



POORNIMA

COLLEGE OF ENGINEERING

An Innovation by PCE Students: Knock Absorber



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Knocking is a technical issue and an ailment of an engine which reduces the life of engine increasing the mechanical failure inside. In knocking the pressure inside the cylinder shoots up beyond the safe limits which puts a shock over the piston which can lead to failure of piston and rattling noise inside the engine. The Students of Mechanical Engineering Department, Poornima College of Engineering, Jaipur, Ravindra Giri, Sachin Kumar & Tanuj Singh under guidance of Dr. Om Prakash Sharma, Mr Shailendra Kasera and Mr Amit Mandal has designed a technique to absorb the knock found inside the engine. Due to this knock absorber, it automatically absorbs high pressure and restricts the shock to impart over the piston under the condition of abnormal pressure. The knock absorber is analogous to shock absorber of automobile suspension system. The students with teachers claims that by this technology a petrol engine can be made to run safely under high temperatures especially when the octane number of fuel is low. It can stop the potential damages which may happen in an engine due to knocking tendency. The college is seeking for getting it patented from the Department of Intellectual Property Rights, Delhi.

