



Fakhruddin Unhas &lt;fakhruddin@unhas.ac.id&gt;

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1 message

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**ISCEE 2021** <iscee@apps.ipb.ac.id>  
Reply-To: iscee@apps.ipb.ac.id  
To: Fakhruddin <fakhruddin@unhas.ac.id>

Sat, Jul 24, 2021 at 2:33 PM



Dear Dr. Fakhruddin.

We have successfully received your full paper, "FLEXURAL BEHAVIOR OF REINFORCED CONCRETE BEAM USING PET PLASTIC AS PARTIAL REPLACEMENT OF COARSE AGGREGATE". Camera ready submission at 25th August 2021

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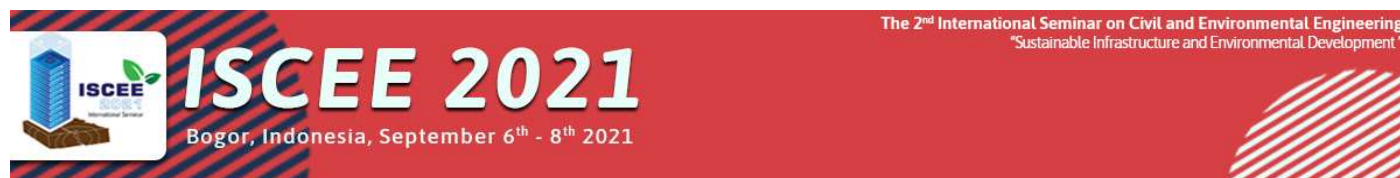
Fakhruddin Unhas &lt;fakhruddin@unhas.ac.id&gt;

## Registration success

1 message

ISCEE 2021 <iscee@apps.ipb.ac.id>  
Reply-To: iscee@apps.ipb.ac.id  
To: Fakhruddin <fakhruddin@unhas.ac.id>

Sat, Jul 24, 2021 at 2:44 PM



Hi Dr. Fakhruddin.

Thankyou, your registration and payment proof has been successfully submitted. The receipt for your payment will be sent soon.

With best regards,  
ISCEE 2021 Committee

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*The 2<sup>nd</sup> International Seminar on Civil and Environmental  
Engineering*

*(2<sup>nd</sup> ISCEE) 2021*

*Bogor, Indonesia, September 6<sup>th</sup> – 8<sup>th</sup>, 2021*

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May 5<sup>th</sup>, 2021

## LETTER OF ACCEPTANCE

Dear Authors: Fakhruddin, Rita Irmawaty, Rudy Djalamuddin, Dio Agatashi Rudy

We are pleased to inform you that your abstract entitled:

“FLEXURAL BEHAVIOR OF REINFORCED CONCRETE BEAM USING PET PLASTIC AS PARTIAL REPLACEMENT OF COARSE AGGREGATE”

Has been **reviewed** and **accepted** for presentation at 2<sup>nd</sup> ISCEE 2021 to be held on September 6<sup>th</sup> – 8<sup>th</sup>, 2021.

Please submit your full paper for further publication process and make payment for the registration fee as the presenter before the deadline through our website [atipb.link-iscee-fullpaper-submission](http://atipb.link-iscee-fullpaper-submission) and [ipb.link-iscee-registration](http://ipb.link-iscee-registration), respectively. Author guideline and template of full paper available at [ipb.link-iscee-fullpaper-template](http://ipb.link-iscee-fullpaper-template). For more information, please visit our website or contact the organizing committee at [iscee@apps.ipb.ac.id](mailto:iscee@apps.ipb.ac.id).

On behalf of the 2<sup>nd</sup> ISCEE 2021 Committee, we greatly appreciate your kind contribution and cooperation in advance, looking forward to meeting you in September this year.

Best regards,

A handwritten signature in blue ink is written over the ISCEE 2021 logo, which includes a stylized building and a green leaf.

Heriansyah Putra

Chairman of Organizing Committee of 2<sup>nd</sup> ISCEE 2021



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Paper Title : FLEXURAL BEHAVIOR OF REINFORCED CONCRETE BEAM USING PET PLASTIC AS PARTIAL REPLACEMENT OF COARSE AGGREGATE

Authors : Fakhruddin, Rita Irmawaty, Rudy Djalamuddin, Dio Agatashi Rudy

Track : Sustainability Structure and Infrastructure on Civil Engineering

Abstract :

In this study, the flexural behavior of reinforced concrete beams using Polyethylene Terephthalate (PET) plastic as partial replacement of coarse aggregate was investigated experimentally. Four beams were tested under static load, which consisted of two control beams (CB) and two PET plastic beams (PB). The dimension of beams was 150 mm x 250 mm and length of 3300 mm. A 10% of coarse aggregate was replaced by using PET plastic. In addition, 0.5% Dramix 3D 80/60 by weight of cement was added to the mixture to increase the tensile strength of the normal concrete and PET concrete. The load-displacement and strain graphs of all beams were drawn and their flexural strength, stiffness, ductility and failure mode were compared and discussed. The results indicated that the flexural strength of PB was decreased by 18.77% compared to CB due to the lower compressive strength of PET concrete. Moreover, all the beams were failed under flexure due to concrete crushing at the compression zone of the beams.

