Department of Electrical Engineering

Internet of Things (EE)

Report on Question Paper Analysis

A one-day workshop on Question paper analysis has been held on dated **21/09/2023** at 11.00am organized by the program -Internet of Things in New Academic Block. The following faculty members have attended the workshop.

1. Dr. Praveen Bansal
2. Dr.Yashwant Sawle
3. Dr. Saurabh Rajput
4. Dr. Bhavna Rathore
5. Dr. Kaushal Pratap Sengar
6. Dr. Murli Manohar
7. Dr. Gaurav Khare

Objective of the workshop: To analyze the End Sem Question papers based on the mapping of QPs with COs, the time limit requirement and the previous existing practices of the institute.

Table 1: Review of End Sem Examination (June 2023)

Subject Name	Subject Code	Semester	%Numerical Questions	% of Logical based Question	% of Application Oriented Question	Faculty
Soft Computing Techniques	220601	VII	–	67.5	32.5	Dr.Murli Manohar
Software Engineering	220602	VII	-	54.0	46.0	Dr. Kaushal Pratap Senger
Database Management System	220401	IV	-	68.75	31.25	Dr. Gaurav Khare
Computer Networks & Protocols	220402	IV	–	75.4	24.6	Dr. Yashwant Sawle
Software Engineering	220407	IV	-	62.0	38.0	Dr. Kaushal Pratap Senger
Microprocessor & Embedded Systems	220404	IV	12	58	30	Dr.Bhavna Rathore
Network and Web Security	220405	IV	22.5	37.5	40	Dr.Murli Manohar
Operating System	220221	II	-	65	35	Dr. Gaurav Khare
Sensor Technology	220222	II	30	46	24	Dr.Bhavna Rathore

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Table 2: Review of End Sem Examination (December 2023)

| Subject Name	Subject Code	Semester	%Numerical Questions	% of Logical based Question	% of Application Oriented Question	Faculty
IoT in Microgrid	220501	V	–	68	32	Dr. Yashwant Sawle
Embedded Control of Electrical Machines	220503	V	14.3	57.1	28.6	Dr. Saurabh Ku. Rajput
IoT Architecture and Protocols	220504	V	-	76	24	Prof. Bhavna Rathore
Basics of Internet of Things	2220122	I	14	56	30	Dr.Bhavna Rathore
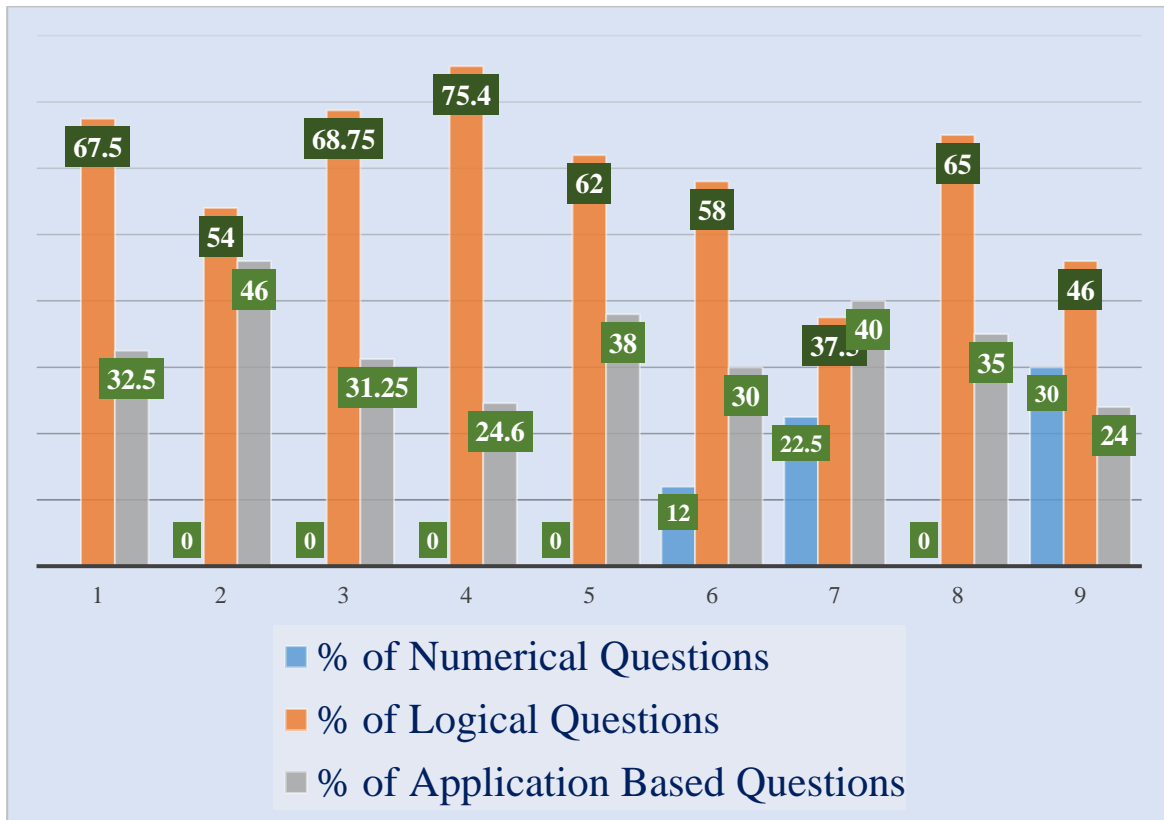
Figure 1: Analysis of all Question Papers (Dec-2023)

