

## MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.)

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

### Department of Electronics Engineering

#### CO Attainment (Direct & Indirect) & Gap Analysis (Jan - June 2021)

Semester	Course	CO	Direct CO Attainment	Indirect CO Attainment (using feedback)	Total CO Attainment (in %)	CO Attainments in terms of levels	Action taken
II	140211 Electronics Devices	CO1	81.53	85.37	82.30	3	Level of Quiz. Assignment, midsem and endsem should be improved
		CO2	88.21	79.67	86.50	3	Higher order thinking questions can be included in the assignments
		CO3	75.8	81.3	76.90	3	More numericals can be added in assignments
		CO4	74.51	75.61	74.73	3	More tutorials can be given
		CO5	73.58	74.8	73.82	3	More tutorials can be given
	140212 Engineering Materials	CO1	81.16	88.33	82.59	3	Level of Quiz. Assignment, midsem and endsem should be improved
		CO2	89.49	81.67	87.93	3	Higher order thinking questions can be included in the assignments
		CO3	87.35	86.67	87.21	3	Higher order thinking questions can be included in the assignments
		CO4	90.04	81.67	88.37	3	Higher order thinking

							questions can be included in the assignments
		CO5	<b>81</b>	<b>80</b>	<b>80.80</b>	<b>3</b>	Level of Quiz. Assignment, midsem and endsem should be improved
	100015 EEES	CO1	<b>82.13</b>	<b>81.2</b>	<b>81.94</b>	<b>3</b>	Level of Quiz. Assignment, midsem and endsem should be improved
		CO2	<b>67.91</b>	<b>76.8</b>	<b>69.69</b>	<b>2</b>	More assignments should be given and solutions should be discussed
		CO3	<b>78.27</b>	<b>79.7</b>	<b>78.56</b>	<b>3</b>	More numericals can be added in assignments
		CO4	<b>76.78</b>	<b>78.26</b>	<b>77.08</b>	<b>3</b>	More numericals can be added in assignments
		CO5	<b>83.26</b>	<b>73.91</b>	<b>81.39</b>	<b>3</b>	Level of Quiz. Assignment, midsem and endsem should be improved
IV	140401 Electronics-II	CO1	<b>75.35</b>	<b>74.81</b>	<b>75.24</b>	<b>3</b>	More numericals can be added in assignments
		CO2	<b>79.2</b>	<b>70.16</b>	<b>77.39</b>	<b>3</b>	More numericals can be added in assignments
		CO3	<b>75.37</b>	<b>76.36</b>	<b>75.57</b>	<b>3</b>	More numericals can be added in assignments
		CO4	<b>78.67</b>	<b>70.54</b>	<b>77.04</b>	<b>3</b>	More numericals can be added in assignments
		CO5	<b>68.94</b>	<b>72.48</b>	<b>69.65</b>	<b>2</b>	More assignments should be given and solutions should be discussed
	140402 Analog Communication	CO1	<b>85.02</b>	<b>71.32</b>	<b>82.28</b>	<b>3</b>	Level of Quiz. Assignment, midsem and endsem should be improved
		CO2	<b>87.47</b>	<b>70.54</b>	<b>84.08</b>	<b>3</b>	Level of Quiz. Assignment, midsem and endsem should be improved

		CO3	<b>86.35</b>	<b>69.77</b>	<b>83.03</b>	<b>3</b>	Level of Quiz. Assignment, midsem and endsem should be improved
		CO4	<b>91.04</b>	<b>68.99</b>	<b>86.63</b>	<b>3</b>	Higher order thinking questions can be included in the assignments
		CO5	<b>65.26</b>	<b>67.44</b>	<b>65.70</b>	<b>2</b>	More assignments should be given and solutions should be discussed
	140403 Communication Networks	CO1	<b>75.55</b>	<b>71.43</b>	<b>74.73</b>	<b>3</b>	More tutorials can be given
		CO2	<b>87.06</b>	<b>70.95</b>	<b>83.84</b>	<b>3</b>	Level of Quiz. Assignment, midsem and endsem should be improved
		CO3	<b>84.41</b>	<b>67.62</b>	<b>81.05</b>	<b>3</b>	Level of Quiz. Assignment, midsem and endsem should be improved
		CO4	<b>84.23</b>	<b>69.05</b>	<b>81.19</b>	<b>3</b>	Level of Quiz. Assignment, midsem and endsem should be improved
		CO5	<b>72.27</b>	<b>70.95</b>	<b>72.01</b>	<b>3</b>	More tutorials can be given
	140404 Electronics Measurement & Instrumentation	CO1	<b>93.59</b>	<b>71.26</b>	<b>89.12</b>	<b>3</b>	Higher order thinking questions can be included in the assignments
		CO2	<b>90.86</b>	<b>70.5</b>	<b>86.79</b>	<b>3</b>	Higher order thinking questions can be included in the assignments
		CO3	<b>88.14</b>	<b>69.73</b>	<b>84.46</b>	<b>3</b>	Level of Quiz. Assignment, midsem and endsem should be improved
		CO4	<b>87.72</b>	<b>70.15</b>	<b>84.21</b>	<b>3</b>	Level of Quiz. Assignment, midsem and endsem should be improved
		CO5	<b>82.04</b>	<b>70.12</b>	<b>79.66</b>	<b>3</b>	Higher order thinking questions can be included in