Keywords: PET plastic, flexural behavior

Reviewer's Comment :

- Overall, the abstract was well written though has minor grammatical mistakes
- The method of this study need to be improved
- The authors is recommended to add the brief background in the beginning of abstract
- According to the title and the abstract, the track of the journal is better suited to change to Innovation Material for Civil and Environmental Engineering



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**Reviewer comments and Reply form**

Paper ID : ISCEE\_1 - 025  
 Paper Title : Flexural Behavior of Reinforced Concrete Beam Using Pet Plastic as Partial Replacement of Coarse Aggregate  
 Authors : Fakhruddin, R Irmawaty, R Djameluddin and D A Rudy  
 Recommendation : **Revision is required**  
 Editor and Reviewer's Comments

<b>Editor (Preliminary evaluation)</b>	
<b>Comments for Authors</b>	<b>Authors' Reply</b>
<ol style="list-style-type: none"> <li>The overall score for the similarity index is 25%, so the paper does not meet the 20% similarity requirement. Also, two of the sources has a score above 5%, so we respectfully ask the author to paraphrase the sentence and to reduce the similarity.</li> <li>The entire manuscript still has the minor grammar and spelling correction, please check it carefully and using the English proofread i.e., Grammarly or any related software if possible.</li> </ol>	The similarity index has been reduced.

<b>Reviewer #1</b>	
<b>Comments for Authors</b>	<b>Authors' Reply</b>
<ol style="list-style-type: none"> <li>Interesting paper. However, the similarity index should be reduced for publication</li> <li>The method should be improved</li> <li>The explanation and discussion in the result should be improved</li> </ol> <p>Please find the comment in the manuscript</p>	<ol style="list-style-type: none"> <li>Similarity has been reduced.</li> <li>The method has been improved by explaining the preparation method and size of shredded PET plastic. The standard of casting process has been also added to the content.</li> <li>Explanation and discussion has been improved.</li> </ol>



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Reviewer #2	
Comments for Authors	Authors' Reply
1. Correct the word "Dramix" in abstract	1. Dramix is brand name, so Dramix is removed and change to 3D steel fiber. (Page 1)
2. In subchapter 2.2 Table 2, it shown that the compressive strength between CB and PB is large enough. Explain more about the reason and will it affect the test result?	2. More explanation and discussion has been added to the content (Page 4)
3. In figure 3, change Baja and Beton to English	3. Has been modified (Page 4)
4. In subchapter 2.3, elaborate more about the reason for strain gauge placement at the steel and concrete. Why is it placed there?	4. More explanation has been added to the content (Page 4)
5. In figure 5, explain the reason why CB 1 and CB 2 has quite different result from the middle	5. The explanation about this phenomenon has been explained as follow: <i>"At 25 kN, the stiffness of the PB begins to decrease compared to CB. At this stage, the number of cracks that occur in PB is more than that of CB."</i> (Page 5)
6. In figure 5, explain the reason why PB 1 and PB 2 has quite different result after the linear condition	6. Explanation has been added to the content (Page 5)
7. In Table 3, couldn't see any $\delta_{crack}$ number/result at all.	7. Has been added to the Table 3 (Page 5)
8. In figure 7 and 8, there is PETB, is it different that variant PB? explain if it is different, but if it is the same then it must be made consistent	8. Specimen's name in Figures 7 and 8 has been modified (Page 6)
9. In the first paragraph in subchapter 3.4, it was written for figure 7, yet the value didn't match with the graph	9. A broken line showing the yield strain in steel has been added to Figure 7 to show the

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<p>10. Analyze more about figure 7 and 8</p> <p>11. In figure 7, why is the peak of NB1 is much higher than NB2? And why the graph is so much different, yet NB1 is similar to PETB1? Why the graph between NB1 and NB2 is so much different, yet NB1 is similar to PETB2 and the other way around.</p> <p>12. Recheck the result</p>	<p>correspondence between the descriptions in the paragraph and the figure (Page 6 and 7).</p> <p>10. More explanation has been added to the content (page 6)</p> <p>11. Modification has been made (page 6)</p> <p>12. Has been rechecked.</p>
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