

## LAMPIRAN

### LISTING PROGRAM

#### Login\_User Controllers

```
<?php                                $username = $this->request-
                                        >getPostGet('username');

namespace App\Controllers\admin;      $password = $this->request-
                                        >getPostGet('password');

use App\Controllers\BaseController;

use App\Models\DataAdmin;             $session = session();

use App\RCore\Setting;                 $model = new DataAdmin();

                                        $data = $model-

class Login extends BaseController     >where('username', $username)-
{                                       >first();

    public function index()           if ($data) {

    {                                   $pass = $data['password'];

        if ($this->request->getPost() == $verify_pass = $this-
null) {                               >password_sama($password, $pass);

            return view("tmp/" .      if ($verify_pass) {

Setting::instance()->lg . '/login'); $ses_data = [

    }
}
```



```

    $session->destroy();

    return redirect()-
>to(base_url(route_to('admin.login')));
}
}

```

```

public function __construct()
{
    $this->data['nama_halaman'] =
'Data Pengajuan Judul';
}

```

### **Pengajuan\_Judul\_User Controllers**

```

<?php

namespace
App\Controllers\mahasiswa;

use App\Controllers\BaseController;
use
App\Repo\mahasiswa\DataPengajuanJ
udulRepo;

class DataPengajuanJudul extends
BaseController
{

```

```

public function index()
{
    $berdasarkan = $this->request-
>getPostGet("Berdasarkan");

    $isi = $this->request-
>getPostGet("isi");

    if ($berdasarkan && $isi) {
        $data_pengajuan_judul =
DataPengajuanJudulRepo::tampil_berd
asarkan($berdasarkan, $isi);
    } else {
        $data_pengajuan_judul =
DataPengajuanJudulRepo::tampil();
    }
}

```

```

        $data_pengajuan_judul-
>where("id_mahasiswa", session()-
>get('mahasiswa_id'));

        $this-
>data['data_pengajuan_judul'] =
        $data_pengajuan_judul->paginate(15);

        $this->data['pager'] =
        $data_pengajuan_judul->pager;

        $this->data['desc_tabel'] =
        DataPengajuanJudulRepo::desc_tabel(
);

        return
        view("mahasiswa/data_pengajuan_jud
        ul/tampil", $this->data);
    }

    public function tambah()
    {
        if ($this->request->getPost()) {
            if (!$this->validate($this-
>validate_simpan())) {

                $this->data['validation'] =
                $this->validator;
            } else {

                DataPengajuanJudulRepo::simpan([
                    "id_pengajuan_judul" =>
                    $this->request-
                    >getPost("id_pengajuan_judul"),
                    "id_mahasiswa" => $this-
                    >request->getPost("id_mahasiswa"),
                    "tanggal_pengajuan" =>
                    $this->request-
                    >getPost("tanggal_pengajuan"),
                    "judul_skripsi" => $this-
                    >request->getPost("judul_skripsi"),
                    // 'file_proposal' => $this-
                    >upload('file_proposal'),
                    "pembimbing_satu" =>
                    $this->request-
                    >getPost("pembimbing_satu"),

```

```

        "pembimbing_dua" =>
$this->request-
>getPost("pembimbing_dua"),
        "status" => $this-
>request->getPost("status"),
        "catatan" => $this-
>request->getPost("catatan")
    });

\SweetAlert::alert_berhasil("Data
berhasil disimpan");

    return $this->response-
>redirect(base_url(route_to("mahasisw
a.data_pengajuan_judul")));
    }
}

return
view("mahasiswa/data_pengajuan_jud
ul/tambah", $this->data);
}

public function edit()
    {
        $proses = $this->request-
>getPostGet("proses");
        if ($this->request->getPost()) {
            if (!$this->validate($this-
>validate_edit())) {
                $this->data['validation'] =
$this->validator;
            } else {
                $where = [
                    "id_pengajuan_judul" =>
$this->request-
>getPost("id_pengajuan_judul")
                ];
                $forms = [
                    "id_mahasiswa" => $this-
>request->getPost("id_mahasiswa"),
                    "tanggal_pengajuan" =>
$this->request-
>getPost("tanggal_pengajuan"),
                    "judul_skripsi" => $this-
>request->getPost("judul_skripsi"),

