Domestic Causes for Failure in Mathematics by Engineering Students using Induced and Extended Fuzzy Clustering Model

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Abstract

An article published on Feb 5th, 2013 in ‘THE HINDU’ states that “Anna University results fail to add up i.e Majority of the engineering students keep arrears in engineering mathematics than other papers. This year, nearly 60 percent of second-year Anna University students have failed in the mathematics paper in their third semester. ‘In a class of 75 in electronics and communications engineering (ECE), nearly 50 have arrears in mathematics and this is supposed to be the brightest class, as many of the students were in the toppers in the class XII board exams,’ says a third-year ECE student of the college of Engineering, Guindy. Teachers say that it is an ever-growing problem”. As a remedial measure Anna University has introduced Bridge course at the entry level to ensure that the students are equipped with the basics of maths to make a smooth entry into the pursuit of engineering mathematics. We have taken this universal problem for our study in order to identify the dominant causes for such failure to take place. We have analysed this study using the newly proposed model called Induced and Extended Fuzzy Clustering Model (IEFCLM). We have discussed the study in five sections. Section one gives the description of the problem. Section two gives the description of Induced
Extended Fuzzy Clustering model. In section three the problem is analysed using IEFCLM. The fourth section deals with the results and discussions and section five deals with the conclusion and suggestions based on the study.

References

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Index Terms

Computer Science
Fuzzy Systems
Keywords

FCMs, IFCMs, IEFCLM, Hidden pattern, fixed point, Engineering Mathematics, Failure.