

DEPARTMENT OF ELECTRONICS

GUEST LECTURE

DATE: 21-08-2019

RESOURCE PERSON: PROF. HARI PAUL

EX – HOD, Department of Electronics

SFS College, Nagpur

The Department of Electronics of DACN organised a guest lecture on '*Basic Electronics*' on 21st August 2019 from 1pm to 2pm. Guest Speaker was **Prof. Hari Paul**, Ex Head, Department of Electronics SFS College Nagpur .

Prof. V.S. Pawar, Head Dept. Of Electronics presided over the function and welcomed Prof. Hari Paul with a floral bouquet and introduced the guest speaker as an authority in the subject. He was the chairman of the Board of Studies in Electronics of RTM Nagpur University, Nagpur. Prof Hari Paul has experience in the field of Electronics with the demonstrated history of working in the Electronics manufacturing Technology. He is a social activist and has master degree in Electronics from RTMNU, Nagpur and M. Phil from Pune University.

Prof. V.S Pawar said the Basic Electronics is vast subject from resistor, diodes and transistors. Transistor is a transfer of resistance. It is used as a switch, amplifiers. Transistors can be combined together to fabricate Integrated circuits. One IC can perform number of operations.

Prof. Hari Paul began his lecture on "Basic Electronics" with the basic concept of semiconductors. Semiconductors are defined as elements whose conductivity lies between insulator and conductor. Holes are empty space created by electrons. P type material has excess of holes, thus has holes as majority carriers whereas in N type material has excess of electrons, thus electrons are majority charge carriers. Doping in pure semiconductors creates P type and N type materials. In N type material pentavalent impurity is added whereas in P type material trivalent impurity is added. He explained students why carbon cannot be used as semiconductor. The energy gap of carbon is greater than 1.5ev also the property of carbon is highly unstable, and unpredictable and unreliable. Hence carbon is never considered as semiconductor material. He explained transistor and its types. He explained informative knowledge about the basic electronics. The electronics branch is related with every field of science. He not only spoke about the subject but he guided students about the role of moral values in life.

Prof. Dr. N.V Shivarkar presented a small token of appreciation to guest speaker and Ku. Sneha kande and Sneha Sharma, students of B.Sc Sem III computed the program and Prof. Poonam Yadav gave Vote of thanks.



Prof. Hari Paul delivering guest lecture. student attending guest lecture.



Prof. V.S.Pawar introducing the guest speaker . Prof.V.S.Pawar welcoming the guest speaker