

INDUSTRIAL LECTURE

ON

“SEA PORT LOGISTICS, MECHANIZATION AND AUTOMATION”

AUGUST 10, 2019.

An industrial lecture was organized by the Department of Mechanical Engineering on Port Automation, Logistics and Quality Assurance. The lecture was delivered by Mr. Arunil Sharma who is working as Senior Mechanical Engineer and Consultant at RITES Ltd., Paradip Port Trust, India. RITES Ltd. is a Government of India Enterprise and was established in 1974. This company is governed by a Board of Directors which includes persons of eminence from various sectors of Engineering and Management. RITES Ltd. is a multi-disciplinary consultancy organization in the field of transport, infrastructure and related technologies. This expert lecture was organized for 3rd and 4th year Mechanical Engineering students.

Dr. Ranchan Chauhan welcomed the Industrial Expert and introduced his career profile and achievements to the audience. The expert started his talk by introducing the students about industrial environment. He insisted that the material handling in industries is very crucial step which defines the effectiveness of production and margin of profits. The need of material handling in industries and various equipments used for material handling were explained besides discussing the different principles of material handling used by different sectors in industries. He discussed about the working of various material handling equipments like conveyors, hoists, lifters, etc. which are of mechanical interest. The application of industrial automation in ports was discussed in detail. One of the main applications lies in the dredging process employed at the ports. He added that the dredging is process of removing hard rocks and clays from sea bed in order to attain sufficient amount of draft. Dredging process is mainly consist of four phases i.e. excavation, lifting, transportation and disposal which all were discussed deeply with the students. Each of these processes was also shown to the students by small video clips. The students got awareness about various dredging machines like dipper dredger, back hoe dredger, cutter section dredger, trailer suction dredger. The backhoe dredger and the cutter section dredger were explained in detail with suitable working video clips to the students. He also introduced the students with Hypack software which is used for execution of dredging in

different dredging machines. Risk associated with industrial work discussed under risk assessment section which explained various risk factors which should be avoided in industrial works. He concluded his lecture by motivating the students towards industrial applications of Mechanical Engineering. At last the industrial expert was felicitated followed with great applause by the audience.



Glimpse of Industrial Lecture on Industrial Automation and Logistics, August 10, 2019.