

**Document Type** : Thesis

**Document Title** : *Catogories of static modules over rings of endomorphisms*  
أصناف الموديولات المستقرة على حلقات أندونور فزيمات

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**Abstract** : The work is carried out over the category of right  $A$  -modules; where  $A$  is an arbitrary ring, which is always associative and possesses identity. Accordingly, this work is based on a type of module called "static module related to a fixed  $A$  - module  $M$  or " $M$ - static  $A$  -module. The main aim of this thesis is to study static modules and their categories over associative rings with identity. In the course of study it was found convenient to look at these categories via the endomorphism rings defined over some fixed objects. Various equivalences among these categories are obtained. Some necessary and sufficient conditions are derived for self-small modules, presented modules and semi -quasi -projective modules. Their properties in terms of Morita contexts were investigated. The main result proved here is the equivalence of subcategories of  $M$  -presented and  $N$  -presented modules, where  $(A,B,M,N)$  is a Morita context

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