```

```

        // 'file_proposal' => $this->request->getPost('file_proposal');
    >upload('file_proposal'),
        "pembimbing_satu" => $this->request->getPost("pembimbing_satu"),
        "pembimbing_dua" => $this->request->getPost("pembimbing_dua"),
        "status" => $this->request->getPost("status"),
        "catatan" => $this->request->getPost("catatan")
    ];
    if ($forms['file_proposal'] == null) {
        unset($forms['file_proposal']);
    }

    public function cetak()
    {
        $where, $berdasarkan = $this->request->getPostGet("Berdasarkan");
        DataPengajuanJudulRepo::ubah(
    
```

```

        $isi = $this->request-
>getPostGet("isi");
        $tanggal1 = $this->request-
>getPostGet("tanggal1");
        $tanggal2 = $this->request-
>getPostGet("tanggal2");
        if ($berdasarkan) {
            if ($tanggal1) {
                $this->data['datas'] =
DataPengajuanJudulRepo::cetak_berda
sarkan_tanggal($berdasarkan,
$tanggal1, $tanggal2);
            } else {
                $this->data['datas'] =
DataPengajuanJudulRepo::cetak_berda
sarkan($berdasarkan, $isi);
            }
        } else {
            $this->data['datas'] =
DataPengajuanJudulRepo::cetak_semu
a();
        }

        return
view("mahasiswa/data_pengajuan_jud
ul/cetak", $this->data);
    }

    private function validate_edit()
    {
        $rule = [
            'id_pengajuan_judul' =>
'required',
            'id_mahasiswa' => 'required',
            'tanggal_pengajuan' =>
'required',
            'judul_skripsi' => 'required',
            // 'file_proposal' =>
'uploaded[file_proposal]|max_size[file
_proposal,2048]|mime_in[file_proposa
l,application/pdf,application/msword,a
pplication/vnd.openxmlformats-
officedocument.wordprocessingml.doc
ument]',

```

```

        'pembimbing_satu' =>
'required',
        'pembimbing_dua' =>
'required',
        'status' => 'required', 'catatan'
=> 'required'
    ];
    return $rule;
}

private function validate_simpan()
{
    $rule = [
        'id_pengajuan_judul' =>
'required',
        'id_mahasiswa' => 'required',
        'tanggal_pengajuan' =>
'required',
        'judul_skripsi' => 'required',
        // 'file_proposal' =>
'uploaded[file_proposal]|max_size[file
_proposal,2048]|mime_in[file_proposa
l,application/pdf,application/msword,a
pplication/vnd.openxmlformats-
officedocument.wordprocessingml.doc
ument]',
        'pembimbing_satu' =>
'required',
        'pembimbing_dua' =>
'required',
        'status' => 'required',
        'catatan' => 'required'
    ];
    return $rule;
}

public function hapus($proses)
{
    DataPengajuanJudulRepo::hapus($pro
ses);
    $this->session-
>setFlashData("pesan", "Data berhasil
dihapus");
}

```



```

        return $this->response-
>redirect(base_url(route_to("mahasisw
a.data_pengajuan_judul")));
    }

```

```

    public function detail()
    {
        $proses = $this->request-
>getPostGet("proses");

        $this->data['data'] =
DataPengajuanJudulRepo::detail($pros
es);

        return
view("mahasiswa/data_pengajuan_jud
ul/detail", $this->data);
    }

```

```

    private function upload(string $key)
    {
        $file = $this->request-
>getFile($key);

```

```

        if (!$file->isValid()) {
            return null;
        }

        $fileName = $file-
>getRandomName();

        $file->move(PUBLIC_PATH .
'uploads/', $fileName);

        return $fileName;
    }
}

```

### **Bimbingan\_User Controllers**

```

<?php

namespace
App\Controllers\mahasiswa;

use App\Controllers\BaseController;

use
App\Repo\mahasiswa\DataBimbingan
Repo;

```

```

class DataBimbingan extends
BaseController
{
    public function __construct()
    {
        $this->data['nama_halaman'] =
'Data Bimbingan';
    }

    public function index()
    {
        $berdasarkan = $this->request-
>getPostGet("Berdasarkan");
        $isi = $this->request-
>getPostGet("isi");
        if ($berdasarkan && $isi) {
            $data_bimbingan =
DataBimbinganRepo::tampil_berdasar
kan($berdasarkan, $isi);
        } else {
            $data_bimbingan =
DataBimbinganRepo::tampil();
        }
        $data_bimbingan-
>where("id_mahasiswa", session()-
>get('mahasiswa_id'));
        $this->data['data_bimbingan'] =
$data_bimbingan->paginate(15);
        $this->data['pager'] =
$data_bimbingan->pager;
        $this->data['desc_tabel'] =
DataBimbinganRepo::desc_tabel();
        return
view("mahasiswa/data_bimbingan/tam
pil", $this->data);
    }

    public function tambah()
    {
        if ($this->request->getPost()) {
            if (!$this->validate($this-
>validate_simpan())) {