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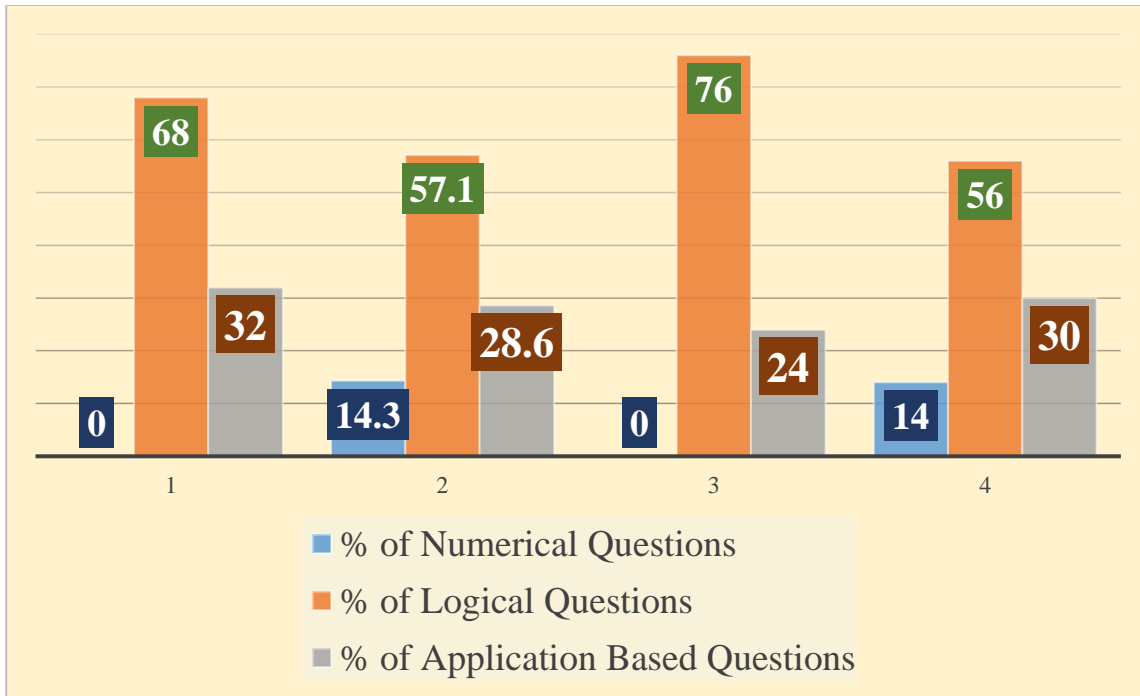
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Figure 2: Analysis of all Question Papers (June-2023)

CO Coverage

Table 3: Review of End Sem Examination (June 2023)

Subject Name	Subject Code	Semester	CO1	CO2	CO3	CO4	CO5	CO6	Faculty
Soft Computing Techniques	220601	VII	20	20	20	20	20		Dr.Murli Manohar
Software Engineering	220602	VII	20	20	20	20	20		Dr. Kaushal Pratap Senger
Data Base Management System	220401	IV	36	8	0	9	30	17	Dr. Gaurav Khare
Computer Networks & Protocols	220402	IV	20	20	20	20	20		Dr. Yashwant Sawle
Software Engineering	220407	IV	20	20	20	20	20		Dr. Kaushal Pratap Senger
Microprocessor & Embedded Systems	220404	IV	20	20	20	20	20		Dr.Bhavna Rathore
Network and Web Security	220405	IV	26	18	18	16	22		Dr.Murli Manohar
Operating System	220221	II	35	39	14	12	0		Dr. Gaurav Khare
Sensor Technology	220222	II	20	20	20	20	20		Dr.Bhavna Rathore

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CO Coverage

Table 4: Review of End Sem Examination (December 2023)

Subject Name	Subject Code	Semester	CO1	CO2	CO3	CO4	CO5	CO6	Faculty
IoT in Microgrid	220501	V	20	20	20	20	20		Dr. Yashwant Sawle
Embedded Control of Electrical Machines	220503	V	20	20	20	20	20		Dr. Saurabh Ku. Rajput
IoT Architecture and Protocols	220504	V	20	20	20	20	20		Prof. Bhavna Rathore
Basics of Internet of Things	2220122	I	20	20	20	20	20		Dr.Bhavna Rathore

Outcomes: Numerous fascinating details were found when examining the question papers of Internet of Things Course from various subjects. The study showed that there was room for improvement in the examination's questions. Here are some outcomes in relation to this:

1. The end-term examination pattern (2,2,6) has been reviewed and it is observed that the existing pattern of the end term examination is suitable for both slow and advanced learners. However, it is suggested that percentage of numerical based questions must be increased in the upcoming semesters and in addition, the application base course may be enhanced.
2. Most of the question papers are solvable in the given time.
3. The coverage of logical questions, application oriented and numerical questions is also analyzed and is deputed in Figure 1 and Figure 2
4. It is observed that all COs were mapped with full syllabus coverage. Detailed analysis is given as shown in Table 3 and Table 4

Dated: 22/09/2023
Dr. Praveen Bansal
Assistant Professor
Coordinator, IoT