VI							the assignments
		CO6	<b>80.77</b>	<b>67.82</b>	<b>78.18</b>	<b>3</b>	More numericals can be added in assignments
	140601 Microprocessor Interfacing	CO1	<b>94.292</b>	<b>80.23</b>	<b>91.48</b>	<b>3</b>	Higher order thinking questions can be included in the assignments
		CO2	<b>96.314</b>	<b>77.4</b>	<b>92.53</b>	<b>3</b>	Higher order thinking questions can be included in the assignments
		CO3	<b>91.81</b>	<b>79.66</b>	<b>89.38</b>	<b>3</b>	Higher order thinking questions can be included in the assignments
		CO4	<b>97.436</b>	<b>74.58</b>	<b>92.86</b>	<b>3</b>	Higher order thinking questions can be included in the assignments
		CO5	<b>93.234</b>	<b>77.97</b>	<b>90.18</b>	<b>3</b>	Higher order thinking questions can be included in the assignments
		CO6	<b>94.292</b>	<b>75.71</b>	<b>90.58</b>	<b>3</b>	Higher order thinking questions can be included in the assignments
	140602 DSP	CO1	<b>76.96</b>	<b>76.13</b>	<b>76.79</b>	<b>3</b>	More numericals can be added in assignments
		CO2	<b>70.4</b>	<b>74.32</b>	<b>71.18</b>	<b>3</b>	More tutorials can be given
		CO3	<b>75.22</b>	<b>74.32</b>	<b>75.04</b>	<b>3</b>	More numericals can be added in assignments
		CO4	<b>77.98</b>	<b>72.52</b>	<b>76.89</b>	<b>3</b>	More numericals can be added in assignments
		CO5	<b>90.12</b>	<b>72.97</b>	<b>86.69</b>	<b>3</b>	Higher order thinking questions can be included in the assignments
	DE-1 Optical Communication	CO1	<b>86.68</b>	<b>76.32</b>	<b>84.61</b>	<b>3</b>	Level of Quiz. Assignment, midsem and endsem should be improved

		CO2	<b>86.72</b>	<b>75.36</b>	<b>84.45</b>	<b>3</b>	Level of Quiz. Assignment, midsem and endsem should be improved
		CO3	<b>93.02</b>	<b>73.91</b>	<b>89.20</b>	<b>3</b>	Higher order thinking questions can be included in the assignments
		CO4	<b>88.54</b>	<b>74.39</b>	<b>85.71</b>	<b>3</b>	Higher order thinking questions can be included in the assignments
		CO5	<b>82.04</b>	<b>78.26</b>	<b>81.28</b>	<b>3</b>	Level of Quiz. Assignment, midsem and endsem should be improved
	DE-1 Antenna	CO1	<b>79.54</b>	<b>80.55</b>	<b>79.74</b>	<b>3</b>	More numericals can be added in assignments
		CO2	<b>92.3</b>	<b>77.77</b>	<b>89.39</b>	<b>3</b>	Higher order thinking questions can be included in the assignments
		CO3	<b>85.704</b>	<b>69.44</b>	<b>82.45</b>	<b>3</b>	Level of Quiz. Assignment, midsem and endsem should be improved
		CO4	<b>81.774</b>	<b>69.44</b>	<b>79.31</b>	<b>3</b>	More numericals can be added in assignments
		CO5	<b>68.67</b>	<b>72.22</b>	<b>69.38</b>	<b>2</b>	More assignments should be given and solutions should be discussed
	DE-1 Telecommunication Switching Network	CO1	<b>84.92</b>	<b>78.79</b>	<b>83.69</b>	<b>3</b>	Level of Quiz. Assignment, midsem and endsem should be improved
		CO2	<b>87.02</b>	<b>81.82</b>	<b>85.98</b>	<b>3</b>	Higher order thinking questions can be included in the assignments
		CO3	<b>86.35</b>	<b>80.3</b>	<b>85.14</b>	<b>3</b>	Higher order thinking questions can be included in the assignments

		CO4	<b>91.04</b>	<b>78.79</b>	<b>88.59</b>	<b>3</b>	Higher order thinking questions can be included in the assignments
		CO5	<b>82.12</b>	<b>77.27</b>	<b>81.15</b>	<b>3</b>	Level of Quiz. Assignment, midsem and endsem should be improved

<b>Total No of courses</b>	<b>Total number of COs</b>	<b>Number of COs NOT attained level 3</b>	<b>Percentage of COs not attained</b>
<b>12</b>	<b>62</b>	<b>4</b>	<b>7%</b>