```

```

                $this->data['validation'] = "pembimbing_dua" =>
$this->validator;
                $this->request->getPost("pembimbing_dua"),
                } else {
                "status" => $this->request->getPost("status"),
                DataBimbinganRepo::simpan([
                "id_bimbingan" => "status_pembimbing_dua"
                $this->request->getPost("id_bimbingan"),
                => $this->request->getPost("status_pembimbing_dua"),
                "id_mahasiswa" => "catatan_revisi" =>
                $this->request->getPost("catatan_revisi")
                "tanggal_bimbingan" =>
                ]);
                $this->request->getPost("tanggal_bimbingan"),
                \SweetAlert::alert_berhasil("Data
                'file_bimbingan' => berhasil disimpan");
                $this->upload('file_bimbingan'),
                return $this->response->redirect(base_url(route_to("mahasiswa.data_bimbingan")));
                'file_bimbingan_dua' =>
                $this->upload('file_bimbingan_dua'),
                "pembimbing_satu" =>
                $this->request->getPost("pembimbing_satu"),

```

```

        return
view("mahasiswa/data_bimbingan/tam
bah", $this->data);
    }

    public function edit()
    {
        $proses = $this->request-
>getPostGet("proses");

        if ($this->request->getPost()) {
            if (!$this->validate($this-
>validate_edit())) {
                $this->data['validation'] =
$this->validator;
            } else {
                $where = [
                    "id_bimbingan" => $this-
>request->getPost("id_bimbingan")
                ];

                $forms = [
                    "id_mahasiswa" =>
$this->request-
>getPost("id_mahasiswa"),
                    "tanggal_bimbingan" =>
$this->request-
>getPost("tanggal_bimbingan"),
                    'file_bimbingan' => $this-
>upload('file_bimbingan'),
                    'file_bimbingan_dua' =>
$this->upload('file_bimbingan_dua'),
                    'pembimbing_satu' =>
$this->request-
>getPost("pembimbing_satu"),
                    'pembimbing_dua' =>
$this->request-
>getPost("pembimbing_dua"),
                    'status' => $this-
>request->getPost("status"),
                    'status_pembimbing_dua'
=> $this->request-
>getPost("status_pembimbing_dua"),

```

```

        'catatan_revisi' =>
$this->request-
>getPost("catatan_revisi")
];

        if ($forms['file_bimbingan']
== null) {
unset($forms['file_bimbingan']);
}
// Check if
file_bimbingan_dua is present in the
request
        if
($forms['file_bimbingan_dua'] ==
null) {
unset($forms['file_bimbingan_dua']);
}

        DataBimbinganRepo::ubah($where,
$forms);

\SweetAlert::alert_berhasil("Data
berhasil diubah");

        return $this->response-
>redirect(base_url(route_to("mahasisw
a.data_bimbingan")));
}
}

        $this->data["data"] =
DataBimbinganRepo::detail($proses);
return
view("mahasiswa/data_bimbingan/edit
", $this->data);
}

public function cetak()
{

```

```

        $berdasarkan = $this->request-
    }
    >getPostGet("Berdasarkan");
        return
        $isi = $this->request-
    view("mahasiswa/data_bimbingan/ceta
    >getPostGet("isi");
    k", $this->data);
        $tanggal1 = $this->request-
    }
    >getPostGet("tanggal1");
        $tanggal2 = $this->request-
    private function validate_edit()
    >getPostGet("tanggal2");
    {
        if ($berdasarkan) {
            $rule = [
                'id_bimbingan' => 'required',
                'id_mahasiswa' =>
                'required',
                'tanggal_bimbingan' =>
                'required',
                'file_bimbingan' =>
                'uploaded[file_bimbingan]|max_size[fi
                le_bimbingan,2048]|mime_in[file_bim
                bingan,application/pdf,application/ms
                word,application/vnd.openxmlformats-
                officedocument.wordprocessingml.doc
                ument]|permit_empty',
            ];
        }
        $this->data['datas'] =
        DataBimbinganRepo::cetak_berdasark
        an_tanggal($berdasarkan, $tanggal1,
        $tanggal2);
        } else {
            $this->data['datas'] =
            DataBimbinganRepo::cetak_berdasark
            an($berdasarkan, $isi);
        }
        } else {
            $this->data['datas'] =
            DataBimbinganRepo::cetak_semua();
        }
    }
}

