

<p> </p>

<h2 style="text-align: center;">Laporan Akhir Modul 1 Percobaan 1</h2>

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<a href="https://radhi222058.blogspot.com/p/modul-1_27.html"

>[KEMBALI KE MENU SEBELUMNYA]

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DAFTAR ISI

<div style="text-align: left;">

1. Jurnal

</div>

<div style="text-align: left;">

2. Alat dan Bahan

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<div style="text-align: left;">

3. Rangkaian Simulasi

</div>

<div style="text-align: left;">

4. Prinsip Kerja Rangkaian

</div>

<div style="text-align: left;">

5. Video <Percobaan

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<div style="text-align: left;">

6. Analisa

</div>

<div style="text-align: left;">

7. Link Download

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1. Jurnal

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>b.&nbsp;IC 7404</span
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        >c. IC 7432</span
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Gambar 7. Switch
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>d. Logic probe atau LED
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 >Gambar 8. Logic Probe

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><b>3. Rangkaian Simulasi</b>

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<a href="#home">[Kembali]</a></span

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#### 4. Prinsip Kerja Rangkaian

`<a href="#home">[Kembali]</a></span`

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>    </>1. Gerbang NOT menghasilkan output berupa

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 kebalikan dari inputnya.

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 > 2. Gerbang AND menggunakan prinsip perkalian aljabar
 boolean. Sehingga jika salah satu input berlogika nol, maka output
 yang dihasilkan adalah logika nol.
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 style='font-family: "times" , "times new roman" , serif; font-size: small;'
 > 3. Gerbang OR menggunakan prinsip perjumlahan
 aljabar boolean. Sehingga jika salah satu input berlogika satu, maka
 output yang dihasilkan adalah logika satu.
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 > 4. Gerbang XOR menghasilkan output
 berupa logika 1 jika kedua input memiliki logika yang berbeda.
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 > 5. Gerbang NAND adalah gabungan dari gerbang AND
 dan NOT. Sehingga jika salah satu input berlogika nol, maka output yang
 dihasilkan adalah logika satu.
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 > 6.Gerbang NOR adalah gabungan dari
 gerbang OR dan NOT. Sehingga jika salah satu input berlogika satu, maka
 output yang dihasilkan adalah logika nol.
</div>
<div>
 <span style='font-family: "times" , "times new roman" , serif;'
 ><span
 style='font-family: "times" , "times new roman" , serif; font-size: small;'
 > 7.Gerbang XNOR<span style='font-family: times, "times new roman" , serif;'
 >adalah gabungan dari gerbang XOR dan NOT. Sehingga gerbang
 XNOR

```

```

><span style='font-family: times, "times new roman", serif;'
 >menghasilkan output berupa logika 1 jika kedua input memiliki logika yang
 sama.
</div>
<div>

</div>
<div>
 <span style='font-family: "times" , "times new roman" , serif;'
 ><span
 style='font-family: "times" , "times new roman" , serif; font-size: small;'
 >5. Video Percobaan [Kembali]

 <span style='font-family: "times" , "times new roman" , serif;'
 ><span
 style='font-family: "times" , "times new roman" , serif; font-size: small;'
 ><div class="separator" style="clear: both; text-align: center;">

 </div>
 <div class="separator" style="clear: both; text-align: center;">
 <iframe
 allowfullscreen=""
 class="BLOG_video_class"
 height="266"
 src="https://www.youtube.com/embed/76dHdZ1qrDA"
 width="320"
 youtube-src-id="76dHdZ1qrDA"
 ></iframe>
 </div>

```

[illegible]



```

> Jawab: Nilai dari inputan sangat menentukan dari output
dikeluarkan oleh setiap gerbang logika. Dimana setiap gerbang logika
memiliki prinsip yang berbeda, yang mana hal tersebut menjadikan output
bervariasi jika inputnya juga bervariasi. berikut penjabarannya:
</div>
<div style="text-align: justify;">
<div style="text-align: left;">
<span style='font-family: "times" , "times new roman" , serif;'
><span
style='font-family: "times" , "times new roman" , serif; font-size: small;'
>1. Gerbang NOT menghasilkan output berupa kebalikan dari
inputnya.

</div>
<div style="text-align: left;">
<span style='font-family: "times" , "times new roman" , serif;'
><span
style='font-family: "times" , "times new roman" , serif; font-size: small;'
> 2. Gerbang AND menggunakan prinsip perkalian
aljabar boolean. Sehingga jika salah satu input berlogika nol,
maka output yang dihasilkan adalah logika nol.

