	1	2	1	8	2	2	4	6.25	-2.08	1.88	
Mechanical Engineering	1		1	1			1	3	6	6	15	34	3	4	27	8.53	0.20	1.00	
Grand Total	3	1	3	1	5	11	14	27	37	46	71	219	8	57	154	8.33		3.29	

Institute MOODLE Working Index

Department MOODLE Index

Deartment Wise MOODLE WORKING CHART

Department Growth Chart Jan to May

MOODLE Department wise Standard Deviation Graph

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

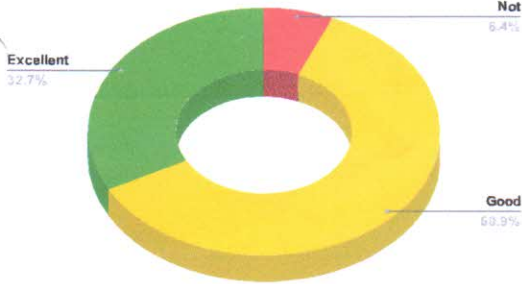(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

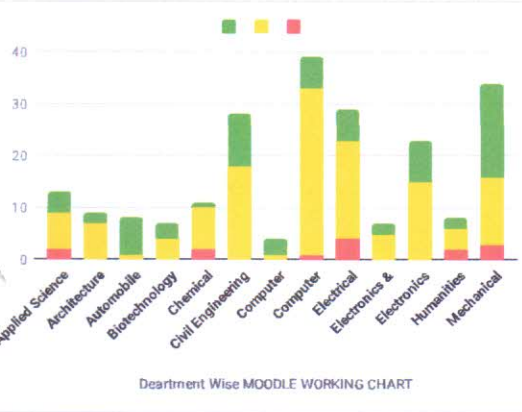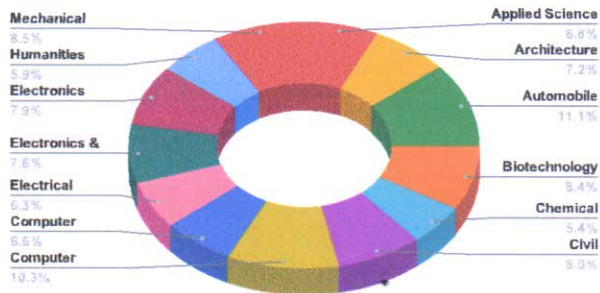**MOODLE WORKING INDEX FEBRUARY** **last update   28-Feb-2019**

MOODLE Faculty Working Index	MWI												Total Faculty						
Department Name	0	1	2	3	4	5	6	7	8	9	10	Grand Total	Not working	Good	Excellent	weighted Avg. Feb	Std. Dav from Avg.	weighted Avg. Jan	
Applied Science			1	1	1	2	2	2	2	2		13	2	7	4	5.77	-0.55	3.85	Assigned Weights
Architecture				3	2	2		2				9	0	7	2	6.11	-0.21	3.33	Not working =0
Automobile Engineering					1			2	1	4		8	0	1	7	9.38	3.06	0.63	Good = 5
Biotechnology					1	1	2			3		7	0	4	3	7.14	0.82	2.50	Excellent = 10
Chemical Engineering	1		1		2	2	4		1			11	2	8	1	4.55	-1.77	2.69	
Civil Engineering					4	14	7		3			28	0	18	10	6.79	0.47	3.62	
Computer Applications						1			2		1	4	0	1	3	8.75	2.43	5.00	
Computer Science and Engineering & IT			1		4	10	9	9	5	1		39	1	32	6	5.64	-0.68	4.15	
Electrical Engineering	2		1	1	2	6	3	8	3	1	2	29	4	19	6	5.34	-0.97	3.83	
Electronics & Telecommunication						5	1	1				7	0	5	2	6.43	0.11	5.00	
Electronics Engneering					3	5	7	3	4	1		23	0	15	8	6.74	0.42	5.00	
Humanities	1	1			1	1	1	1		2		8	2	4	2	5.00	-1.32	1.88	
Mechanical Engineering	1		1	1	2	2	4	5	8	9	1	34	3	13	18	7.21	0.89	1.00	
Grand Total	5	1	5	3	13	30	34	57	35	22	15	220	14	134	72	6.32		3.29	

Institute MOODLE Working Index

Not 6.4%
Excellent 32.7%
Good 60.9%

Department MOODLE Index

Mechanical 8.5%
Humanities 5.9%
Electronics 7.9%
Electronics & 7.6%
Electrical 6.3%
Computer 6.6%
Computer 10.3%

Applied Science 6.8%
Architecture 7.2%
Automobile 11.1%
Biotechnology 8.4%
Chemical 5.4%
Civil 8.0%