```

```

        'file_bimbingan_dua' =>
'uploaded[file_bimbingan_dua]|max_si
ze[file_bimbingan_dua,2048]|mime_in
[file_bimbingan_dua,application/pdf,a
pplication/msword,application/vnd.ope
nxmlformats-
officedocument.wordprocessingml.doc
ument]|permit_empty',
        'pembimbing_satu' =>
'required',
        'pembimbing_dua' =>
'required',
        'status' => 'required',
        'status_pembimbing_dua' =>
'required'
];
return $rule;
}

private function validate_simpan()
{
    $rule = [

```

```

        'id_bimbingan' => 'required',
        'id_mahasiswa' =>
'required',
        'tanggal_bimbingan' =>
'required',
        'file_bimbingan' =>
'uploaded[file_bimbingan]|max_size[fi
le_bimbingan,2048]|mime_in[file_bim
bingan,application/pdf,application/ms
word,application/vnd.openxmlformats-
officedocument.wordprocessingml.doc
ument]',
        'file_bimbingan_dua' =>
'uploaded[file_bimbingan_dua]|max_si
ze[file_bimbingan_dua,2048]|mime_in
[file_bimbingan_dua,application/pdf,a
pplication/msword,application/vnd.ope
nxmlformats-
officedocument.wordprocessingml.doc
ument]',

```

```

        'pembimbing_satu' =>                }
'permit_empty',
        'pembimbing_dua' =>                public function detail()
'permit_empty',                            {
        'status'      => 'required',        $proses = $this->request-
        'status_pembimbing_dua' =>        >getPostGet("proses");
'required'                                  $this->data['data'] =
        ];                                  DataBimbinganRepo::detail($proses);
        return $rule;                        return
    }                                         view("mahasiswa/data_bimbingan/deta
                                           il", $this->data);
                                           }

    public function hapus($proses)

    {

        private function upload(string $key)
        {
DataBimbinganRepo::hapus($proses);        $file = $this->request-
        $this->session-                       >getFile($key);
        >setFlashData("pesan", "Data berhasil
        dihapus");                            if (!$file->isValid()) {
        return $this->response-                return null;
        >redirect(base_url(route_to("mahasisw
        a.data_bimbingan"))));                }

```



```

        $fileName = $file-
>getRandomName();
        $file->move(PUBLIC_PATH .
'uploads/', $fileName);
        return $fileName;
    }
    public function kartu()
    {
        $berdasarkan = $this->request-
>getPostGet("Berdasarkan");
        $isi = $this->request-
>getPostGet("isi");
        if ($berdasarkan && $isi) {
            $data_bimbingan =
DataBimbinganRepo::tampil_berdasar
kan($berdasarkan, $isi);
        } else {
            $data_bimbingan =
DataBimbinganRepo::tampil();
        }
    }

```

```

        $data_bimbingan-
>where("id_mahasiswa", session()-
>get('mahasiswa_id'));
        $this->data['data_bimbingan'] =
$data_bimbingan->paginate(15);
        $this->data['pager'] =
$data_bimbingan->pager;
        $this->data['desc_tabel'] =
DataBimbinganRepo::desc_tabel();
        return
view("mahasiswa/data_bimbingan/kart
u", $this->data);
    }
}

```

### **Jadwal\_Sidang\_User Controllers**

```

<?php
namespace App\Controllers\admin;
use App\Controllers\BaseController;