</div>
<div style="text-align: left;">

```

```

<span style='font-family: "times" , "times new roman" , serif;'
><span
 style='font-family: "times" , "times new roman" , serif; font-size: small;'
 > 3. Gerbang OR menggunakan prinsip
 perjumlahan aljabar boolean. Sehingga jika salah satu input
 berlogika satu, maka output yang dihasilkan adalah logika
 satu.
</div>
<div style="text-align: left;">
<span style='font-family: "times" , "times new roman" , serif;'
><span
 style='font-family: "times" , "times new roman" , serif; font-size: small;'
 > 4. Gerbang XOR menghasilkan
 output berupa logika 1 jika kedua input memiliki logika yang
 berbeda.
</div>
<div style="text-align: left;">
<span style='font-family: "times" , "times new roman" , serif;'
><span
 style='font-family: "times" , "times new roman" , serif; font-size: small;'
 > 5. Gerbang NAND adalah gabungan dari
 gerbang AND dan NOT. Sehingga jika salah satu input berlogika nol,
 maka output yang dihasilkan adalah logika satu.
</div>
<div style="text-align: left;">

```

```

<span style='font-family: "times" , "times new roman" , serif;'
><span
 style='font-family: "times" , "times new roman" , serif; font-size: small;'
 > 6. Gerbang NOR adalah gabungan
 dari gerbang OR dan NOT. Sehingga jika salah satu input berlogika
 satu, maka output yang dihasilkan adalah logika nol.
</div>
<div style="text-align: left;">
 <span style='font-family: "times" , "times new roman" , serif;'
 ><span
 style='font-family: "times" , "times new roman" , serif; font-size: small;'
 > 7. Gerbang XNOR <span style='font-family: times, "times new roman", serif;'
 >adalah gabungan dari gerbang XOR dan NOT. Sehingga gerbang
 XNOR <span style='font-family: times, "times new roman", serif;'
 >menghasilkan output berupa logika 1 jika kedua input memiliki
 logika yang sama.
 </div>
</div>
<div style="text-align: justify;">

 >
</div>

```

<div style="text-align: justify;">

<span

><span><span>&nbsp; &nbsp; &nbsp;</span></span></span>

>

</div>

<div style="text-align: justify;">

<span

><span

><span

><span>&nbsp; &nbsp; &nbsp;</span>2. Analisa pengaruh clock untuk  
setiap output pada gerbang logika!</span>

></span>

></span>

>

</div>

<div style="text-align: justify;">

<span

><span

><span

><span>&nbsp; &nbsp; &nbsp;</span>

><span>&nbsp; &nbsp; Jawab:</span>&nbsp;</span>

><br /></span>

></span>

</div>

<div style="text-align: justify;">

<span

><span

><span>&nbsp; &nbsp; &nbsp;</span>

><span>&nbsp; &nbsp; A. gerbang NOT</span></span>

></span>

>

&lt;/div&gt;

<div style="text-align: justify;">

<span

><span

><span

><span>&nbsp;&nbsp;& &nbsp;</span><span>&nbsp;&nbsp;& &nbsp;</span>

><span>&nbsp; &nbsp; P</span>

><span

>ada out terlihat grafik yang merupakan kebalikan dari clock</span>

><br /></span></span>

></span>

&lt;/div&gt;

<div style="text-align: justify;">

<span

><span

><span

><span

><span>&nbsp;&nbsp;&nbsp;&nbsp;</span

><span>&nbsp; &nbsp; B. gerbang AND</span><br /></span></span></span>

>

&lt;/div&gt;

<div style="text-align: justify;">

<span

><span

><span

><span

><span

><span>&nbsp;&nbsp;&nbsp;&nbsp;</span><span>&nbsp;&nbsp;&nbsp;&nbsp;</span

><span>&nbsp;&nbsp;&nbsp;&nbsp;</span

><span

>input b1:0 = output konstan nol , input b1:1 =

```

 output
 >
 >
 >
 >
 >
 > sama dengan clock
</div>
<div style="text-align: justify;">
 C. gerbang OR
</div>
<div style="text-align: justify;">

 >
 >input b1:0 = output sama dengan clock , input b1:1 = output
 > konstan bernilai 1
</div>
<div style="text-align: justify;">
 D. gerbang XOR
 >

</div>
<div style="text-align: justify;">

 >
 >
 >
 >input b1:0 = output sama dengan nol, input b1:1 = output kebalikan
 dari
 >clock
</div>
<div style="text-align: justify;">

```

```
 E. gerbang NAND

</div>

<div style="text-align: justify;">

 >
 >
 >input b1:0 = output konstan 1 , input b1:1 = output
 > &berkebalikan dengan clock
 </div>

 <div style="text-align: justify;">
 F. gerbang NOR

 </div>

 <div style="text-align: justify;">

 >
 >
 >
 >input b1:0 = output berkebalikan dengan clock , input b1:1 = output
 > &berlogika nol
 </div>

 <div style="text-align: justify;">
 G. gerbang XNOR

 </div>

 <div style="text-align: justify;">

 >
 >
 >input b1:0 = output berkebalikan clock , input b1:1 = output
```

[illegible]



```
><div
 style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"
>
```

```
<div
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>
<a
```

href="https://docs.google.com/document/d/1hGC8FXKWyMkdze-6NgbGWaEhTyrYUrykk-d0WiW19jl/edit?usp=sharing"

```
>HTML
```

```
</div>
```

```
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>
<a
```

href="https://drive.google.com/file/d/1P4RInjQNwK9fNK1BOGuzS7vMxP0fCuRm/view?usp=sharing"

```
>Video Percobaan
```

```
</div>
```

```
<div
 style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"
>


```

```
</div></div>
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>
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</div>
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</div>
```

```



```