Deartment Wise MOODLE WORKING CHART

Department Growth Chart Jan to Feb

MOODLE Department wise Standard Deviation Graph
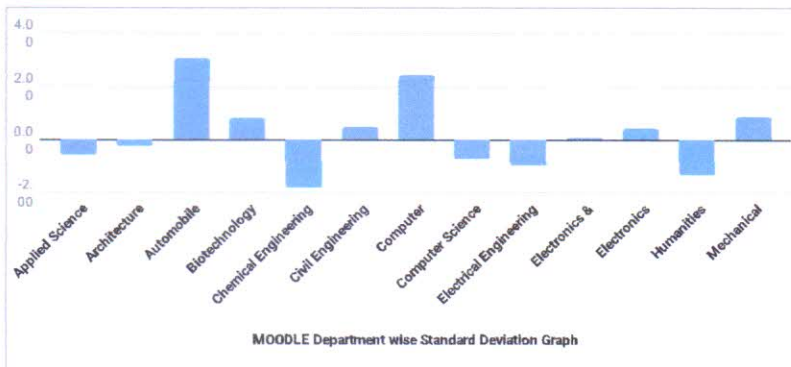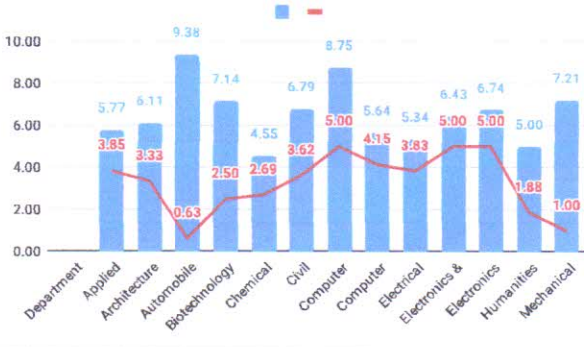
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

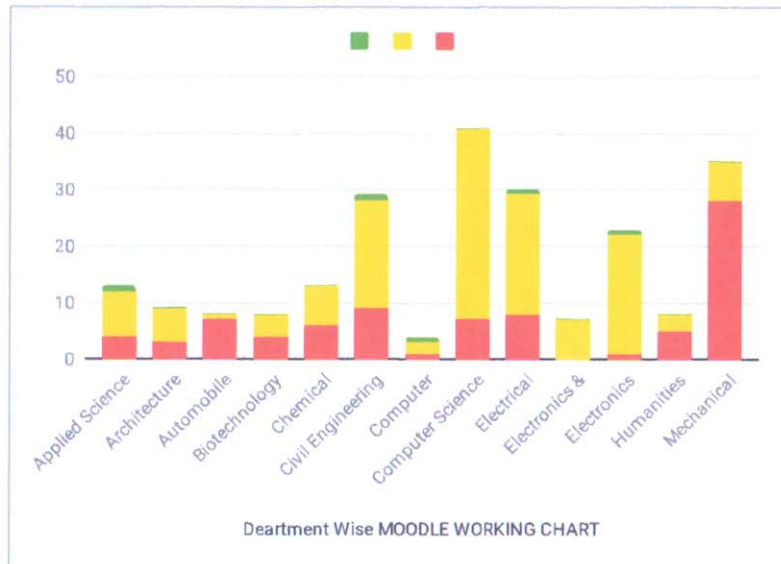(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

MOODLE WORKING INDEX   January   last update   31/01/2019

| MOODLE Faculty Working Index | MWI | | | | | | | | | | | | Total Faculty | | | | |
Department Name	0	1	2	3	4	5	6	7	8	9	10	Grand Total	Poor	Good	Excellent	weighted Avg.	Std. Dav from Avg.
Applied Science	3	1			1	1	2	4	1			13	4	8	1	3.85	0.56
Architecture		1	1	1	2	2	1	1				9	3	6	0	3.33	0.04
Automobile Engineering	3		2	2			1					8	7	1	0	0.63	-2.66
Biotechnology	2			2	1		2	1				8	4	4	0	2.50	-0.79
Chemical Engineering	5		1		1	5	1					13	6	7	0	2.69	-0.60
Civil Engineering	6		1	2	2		4	13	1			29	9	19	1	3.62	0.33
Computer Applications	1							2			1	4	1	2	1	5.00	1.71
Computer Science and Engineering & IT	5		1	1	12	13	6	3				41	7	34	0	4.15	0.86
Electrical Engineering	4		2	2	6	4	6	5		1		30	8	21	1	3.83	0.54
Electronics & Telecommunication					1		4	2				7	0	7	0	5.00	1.71
Electronics Engneering	1				2	4	9	6			1	23	1	21	1	5.00	1.71
Humanities	4		1		1	1		1				8	5	3	0	1.88	-1.41
Mechanical Engineering	8	1	8	11	3	3	1					35	28	7	0	1.00	-2.29
Grand Total	42	3	17	21	31	29	41	39	2	1	2	228	83	140	5	3.29	

Assigned Weights
Poor =0
Good = 5
Excellent = 10

Deartment Wise MOODLE WORKING CHART

Standard Daviation from Avg.

10/2/2021.

DIRECTOR   10.2.23