```

```

use App\Repo\admin\DataJadwalSidangRepo;

class DataJadwalSidang extends BaseController
{
    public function __construct()
    {
        $this->data['nama_halaman'] = 'Data Jadwal Sidang';
    }

    public function index()
    {
        $berdasarkan = $this->request->getPostGet("Berdasarkan");
        $isi = $this->request->getPostGet("isi");

        if ($berdasarkan && $isi) {
            $data_jadwal_sidang = DataJadwalSidangRepo::tampil_berdasarkan($berdasarkan, $isi);
        } else {
            $data_jadwal_sidang = DataJadwalSidangRepo::tampil();
        }

        $this->data['data_jadwal_sidang'] = $data_jadwal_sidang->paginate(15);
        $this->data['pager'] = $data_jadwal_sidang->pager;
        $this->data['desc_tabel'] = DataJadwalSidangRepo::desc_tabel();

        return view("admin/data_jadwal_sidang/tampil", $this->data);
    }

    public function tambah()
    {
        if ($this->request->getPost()) {

```

```

        if (!$this->validate($this-
>validate_simpan())) {
            $this->data['validation'] =
$this->validator;
        } else {
            return $this->response-
DataJadwalSidangRepo::simpan([
                "id_jadwal_sidang" =>
$this->request-
>getPost("id_jadwal_sidang"),
                "id_mahasiswa" => $this-
>request->getPost("id_mahasiswa"),
                "id_doping" => $this-
>request->getPost("id_doping"),
                "tempat_kegiatan" =>
$this->request-
>getPost("tempat_kegiatan"),
                "waktu_kegiatan" =>
$this->request-
>getPost("waktu_kegiatan"),
                "jenis_kegiatan" => $this-
>request->getPost("jenis_kegiatan")
            ]);
        }
    }

    public function edit()
    {
        $proses = $this->request-
>getPostGet("proses");
        if ($this->request->getPost()) {
            if (!$this->validate($this-
>validate_edit())) {

```

```

        $this->data['validation'] =
$this->validator;

    } else {
        $where = [
            "id_jadwal_sidang" =>
$this->request-
>getPost("id_jadwal_sidang")
        ];
        $forms = [
            "id_mahasiswa" => $this-
>request->getPost("id_mahasiswa"),
            "id_doping" => $this-
>request->getPost("id_doping"),
            "tempat_kegiatan" =>
$this->request-
>getPost("tempat_kegiatan"),
            "waktu_kegiatan" =>
$this->request-
>getPost("waktu_kegiatan"),
            "jenis_kegaitan" => $this-
>request->getPost("jenis_kegaitan")
        ];

        DataJadwalSidangRepo::ubah(
            $where,
            $forms
        );
        \SweetAlert::alert_berhasil("Data
berhasil diubah");
        return $this->response-
>redirect(base_url(route_to("admin.dat
a_jadwal_sidang")));
    }
}

$this->data["data"] =
DataJadwalSidangRepo::detail($proses
);
return
view("admin/data_jadwal_sidang/edit"
, $this->data);
}

```

```

    } else {
        $this->data['datas'] =
DataJadwalSidangRepo::cetak_semua(
);
    }
    return
view("admin/data_jadwal_sidang/ceta
k", $this->data);
}

private function validate_edit()
{
    $rule = [
        'id_jadwal_sidang' =>
'required', 'id_mahasiswa' =>
'required', 'id_doping' => 'required',
'tempat_kegiatan' => 'required',
'waktu_kegiatan' => 'required',
'jenis_kegiatan' => 'required'
];
    return $rule;
}

public function cetak()
{
    $berdasarkan = $this->request-
>getPostGet("Berdasarkan");
    $isi = $this->request-
>getPostGet("isi");
    $tanggal1 = $this->request-
>getPostGet("tanggal1");
    $tanggal2 = $this->request-
>getPostGet("tanggal2");
    if ($berdasarkan) {
        if ($tanggal1) {
            $this->data['datas'] =
DataJadwalSidangRepo::cetak_berdas
arkan_tanggal($berdasarkan,
$tanggal1, $tanggal2);
        } else {
            $this->data['datas'] =
DataJadwalSidangRepo::cetak_berdas
arkan($berdasarkan, $isi);
        }
    }
}

```

```

        return $this->response-
        >redirect(base_url(route_to("admin.dat
        a_jadwal_sidang"))));
    }

    private function validate_simpan()
    {
        $rule = [
            'id_jadwal_sidang' =>
            'required', 'id_mahasiswa' =>
            'required', 'id_doping' => 'required',
            'tempat_kegiatan' => 'required',
            'waktu_kegiatan' => 'required',
            'jenis_kegiatan' => 'required'
        ];
        return $rule;
    }

    public function hapus($proses)
    {
        DataJadwalSidangRepo::hapus($prose
        s);
        $this->session-
        >setFlashData("pesan", "Data berhasil
        dihapus");
    }

    public function detail()
    {
        $proses = $this->request-
        >getPostGet("proses");
        $this->data['data'] =
        DataJadwalSidangRepo::detail($proses
        );
        return
        view("admin/data_jadwal_sidang/detai
        l", $this->data);
    }

    private function upload(string $key)
    {
        $file = $this->request-
        >getFile($key);
    }

```

```
    if (!$file->isValid()) {  
        return null;  
    }  
    $fileName = $file->getRandomName();  
    $file->move(PUBLIC_PATH .  
'uploads/', $fileName);  
    return $fileName;  
}  
}
```



# FAKULTAS SAINS DAN TEKNOLOGI UNIVERSITAS LABUHANBATU

## PROGRAM STUDI :

AGROTEKNOLOGI - TEKNOLOGI INFORMASI - SISTEM INFORMASI - MANAJEMEN INFORMATIKA

Jl. SM. Raja No. 126-A KM. 3,5 Aek Tapa - Rantauprapat - Sumatera Utara - Pos 21415  
Telp./Fax. (0624) 21901

Nomor : 071 /SI/FST-ULB/VI/2024  
Hal : Permohonan Izin Penelitian

Kepada Yth.  
**Dekan Fakultas Sains dan Teknologi**  
**Universitas Labuhanbatu**  
di -

Tempat

Sehubungan dengan rencana Penelitian untuk Skripsi/Tugas Akhir Mahasiswa Program Studi Sistem Informasi Fakultas Sains dan Teknologi tersebut dibawah ini :

Nama : **RUSWANTO**  
NPM : 2009100074  
Program Studi : S-1 Sistem Informasi  
Judul Tugas Akhir : Perancangan Sistem Informasi Bimbingan Skripsi Universitas Labuhanbatu Prodi Sistem Informasi Menggunakan Bahasa Pemrograman PHP Dengan Database My SQL  
Lokasi Penelitian : **Fakultas Sains dan Teknologi Universitas Labuhanbatu**

Untuk keperluan tersebut diatas, agar kiranya dapat memberi izin pelaksanaan penelitian di wilayah Bapak/Ibu. Dalam proses pelaksanaannya segala sesuatu yang berkaitan dengan penelitian tersebut akan diselesaikan oleh mahasiswa yang bersangkutan.

Demikian hal ini kami sampaikan atas perhatian dan bantuannya diucapkan terima kasih.

Rantauprapat, 26 Juni 2024  
Fakultas Sains dan Teknologi  
Ketua Program Studi Sistem Informasi



**Budianto Bangun, S.Sos., M.Kom**  
NIDN. 0124047003





# FAKULTAS SAINS DAN TEKNOLOGI UNIVERSITAS LABUHANBATU

## PROGRAM STUDI :

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Telp./Fax. (0624) 21901

Nomor : 561 /FST-ULB/VIII/2024  
Hal : Surat Balasan Izin Penelitian

Kepada Yth.  
Ketua Program Studi Sistem Informasi  
Fakultas Sains dan Teknologi  
Universitas Labuhanbatu  
di -  
Tempat

Dengan hormat,

Sesuai dengan surat permohonan dari Program Studi Sistem Informasi Fakultas Sains dan Teknologi Universitas Labuhanbatu yang kami terima pada tanggal 26 Juni 2024 mengenai permohonan tempat penelitian (Riset) atas nama :

Nama : RUSWANTO  
NPM : 2009100074  
Program Studi : S-1 Sistem Informasi  
Judul Tugas Akhir : Perancangan Sistem Informasi Bimbingan Skripsi Universitas Labuhanbatu Prodi Sistem Informasi Menggunakan Bahasa Pemrograman PHP Dengan Database My SQL

Dengan ini kami memberitahukan kepada bapak bahwasanya kami atas nama Fakultas Sains dan Teknologi Universitas Labuhanbatu menerima mahasiswa tersebut diatas untuk melakukan penelitian (Riset) di Fakultas kami.

Demikian surat ini kami sampaikan, atas perhatian dan kerjasamanya kami ucapkan terima kasih.

Rantauprapat, 5 Agustus 2024

Atas nama kami,  
Dekan Fakultas Sains dan Teknologi



Dr. Iwan Purnama, S.Kom., M.Kom  
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